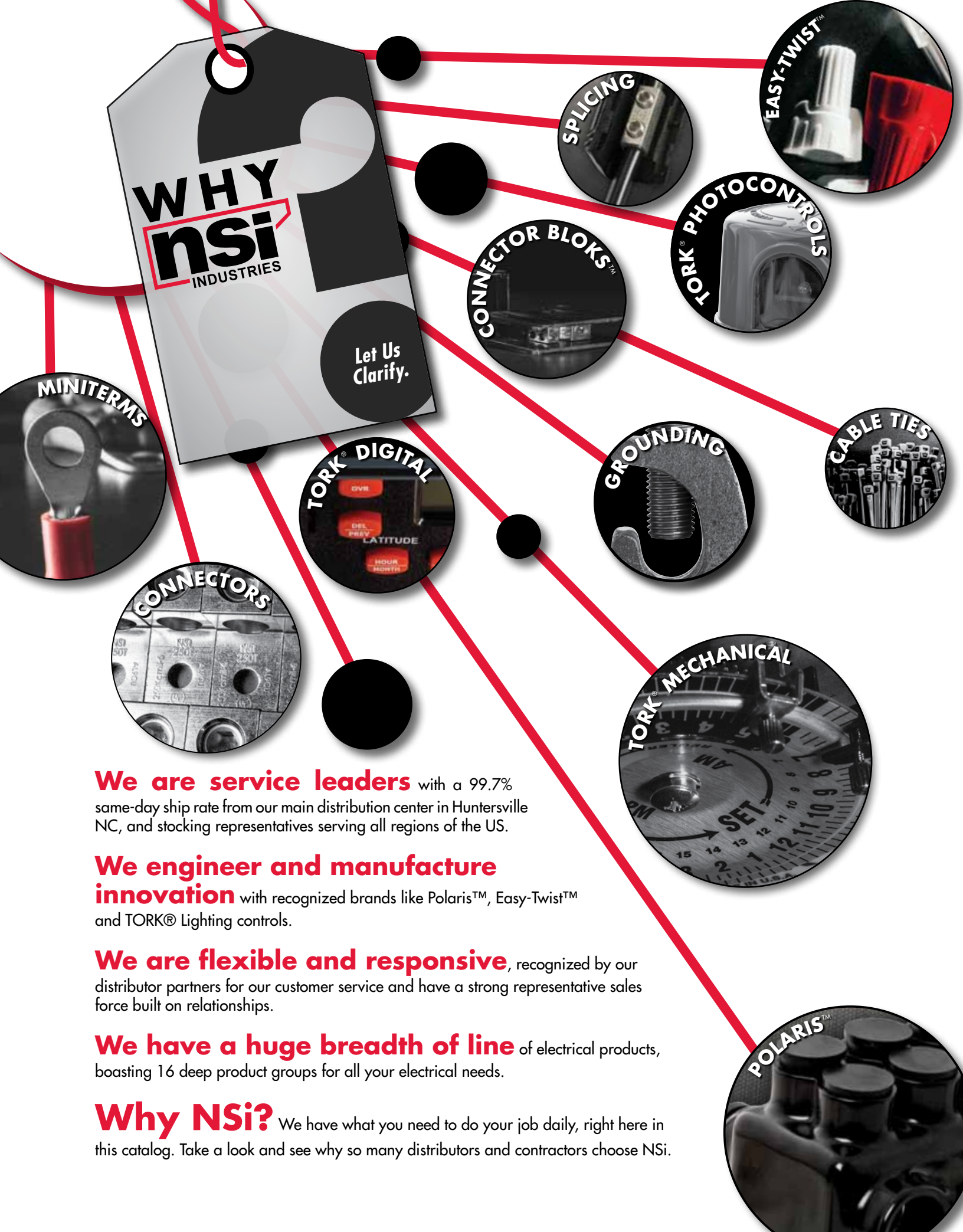
nsi INDUSTRIES

responsible energy




**TORK® POLARIS™ EASY-TWIST™**

**EASY-WRAP™ MINITERMS EASY-SPLICE™ EASY-TAP™ TORK*ALERT*™**




**We are service leaders** with a 99.7% same-day ship rate from our main distribution center in Huntersville NC, and stocking representatives serving all regions of the US.

**We engineer and manufacture innovation** with recognized brands like Polaris™, Easy-Twist™ and TORK® Lighting controls.

**We are flexible and responsive**, recognized by our distributor partners for our customer service and have a strong representative sales force built on relationships.

**We have a huge breadth of line** of electrical products, boasting 16 deep product groups for all your electrical needs.

**Why NSi?** We have what you need to do your job daily, right here in this catalog. Take a look and see why so many distributors and contractors choose NSi.

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# CONNECTORS

MECHANICAL CONNECTORS

# Aluminum Dual Rated Single & Double Lugs

T SERIES



## FEATURES

- Versatile and reusable set-screw connectors made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

## RATINGS

c UL us LISTED WIRE CONNECTOR

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

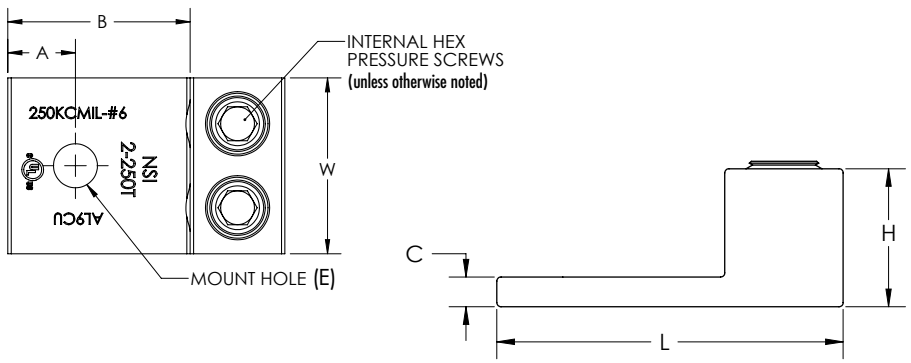
| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **6T** | 1 | 6-14 AWG |
| **4T** | 1 | 4-14 AWG |
| **2T** | 1 | 2-14 AWG |
| **0T** | 2 | 1/0-14 AWG |
| **2-0T** | 3 | 1/0-14 AWG |
| **2/0T** | 2 | 2/0-14 AWG |
| **2-2/0T** | 3 | (2) 2/0-14 AWG |
| **3/0T** | 2 | 3/0-6 AWG |
| **250T** | 2 | 250 MCM-6 AWG |
| **2-250T** | 3 | (2) 250 MCM-6 AWG |
| **300T** | 2 | 300 MCM - 6 AWG |
| **350T** | 2 | 350 MCM-6 AWG |
| **2-350T** | 3 | (2) 350 MCM-6 AWG |
| **500T** | 2 | 500 MCM - 4 AWG |
| **600T** | 2 | 600 MCM-2 AWG |
| **2-600T** | 3 | (2) 600 MCM-2 AWG |
| **800T** | 2 | 800-300 MCM |
| **2-800T** | 3 | (2) 800-300 MCM |
| **1000T** | 2 | 1000-350 MCM |
| **2-1000T** | 3 | (2) 1000-350 MCM |



| MTG. BOLT SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. HOLE DIA.(E) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/4 | 45 | Slotted | 0.265 | 1.060 | 0.500 | 0.500 | 0.250 | 0.690 | 0.100 | 100 |
| 1/4 | 45 | Slotted | 0.265 | 1.060 | 0.375 | 0.500 | 0.250 | 0.690 | 0.094 | 100 |
| 1/4 | 50 | Slotted | 0.265 | 1.160 | 0.500 | 0.550 | 0.310 | 0.690 | 0.100 | 100 |
| 1/4 | 120 | 3/16 | 0.265 | 1.470 | 0.630 | 0.790 | 0.440 | 0.850 | 0.190 | 50 |
| 1/4 | 120 | 3/16 | 0.265 | 1.470 | 1.130 | 0.790 | 0.440 | 0.850 | 0.190 | 50 |
| 1/4 | 120 | 3/16 | 0.265 | 1.470 | 0.630 | 0.790 | 0.440 | 0.850 | 0.190 | 50 |
| 1/4 | 120 | 3/16 | 0.265 | 1.470 | 1.250 | 0.790 | 0.440 | 0.850 | 0.190 | 50 |
| 1/4 | 250 | 3/16 | 0.265 | 1.875 | 0.700 | 0.890 | 0.500 | 0.850 | 0.145 | 50 |
| 5/16 | 330 | 5/16 | 0.328 | 2.000 | 0.880 | 1.020 | 0.470 | 1.130 | 0.220 | 24 |
| 5/16 | 330 | 5/16 | 0.328 | 2.560 | 1.630 | 1.020 | 0.630 | 1.690 | 0.220 | 10 |
| 5/16 | 330 | 5/16 | 0.328 | 2.000 | 0.880 | 1.130 | 0.500 | 1.000 | 0.250 | 24 |
| 3/8 | 400 | 5/16 | 0.406 | 2.250 | 0.990 | 1.130 | 0.500 | 1.250 | 0.250 | 20 |
| 3/8 | 400 | 5/16 | 0.406 | 2.880 | 1.920 | 1.130 | 0.630 | 1.880 | 0.250 | 8 |
| 3/8 | 550 | 3/8 | 0.406 | 2.750 | 1.200 | 1.410 | 0.630 | 1.630 | 0.310 | 6 |
| 3/8 | 550 | 3/8 | 0.406 | 3.180 | 1.380 | 1.510 | 0.630 | 1.930 | 0.380 | 6 |
| 1/2 | 550 | 3/8 | 0.531 | 3.180 | 2.410 | 1.510 | 0.630 | 1.930 | 0.380 | 4 |
| 1/2 | 550 | 1/2 | 0.531 | 3.250 | 1.440 | 1.690 | 0.630 | 1.880 | 0.440 | 6 |
| 1/2 | 550 | 1/2 | 0.531 | 3.250 | 2.750 | 1.690 | 0.880 | 1.880 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.531 | 3.250 | 1.690 | 1.880 | 0.750 | 1.750 | 0.440 | 6 |
| 1/2 | 600 | 9/16 | 0.531 | 3.250 | 3.190 | 1.880 | 0.880 | 1.750 | 0.440 | 2 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Panelboard Lugs

L SERIES



## FEATURES

- Panelboard style for multi-conductor with NEMA mounting hole spacing for turn-prevent and secureness.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

## RATINGS

c UL us LISTED WIRE CONNECTOR

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

All dimensional data is listed in inches.
All hole spacing is NEMA Std of 1.750"

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **250L2** | 1 | 250 MCM-6 AWG |
| **2-250L2** | 2 | (2) 250 MCM-6 AWG |
| **3-250L2/L4** | 3 | (3) 250 MCM-6 AWG |
| **350L2** | 1 | 350 MCM-6 AWG |
| **2-350L2** | 2 | (2) 350 MCM-6 AWG |
| **3-350L2/L4** | 3 | (3) 350 MCM-6 AWG |
| **600L2** | 1 | 600 MCM-2 AWG |
| **2-600L2** | 2 | (2) 600 MCM-2 AWG |
| **3-600L2/L4** | 3 | (3) 600 MCM-2 AWG |
| **800L2** | 1 | 800-350 MCM |
| **2-800L2** | 2 | (2) 800-350 MCM |
| **3-800L2/L4** | 3 | (3) 800-350 MCM |
| **1000L2** | 1 | 1000-500 MCM |
| **2-1000L2** | 2 | (2) 1000-500 MCM |
| **3-1000L2/L4** | 3 | (3) 1000-500 MCM |

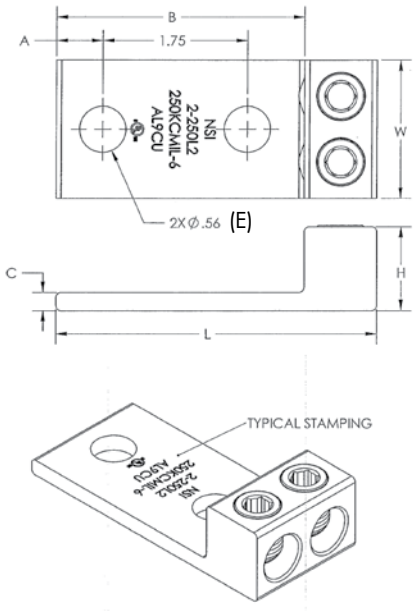




nsi INDUSTRIES



| MTG. BOLT SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. HOLE DIA. (E) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 330 | 5/16 | 0.560 | 4.310 | 0.880 | 1.380 | 0.560 | 3.090 | 0.310 | 15 |
| 1/2 | 330 | 5/16 | 0.560 | 3.880 | 1.690 | 1.020 | 0.560 | 3.010 | 0.220 | 6 |
| 1/2 | 330 | 5/16 | 0.560 | 3.880 | 2.500 | 1.020 | 0.560 | 3.010 | 0.220 | 3 |
| 1/2 | 400 | 5/16 | 0.560 | 4.310 | 0.990 | 1.380 | 0.630 | 3.090 | 0.310 | 8 |
| 1/2 | 400 | 5/16 | 0.560 | 4.250 | 1.920 | 1.130 | 0.630 | 3.250 | 0.250 | 4 |
| 1/2 | 400 | 5/16 | 0.560 | 4.250 | 2.920 | 1.130 | 0.630 | 3.250 | 0.250 | 2 |
| 1/2 | 550 | 3/8 | 0.560 | 4.650 | 1.380 | 1.510 | 0.630 | 3.400 | 0.380 | 4 |
| 1/2 | 550 | 3/8 | 0.560 | 4.650 | 2.406 | 1.510 | 0.630 | 3.400 | 0.380 | 3 |
| 1/2 | 550 | 3/8 | 0.560 | 4.650 | 3.930 | 1.510 | 0.630 | 3.400 | 0.380 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 4.750 | 1.440 | 1.690 | 0.630 | 3.380 | 0.440 | 4 |
| 1/2 | 550 | 1/2 | 0.560 | 4.750 | 2.750 | 1.690 | 0.630 | 3.380 | 0.440 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 4.750 | 4.060 | 1.690 | 0.630 | 3.380 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 4.940 | 1.690 | 1.880 | 0.630 | 3.440 | 0.440 | 4 |
| 1/2 | 600 | 1/2 | 0.560 | 4.940 | 3.190 | 1.880 | 0.630 | 3.440 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 4.940 | 4.690 | 1.880 | 0.630 | 3.440 | 0.440 | 2 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Panelboard Lugs

## L4, LL4, LL2 SERIES



## FEATURES

- Large size set-screw connectors with multiple mounting hole for a secure, turn-prevent connection.
- Made of 6061T-6 aluminum alloy.
- Tin plated for low contact resistance.
- For use with copper or aluminum conductors.

## RATINGS

LISTED
WIRE CONNECTOR
E155027

**TEMPERATURE RATING:**
90 °C.

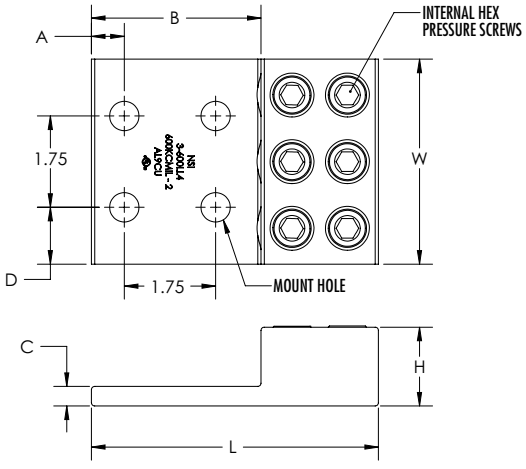
**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

All dimensional data is listed in inches.
All hole spacing is NEMA Std of 1.750"

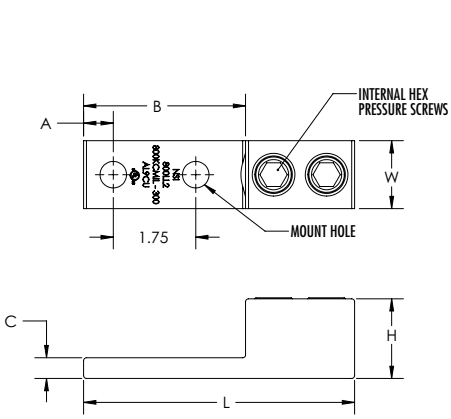
| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **4-250L4** | 1 | 250 MCM-6 AWG |
| **4-350L4** | 1 | 350 MCM-6 AWG |
| **4-600L4** | 1 | 600 MCM-2 AWG |
| **600LL2** | 2 | 600 MCM-2 AWG |
| **3-600LL4** | 3 | 600 MCM-2 AWG |
| **4-600LL4** | 4 | 600 MCM-2 AWG |
| **4-800L4** | 1 | 800-350 MCM |
| **800LL2** | 2 | 800-350 MCM |
| **3-800LL4** | 3 | 800-350 MCM |
| **4-800LL4** | 4 | 800-350 MCM |
| **4-1000L4** | 1 | 1000-500 MCM |
| **1000LL2** | 2 | 1000-500 MCM |
| **3-1000LL4** | 3 | 1000-500 MCM |
| **4-1000LL4** | 4 | 1000-500 MCM |
| **1500LL2*** | 2 | 1500-1000 MCM |

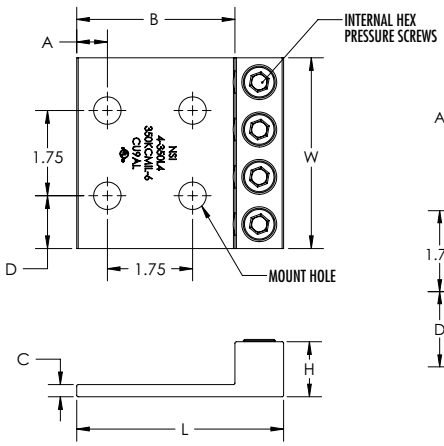
*1500LL2 is not CSA or UL approved.

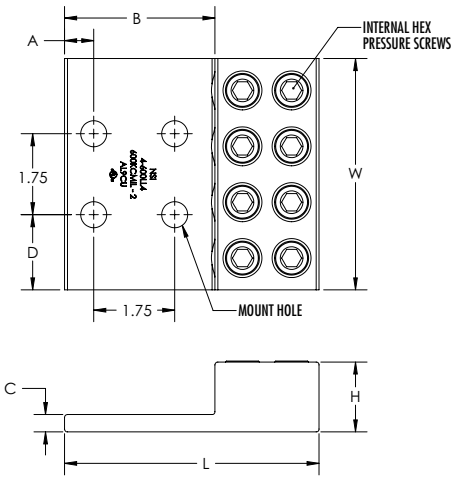




| MTG. BOLT SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. HOLE DIA. (E) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | END OF CONN. TO CTR. HOLE (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 330 | 5/16 | 0.560 | 3.880 | 3.300 | 1.020 | 0.560 | 3.010 | 0.220 | 3 |
| 1/2 | 400 | 5/16 | 0.560 | 4.250 | 3.920 | 1.130 | 0.630 | 3.250 | 0.250 | 2 |
| 1/2 | 550 | 3/8 | 0.560 | 4.650 | 5.000 | 1.510 | 0.630 | 3.400 | 0.380 | 2 |
| 1/2 | 550 | 3/8 | 0.560 | 5.500 | 1.380 | 1.510 | 0.630 | 3.250 | 0.380 | 4 |
| 1/2 | 550 | 3/8 | 0.560 | 5.500 | 3.930 | 1.510 | 0.630 | 3.250 | 0.380 | 2 |
| 1/2 | 550 | 3/8 | 0.560 | 5.500 | 5.000 | 1.510 | 0.630 | 3.250 | 0.380 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 4.750 | 5.380 | 1.690 | 0.630 | 3.380 | 0.440 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 5.750 | 1.440 | 1.690 | 0.630 | 3.440 | 0.440 | 4 |
| 1/2 | 550 | 1/2 | 0.560 | 5.750 | 4.060 | 1.690 | 0.630 | 3.380 | 0.440 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 5.750 | 5.380 | 1.690 | 0.630 | 3.440 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 4.940 | 6.190 | 1.880 | 0.630 | 3.440 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 6.190 | 1.690 | 1.880 | 0.630 | 3.630 | 0.440 | 4 |
| 1/2 | 600 | 9/16 | 0.560 | 6.190 | 4.690 | 1.880 | 0.630 | 3.440 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 6.180 | 6.190 | 1.880 | 0.630 | 3.630 | 0.440 | 2 |
| 1/2 | - | 9/16 | 0.560 | 6.625 | 2.000 | 1.975 | 0.650 | 3.175 | 0.750 | 4 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Stacked Lugs

T2 SERIES



## FEATURES

- Large size set-screw connectors with wire holes stacked on top of each other to minimize the width of the connector.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **300T-2** | 1 | (2) 300 MCM-6 AWG |
| **350T-2** | 2 | (2) 350 MCM-6 AWG |
| **600T-2** | 2 | (2) 600 MCM-2 AWG |
| **600T-3** | 3 | (3) 600 MCM-2 AWG |
| **600T-4** | 4 | (4) 600 MCM-2 AWG |
| **800T-2** | 2 | (2) 800-300 MCM |
| **800T-3** | 3 | (3) 800-300 MCM |
| **800T-4** | 4 | (4) 800-300 MCM |

## RATINGS

UL LISTED
WIRE CONNECTOR
E155027

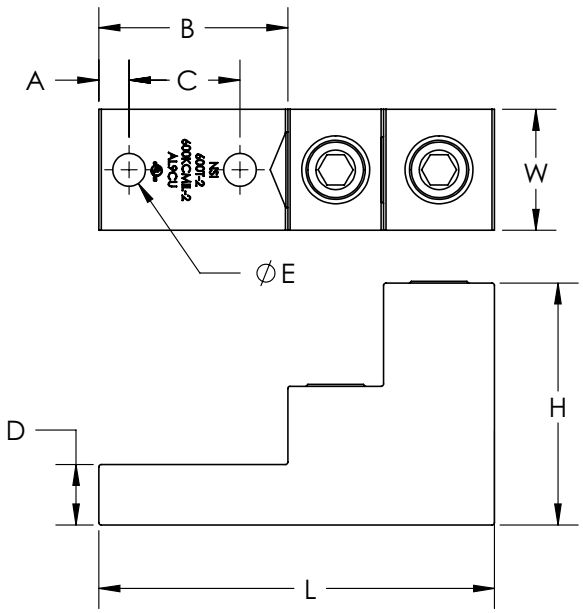
**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |



| MTG. BOLT SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. HOLE DIA. (E) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | END OF CONN. TO CTR. HOLE (A) | TANG LENGTH (B) | TANG THICKNESS (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 5/16" | 330 | 5/16 | 0.330 | 3.000 | 1.000 | 2.000 | 0.470 | 1.000 | 0.310 | 10 |
| 5/16" | 400 | 5/16 | .33 X .43 | 3.560 | 1.060 | 2.000 | 0.470 | 1.560 | 0.250 | 10 |
| 3/8 | 550 | 3/8 | 0.410 | 4.910 | 1.500 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 3/8 | 0.410 | 4.910 | 2.500 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 3/8 | 0.410 | 4.910 | 2.500 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 3/8 | 0.410 | 4.910 | 1.500 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 1/2 | 0.410 | 4.910 | 2.630 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 1/2 | 0.410 | 4.910 | 2.630 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Splicer/Reducers

SR SERIES



## FEATURES

- For splicing two copper or aluminum wires of equal or different sizes.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **2SR** | 1 | 2-14 AWG |
| **1/0SR** | 1 | 1/0-14 AWG |
| **4/0SR** | 1 | 4/0-6 AWG |
| **250SR** | 2 | 250 MCM-6 AWG |
| **350SR** | 2 | 350 MCM-6 AWG |
| **500SR** | 2 | 500 MCM-3/0 AWG |
| **750SR** | 2 | 750-250 MCM |

## RATINGS

LISTED
WIRE CONNECTOR

UL 486A/B Listed.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).

| 1 | 2 |
|---|---|
|  |  |





| TORQUE VALUE (IN./LBS.) | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| 50 | Slotted | 1.594 | 0.443 | 0.550 | 50 |
| 120 | Slotted | 1.500 | 0.530 | 0.630 | 25 |
| 250 | 5/16 | 2.310 | 0.812 | 1.000 | 24 |
| 330 | 5/16 | 4.094 | 0.812 | 1.000 | 10 |
| 400 | 3/8 | 4.190 | 1.130 | 1.190 | 8 |
| 550 | 3/8 | 5.000 | 1.380 | 1.500 | 3 |
| 550 | 3/8 | 6.250 | 1.630 | 1.750 | 3 |

FIG. 1

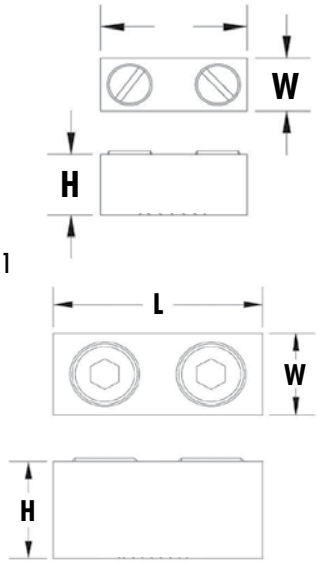
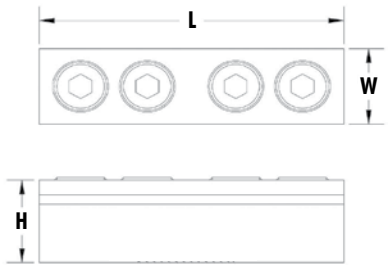



FIG. 2



MECHANICAL CONNECTORS

# Aluminum Dual Rated Turn-prevent Lugs

TP, BTP SERIES



## FEATURES

### DUAL RATED LUGS

- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

### ALUMINUM BOX LUGS WITH TURN-PREVENT

- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Design includes threaded mounting hole.

## RATINGS

**TEMPERATURE RATING:**
Single/Double TP Lugs: 90 °C.
Box TP Lugs: 75 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **2/0TP** | 1 | 2/0-14 AWG |
| **300TP** | 1 | 300 MCM-6 AWG |
| **350TP** | 1 | 350 MCM-6 AWG |
| **2-350TP** | 2 | (2) 350 MCM-6 AWG |
| **600TP** | 1 | 600 MCM-2 AWG |
| **2-600TP** | 2 | (2) 600 MCM-2 AWG |

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **BTP 0** | 3 | 0-10 AWG |
| **BTP 300** | 4 | 300 MCM-6 AWG |
| **S300** | 5 | 300 MCM-6 AWG |
| **BTP 350** | 6 | 350 MCM-6 AWG |

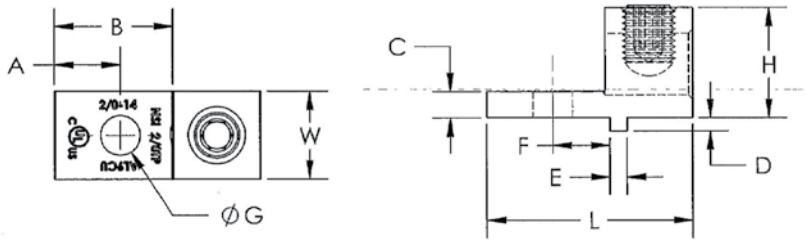
| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | **6** |
|  |  |  |



| LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | TURN PVT. LENGTH (D) | TURN PVT. THICKNESS (E) | MTG. HOLE TO TURN PVT. (F) | HOLE DIA. | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. BOLT SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.470 | 0.880 | 1.130 | 0.470 | 0.840 | 0.190 | 0.090 | 0.130 | 0.410 | 0.280 | 120 | 3/16 | 1/4 | 50 |
| 2.000 | 0.990 | 1.130 | 0.380 | 1.000 | 0.250 | 0.090 | 0.190 | 0.490 | 0.440 | 330 | 5/16 | 7/16 | 24 |
| 2.250 | 0.990 | 1.130 | 0.500 | 1.250 | 0.250 | 0.090 | 0.190 | 0.630 | 0.340 | 400 | 5/16 | 5/16 | 20 |
| 2.250 | 1.920 | 1.130 | 0.500 | 1.125 | 0.250 | 0.090 | 0.187 | 0.630 | 0.406 | 400 | 5/8 | 3/8 | 8 |
| 3.180 | 1.380 | 1.510 | 0.880 | 1.930 | 0.380 | 0.090 | 0.190 | 0.630 | 0.530 | 550 | 3/8 | 1/2 | 6 |
| 3.180 | 2.410 | 1.510 | 0.880 | 1.930 | 0.380 | 0.130 | 0.190 | 0.630 | 0.530 | 550 | 3/8 | 1/2 | 4 |

| TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | MTG. BOLT SIZE | WIDTH (A) | HEIGHT (B) | LENGTH (C) | MTG. HOLE DIA. (D) | TURN PVT. TO MTG. HOLE (X) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 120 | 0.312 | # 10 | 0.660 | 0.830 | 0.620 | # 10 | 0.230 | 25 |
| 325 | 0.375 | 1/4 | 0.970 | 1.160 | 0.980 | 0.250 | 0.385 | 40 |
| 325 | 0.375 | 1/4 | 0.880 | 1.090 | 0.880 | 0.250 | 0.312 | 25 |
| 375 | 0.375 | 1/4 | 0.880 | 1.100 | 0.880 | 0.250 | 0.440 | 48 |

**LUG WITH Turn-prevent**




**BOX LUGS**

FIG. 3

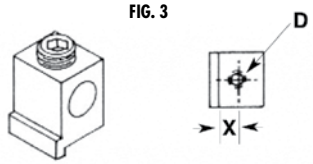



FIG. 6

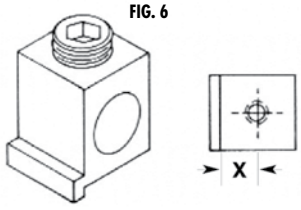



FIG. 4

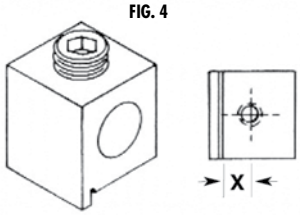
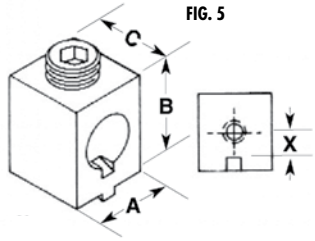



FIG. 5



MECHANICAL CONNECTORS

# Aluminum Dual Rated Lay-In & Dual Range Lugs

GLA, BS SERIES



## FEATURES

### DUAL RATED LAY-IN LUGS

- Lay-in connectors offer the ultimate in flexibility.
- Excellent for grounding and continuous loop applications.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

### DUAL RANGE LUGS

- Set-screw connectors that will accept either one or two wires.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **GLA-4** | 1 | 4-14 AWG |
| **GLA-0** | 1 | 1/0-8 AWG |
| **GLA-000** | 1 | 3/0-6 AWG |
| **GLA-250** | 2 | 250 MCM-6 AWG |
| **BS400T2** | 3 | (2) 250 MCM-1/0 AWG |
| | 3 | (4) 250 MCM-1/0 AWG |
| **BS400T** | 4 | (1) 600 MCM-4 AWG |
| | 4 | (2) 250 MCM-1/0 AWG |

## RATINGS

**TEMPERATURE RATING:**
Dual Rated Lay-In: 90 °C.
Dual Rated Dual Range: 90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

| 1 | 2 | 3 | 4 |
|---|---|---|---|
|  c UL us LISTED WIRE CONNECTOR |  701642 |  701642 LISTED WIRE CONNECTOR |  701642 LISTED WIRE CONNECTOR |



| TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | MTG. BOLT SIZE | LENGTH (A) | HEIGHT (B) | WIDTH (C) | MTG. HOLE DIA. (D) | TANG LENGTH (F) | TANG THICKNESS (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 45 | Slotted | 0.187 | 1.070 | 0.750 | 0.380 | 0.218 | 0.190 | 0.150 | 100 |
| 120 | Slotted | 0.250 | 1.500 | 1.100 | 0.600 | 0.272 | 0.300 | 0.220 | 40 |
| 250 | 0.250 | 0.375 | 2.000 | 1.500 | 0.800 | 0.330 | 0.400 | 0.300 | 20 |
| 330 | 0.250 | 0.375 | 2.200 | 1.700 | 0.800 | 0.330 | 0.400 | 0.300 | 20 |
| 500 | 0.375 | 0.250 | 3.812 | 2.000 | 2.468 | 0.281 | .325 | 0.375 | 4 |
| 500 | 0.375 | 0.250 | 3.812 | 2.000 | 2.468 | 0.281 | .325 | 0.375 | 4 |
| 500 | 0.375 | 0.562 | 2.810 | 1.810 | 1.380 | 0.625 | .725 | 0.312 | 6 |
| 500 | 0.375 | 0.562 | 2.810 | 1.810 | 1.380 | 0.625 | .725 | 0.312 | 6 |

**LAY-IN CONNECTORS**

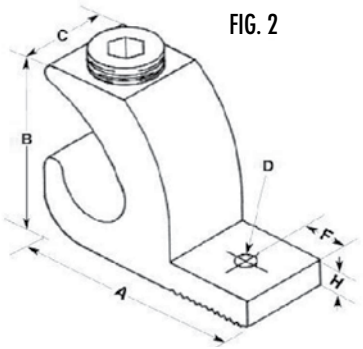



FIG. 2

**DUAL RANGE LUGS**

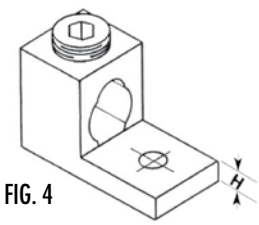



FIG. 4

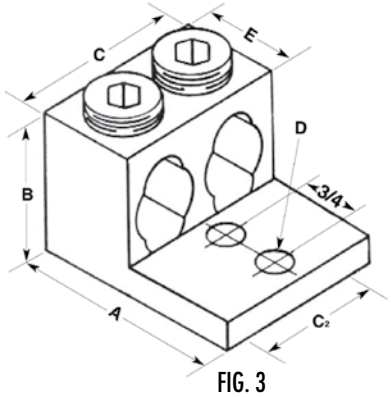



FIG. 3

MECHANICAL CONNECTORS

# Aluminum Dual Rated Tap Connector & Covers

## PARALLEL/"T" FORMAT

## GP, GC SERIES



## FEATURES

- Excellent for tapping of main conductor due to lay-in feature.
- Perpendicular tap allows for parallel or "T" tap configuration.
- Flexible cover allows for either parallel or "T" tap wire entry.
- Secure snap cover eliminates need for taping.
- Electro-tin plated for low contact resistance.

## RATINGS

LISTED
WIRE CONNECTOR
E155274

701642

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

| 1 | 2 |
|---|---|
|  |  |

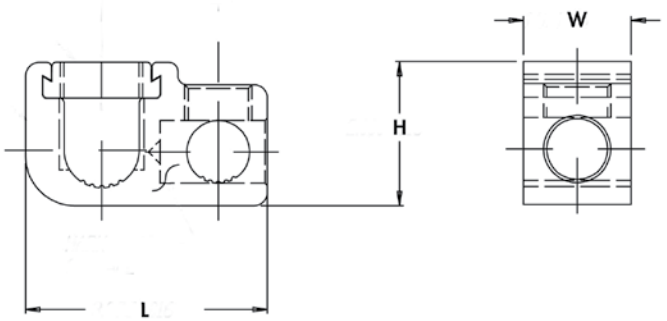
All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | STYLE |
|---|---|---|
| **GP-2** | 1 | Parallel "T" Tap |
| **GP-0** | 1 | Parallel "T" Tap |
| **GP-250-0** | 1 | Parallel "T" Tap |
| **GP-250** | 1 | Parallel "T" Tap |
| **GP-350** | 1 | Parallel "T" Tap |
| **GP-500** | 1 | Parallel "T" Tap |
| **GP-750** | 1 | Parallel "T" Tap |
| **GC-2** | 2 | Insulated Covers |
| **GC-0** | 2 | Insulated Covers |
| **GC-250** | 2 | Insulated Covers |
| **GC-350** | 2 | Insulated Covers |
| **GC-500** | 2 | Insulated Covers |
| **GC-750** | 2 | Insulated Covers |
| **GP-2WC** | 2 | Parallel "T" Tap with Cover |
| **GP-0WC** | 2 | Parallel "T" Tap with Cover |
| **GP-250-0WC** | 2 | Parallel "T" Tap with Cover |
| **GP-250WC** | 2 | Parallel "T" Tap with Cover |
| **GP-350WC** | 2 | Parallel "T" Tap with Cover |
| **GP-500WC** | 2 | Parallel "T" Tap with Cover |
| **GP-750WC** | 2 | Parallel "T" Tap with Cover |



| COLOR CODE | MAIN (RUN) WIRE RANGE | TAP WIRE RANGE | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| - | 2-12 STR | 4-14 STR | 50 | Slotted | 1.390 | 0.630 | 0.880 | 25 |
| - | 1/0-2 AWG | 1/0-14 AWG | 120 | 0.187 | 1.750 | 0.750 | 1.000 | 12 |
| - | 250 MCM-1/0 AWG | 1/0-14 AWG | 120<br>275 | 0.187, 0.312 | 2.030 | 1.060 | 1.310 | 12 |
| - | 250 MCM-1/0 AWG | 250 MCM-6 AWG | 275 | 0.312 | 2.280 | 1.060 | 1.310 | 12 |
| - | 350 MCM-4/0 AWG | 350 MCM-6 AWG | 275 | 0.312 | 2.560 | 1.250 | 1.440 | 6 |
| - | 500-350 MCM | 500-2 MCM | 375 | 0.375 | 3.130 | 1.380 | 1.750 | 6 |
| - | 750-500 MCM | 500-2 MCM | 375 | 0.375 | 3.380 | 1.500 | 2.000 | 3 |
| Yellow | - | - | - | 2.250 | 1.370 | 1.110 | 1.110 | 12 |
| Gray | - | - | - | 2.610 | 2.170 | 1.260 | 1.260 | 6 |
| Red | - | - | - | 3.440 | 3.180 | 1.630 | 1.630 | 3 |
| Yellow | - | - | - | 3.760 | 3.290 | 1.760 | 1.760 | 3 |
| Blue | - | - | - | 4.890 | 3.340 | 2.120 | 2.120 | 3 |
| Orange | - | - | - | 4.550 | 3.450 | 2.340 | 2.340 | 3 |
| Yellow | 2-12 STR | 4-14 STR | 50 | Slotted | 2.250 | 1.370 | 1.110 | 12 |
| Gray | 1/0-2 AWG | 1/0-14 AWG | 120 | 0.187 | 2.610 | 2.170 | 1.260 | 10 |
| Red | 250 MCM-1/0 AWG | 1/0-14 AWG | 120<br>275 | 0.187, 0.312 | 3.440 | 3.180 | 1.630 | 5 |
| Red | 250 MCM-1/0 AWG | 250 MCM-6 AWG | 275 | 0.312 | 3.440 | 3.180 | 1.630 | 5 |
| Yellow | 350 MCM-4/0 AWG | 350 MCM-6 AWG | 275 | 0.312 | 3.760 | 3.290 | 1.760 | 6 |
| Blue | 500-350 MCM | 500-2 MCM | 375 | 0.375 | 4.890 | 3.340 | 2.120 | 2 |
| Orange | 750-500 MCM | 500-2 MCM | 375 | 0.375 | 4.550 | 3.450 | 2.340 | 2 |

**PARALLEL OR "T" TAP CONNECTORS**



MECHANICAL CONNECTORS

# Aluminum Dual Rated Heavy Duty Transformer Lugs

## LL SERIES



## FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Two set-screws per wire hole ensure an exceptional connection.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Mounting hole spacing is NEMA 1¾" spacing is available with the following options: clear plating, anodized set-screws or disc pad screws – contact NSi Customer Service for ordering details.

## RATINGS

Meets or exceeds ANSI C119.4 Class A.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

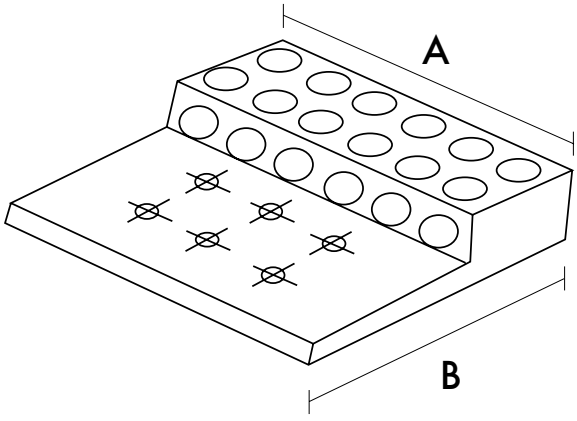
| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | **6** |
|  |  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **350LL2** | 1 | 350 MCM-6 AWG |
| **2-350LL4** | 2 | 350 MCM-6 AWG |
| **3-350LL4** | 3 | 350 MCM-6 AWG |
| **4-350LL6** | 4 | 350 MCM-6 AWG |
| **6-350LL8** | 5 | 350 MCM-6 AWG |
| **8-350LL8** | 6 | 350 MCM-6 AWG |
| **8-350LL10** | 6 | 350 MCM-6 AWG |
| **2-600LL4** | 2 | 600 MCM-2 AWG |
| **4-600LL6** | 4 | 600 MCM-2 AWG |
| **6-600LL6** | 6 | 600 MCM-2 AWG |
| **2-800LL4** | 2 | 800-300 MCM |
| **4-800LL8** | 4 | 800-300 MCM |
| **2-1000LL4** | 2 | 800-300 MCM |
| **4-1000LL8** | 4 | 1000-500 MCM |
| **8-1000LL12** | 6 | 1000-500 MCM |



| NO. OF CONDUCTORS | NO. OF MTG. HOLES | MTG. HOLE DIA. | MTG. HOLE SPACING | WRENCH SIZE | BOLT SIZE | LENGTH (B) (IN.) | WIDTH (A) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 1.130 | 1.380 | 1 |
| 2 | 4 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 2.000 | 1.380 | 1 |
| 3 | 4 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 2.940 | 1.380 | 1 |
| 4 | 6 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 3.870 | 1.380 | 1 |
| 6 | 8 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 5.750 | 1.380 | 1 |
| 8 | 8 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 7.620 | 1.380 | 1 |
| 8 | 10 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 7.620 | 1.380 | 1 |
| 2 | 4 | 0.563 | 1.750 | 3/8 | 1/2 | 5.875 | 2.410 | 1.562 | 1 |
| 4 | 6 | 0.563 | 1.750 | 3/8 | 1/2 | 5.875 | 4.780 | 1.562 | 1 |
| 6 | 6 | 0.563 | 1.750 | 3/8 | 1/2 | 8.750 | 5.750 | 1.750 | 1 |
| 2 | 4 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 2.737 | 1.875 | 1 |
| 4 | 8 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 5.487 | 1.875 | 1 |
| 2 | 4 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 2.982 | 1.875 | 1 |
| 4 | 8 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 5.982 | 1.875 | 1 |
| 8 | 12 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 11.982 | 1.875 | 1 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Transformer Lugs

T, L SERIES



## FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Two set-screws per wire hole ensure an exceptional connection.
- Electro-tin plated for low contact resistance. For use with copper or aluminum conductors.
- Mounting hole spacing is is NEMA 1¾".
- Also available with the following options: clear plating, anodized set-screws or disc pad screws – contact NSi Customer Service for ordering details.

## RATINGS

Meets or exceeds ANSI C119.4 Class A .

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **2-350T2** | 1 | 350 MCM-6 AWG |
| **3-350T2** | 2 | 350 MCM-6 AWG |
| **4-350T3** | 3 | 350 MCM-6 AWG |
| **6-350T4** | 4 | 350 MCM-6 AWG |
| **8-350T4** | 5 | 350 MCM-6 AWG |
| **2-350L4** | 6 | 350 MCM-6 AWG |
| **3-350L4** | 7 | 350 MCM-6 AWG |
| **4-350L6** | 8 | 350 MCM-6 AWG |
| **6-350L8** | 9 | 350 MCM-6 AWG |
| **8-350L8** | 10 | 350 MCM-6 AWG |
| **2-600L4** | 6 | 600 MCM-2 AWG |
| **3-600L4** | 7 | 600 MCM-2 AWG |
| **4-600L6** | 8 | 600 MCM-2 AWG |
| **6-600L8** | 9 | 600 MCM-2 AWG |

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
|  |  |  |  |  |
| **6** | **7** | **8** | **9** | **10** |
|  |  |  |  |  |





| NO. OF CONDUCTORS | NO. OF MTG. HOLES | MTG. HOLE DIA. | MTG. HOLE SPACING | WRENCH SIZE | MTG. BOLT SIZE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. PKG. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 1.940 | 1.250 | 1 |
| 3 | 2 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 2.840 | 1.250 | 1 |
| 4 | 3 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 3.750 | 1.250 | 1 |
| 6 | 4 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 4.660 | 1.250 | 1 |
| 8 | 4 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 5.560 | 1.250 | 1 |
| 2 | 4 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 2.000 | 1.380 | 1 |
| 3 | 4 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 2.940 | 1.380 | 1 |
| 4 | 6 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 3.870 | 1.380 | 1 |
| 6 | 8 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 5.750 | 1.380 | 1 |
| 8 | 8 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 7.620 | 1.380 | 1 |
| 2 | 4 | 0.563 | 1.750 | 3/8" | 1/2" | 4.500 | 2.410 | 1.630 | 1 |
| 3 | 4 | 0.563 | 1.750 | 3/8″ | 1/2″ | 4.500 | 3.590 | 1.630 | 1 |
| 4 | 6 | 0.563 | 1.750 | 3/8" | 1/2" | 4.500 | 4.780 | 1.630 | 1 |
| 6 | 8 | 0.563 | 1.750 | 3/8" | 1/2" | 4.500 | 7.160 | 1.630 | 1 |

MECHANICAL CONNECTORS

# Aluminum Dual Rated Transformer Connectors

## 2 HOLE NEMA PAD MOUNT

## STL SERIES



## FEATURES

- Made from 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- Two NEMA ½" holes for easy attachment.

## RATINGS

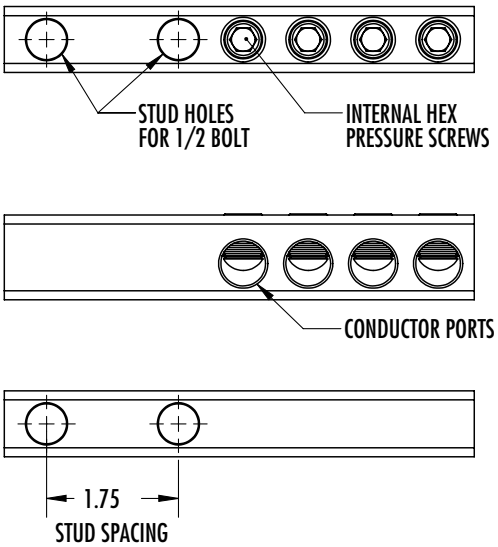
**VOLTAGE:**
600V max.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| **STL250-4** | 250 MCM-6 AWG |
| **STL250-6** | 250 MCM-6 AWG |
| **STL250-8** | 250 MCM-6 AWG |
| **STL350-4** | 350 MCM-6 AWG |
| **STL350-6** | 350 MCM-6 AWG |
| **STL350-8** | 350 MCM-6 AWG |
| **STL500-4** | 500 MCM-4 AWG |
| **STL500-6** | 500 MCM-4 AWG |
| **STL500-8** | 500 MCM-4 AWG |
| **STL750-4** | 750-250 MCM |
| **STL750-6** | 750-250 MCM |
| **STL750-8** | 750-250 MCM |



| NO. OF CONDUCTORS | MTG. HOLE DIA. | MTG. HOLE SPACING | TORQUE VALUE (IN./LBS.) | MTG. BOLT SIZE | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 0.560 | 1.750 | 330 | 1/2 | 5/16 | 6.240 | 0.875 | 1.125 | 6 |
| 6 | 0.560 | 1.750 | 330 | 1/2 | 5/16 | 7.960 | 0.875 | 1.125 | 6 |
| 8 | 0.560 | 1.750 | 330 | 1/2 | 5/16 | 9.680 | 0.875 | 1.125 | 6 |
| 4 | 0.560 | 1.750 | 400 | 1/2 | 5/16 | 6.960 | 1.000 | 1.440 | 6 |
| 6 | 0.560 | 1.750 | 400 | 1/2 | 5/16 | 9.060 | 1.000 | 1.440 | 6 |
| 8 | 0.560 | 1.750 | 400 | 1/2 | 5/16 | 11.160 | 1.000 | 1.440 | 6 |
| 4 | 0.560 | 1.750 | 550 | 1/2 | 5/16 | 7.500 | 1.130 | 1.630 | 6 |
| 6 | 0.560 | 1.750 | 550 | 1/2 | 5/16 | 9.740 | 1.130 | 1.630 | 6 |
| 8 | 0.560 | 1.750 | 550 | 1/2 | 5/16 | 12.030 | 1.130 | 1.630 | 6 |
| 4 | 0.560 | 1.750 | 550 | 1/2 | 3/8 | 8.570 | 1.440 | 2.000 | 3 |
| 6 | 0.560 | 1.750 | 550 | 1/2 | 3/8 | 11.420 | 1.440 | 2.000 | 3 |
| 8 | 0.560 | 1.750 | 550 | 1/2 | 3/8 | 14.280 | 1.440 | 2.000 | 3 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Secondary Transformer Connectors

## SFTZ SERIES



## FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Electro-tin plated for low contact resistance.
- For use on slip-fit or threaded transformers.
- For use with copper and aluminum conductors.
- Available with street light tap.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| **SFTZ350-6** | 350 MCM-6 AWG |
| **SFTZ350-8** | 350 MCM-6 AWG |
| **SFTZ500-6** | 500 MCM-6 AWG |
| **SOTZ350-6** | 350 MCM-6 AWG |
| **SOTZ350-8** | 350 MCM-6 AWG |
| **SOTZ500-6** | 500 MCM-6 AWG |
| **SOTZ500-8** | 500 MCM-6 AWG |

## RATINGS

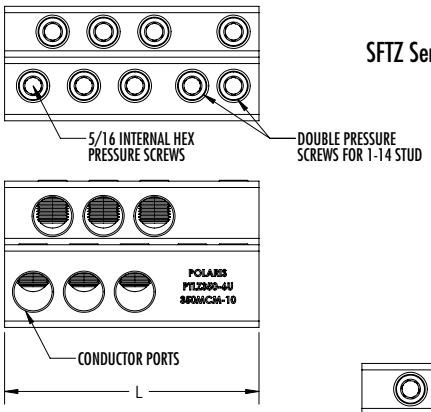
Meets or exceeds ANSI C119.4 Class A.

**TEMPERATURE RATING:**
90 °C.

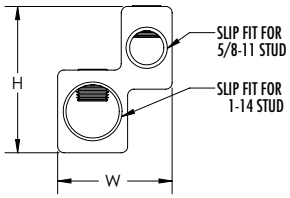
**VOLTAGE:**
600V max.

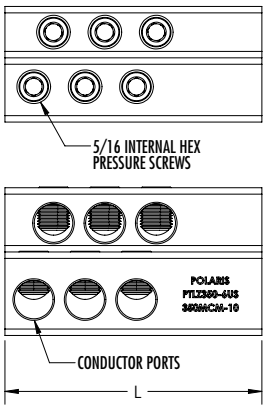


| TYPE | NO. OF CONDUCTORS | STUD SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| Slip Fit | 6 | 5/8-11, 1-14 | 400 | 5/16 | 5.000 | 2.250 | 2.880 | 1 |
| Slip Fit | 8 | 5/8-11, 1-14 | 400 | 5/16 | 6.000 | 2.250 | 2.880 | 1 |
| Slip Fit | 6 | 5/8-11, 1-14 | 450 | 5/16 | 5.550 | 2.250 | 2.880 | 1 |
| Screw On | 6 | 5/8-11, 1-14 | 400 | 5/16 | 5.000 | 2.250 | 2.880 | 1 |
| Screw On | 8 | 5/8-11, 1-14 | 400 | 5/16 | 6.000 | 2.250 | 2.880 | 1 |
| Screw On | 6 | 5/8-11, 1-14 | 450 | 5/16 | 5.550 | 2.250 | 2.880 | 1 |
| Screw On | 8 | 5/8-11, 1-14 | 450 | 5/16 | 6.680 | 2.250 | 2.880 | 1 |

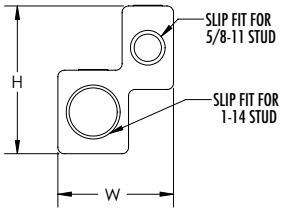



SFTZ Series




SOTZ Series



MECHANICAL CONNECTORS

# Aluminum Dual Rated Transformer Stud Connectors

TS SERIES



## FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Clear plated for low contact resistance; stud is tin plated copper which provides low contact resistance for connection to transformer.
- For use with copper and aluminum conductors.
- Also available with the following options: clear plating, anodized set-screws or disc pad screws – contact NSi Customer Service for ordering details.

## RATINGS

Meets or exceeds ANSI C119.4 Class A.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

**TS350-8**

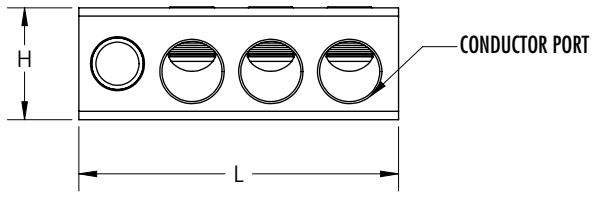


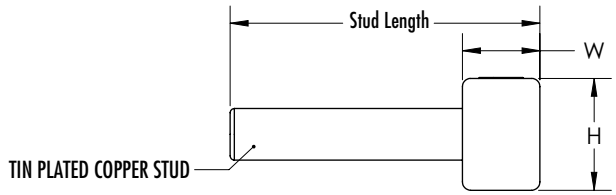
All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| **TS1/0-2** | 1/0-4 AWG |
| **TS1/0-4** | 1/0-4 AWG |
| **TS250-2** | 250 MCM-6 AWG |
| **TS250-3** | 250 MCM-6 AWG |
| **TS250-4** | 250 MCM-6 AWG |
| **TS250-8** | 250 MCM-6 AWG |
| **TS350-2** | 350 MCM-6 AWG |
| **TS350-2-12** | 350 MCM-6 AWG |
| **TS350-3** | 350 MCM-6 AWG |
| **TS350-4** | 350 MCM-6 AWG |
| **TS350-6** | 350 MCM-6 AEG |
| **TS350-8** | 350 MCM-6 AWG |
| **TS500-2** | 500 MCM-4 AWG |
| **TS500-3** | 500 MCM-4 AWG |
| **TS500-4** | 500 MCM-4 AWG |
| **TS750-2** | 750-250 MCM |
| **TS750-4** | 750-250 MCM |



| NO. OF CONDUCTORS | COPPER STUD DIA. | STUD LENGTH | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 2 | 0.375 | 3.00 | 180 | 5/16 | 2.030 | 0.630 | 0.880 | 1 |
| 4 | 0.375 | 3.00 | 180 | 5/16 | 2.680 | 0.880 | 0.880 | 1 |
| 2 | 0.500 | 4.00 | 360 | 5/16 | 2.590 | 0.880 | 1.130 | 1 |
| 3 | 0.500 | 4.00 | 360 | 5/16 | 3.460 | 0.880 | 1.130 | 1 |
| 4 | 0.500 | 4.00 | 360 | 5/16 | 4.320 | 0.880 | 1.130 | 1 |
| 8 | 0.500 | 4.00 | 360 | 5/16 | 7.770 | 0.880 | 1.130 | 1 |
| 2 | 0.625 | 4.00 | 400 | 5/16 | 2.950 | 0.880 | 1.250 | 1 |
| 2 | 0.500 | 4.00 | 400 | 5/16 | 2.950 | 0.880 | 1.250 | 1 |
| 3 | 0.625 | 4.00 | 400 | 5/16 | 3.950 | 0.880 | 1.250 | 1 |
| 4 | 0.625 | 4.00 | 400 | 5/16 | 4.950 | 0.880 | 1.250 | 1 |
| 6 | 0.625 | 4.00 | 400 | 5/16 | 6.950 | 0.880 | 1.250 | 1 |
| 8 | 0.625 | 4.00 | 400 | 5/16 | 8.950 | 0.880 | 1.250 | 1 |
| 2 | 0.750 | 4.50 | 450 | 5/16 | 4.650 | 1.130 | 1.630 | 1 |
| 3 | 0.750 | 4.50 | 450 | 5/16 | 5.790 | 1.130 | 1.630 | 1 |
| 4 | 0.750 | 4.50 | 450 | 5/16 | 6.940 | 1.130 | 1.630 | 1 |
| 2 | 0.750 | 5.50 | 550 | 5/16 | 4.040 | 1.250 | 1.750 | 1 |
| 4 | 0.750 | 5.50 | 550 | 5/16 | 6.720 | 1.250 | 1.750 | 1 |



MECHANICAL CONNECTORS

# Aluminum Flexible Cable Sleeves Connectors

FS SERIES



## FEATURES

- For use with fine-stranded and flexible wire.
- Made from copper tube and plated for corrosion resistance.
- Belled end allows for easy cable insertion.

## RATINGS

All dimensional data is listed in inches.

| CAT. NO. | SLEED LD. |
|---|---|
| **FS008** | 0.180 |
| **FS006** | 0.236 |
| **FS004** | 0.291 |
| **FS002** | 0.336 |
| **FS001** | 0.415 |
| | - |
| **FS010** | 0.500 |
| | - |
| **FS020** | 0.579 |
| | - |
| **FS030** | 0.657 |
| | - |
| **FS040** | 0.738 |
| | - |
| **FS350** | 0.798 |



| COMM. CABLE SIZE | APPROX. CONDUTOR DIAMETER | | | DIESEL LOCOMOTIVE | LENGTH (L) | USE WITH MECHANICAL CONN. SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| | COMM CABLE | CLASS M WELDING | CLASS H | | | | |
| 8 AWG | 0.146 | 0.162 | 0.167 | 0.140 | 0.4724 | 4 AWG | 100 |
| 6 AWG | 0.184 | 0.215 | 0.210 | 0.180 | 0.4724 | 4 AWG | 100 |
| 4 AWG | 0.232 | 0.269 | 0.266 | 0.240 | 0.4724 | 1/0 AWG | 50 |
| 2 AWG | 0.292 | - | - | 0.325 | 0.5906 | 1/0 AWG | 50 |
| 2 AWG | - | 0.337 | 0.335 | - | 0.7087 | 3/0 AWG | 25 |
| 1 AWG | 0.332 | 0.376 | 0.378 | 0.390 | - | - | - |
| 1/0 AWG | 0.373 | 0.423 | 0.424 | 0.420 | 0.8661 | 250 MCM | 25 |
| 2/0 AWG | 0.419 | - | 0.477 | 0.460 | - | - | - |
| 2/0 AWG | - | 0.508 | - | - | 0.9843 | 350 MCM | 25 |
| 3/0 AWG | 0.470 | - | 0.536 | 0.565 | - | - | - |
| 3/0 AWG | - | 0.576 | - | - | 1.1812 | 350 MCM | 12 |
| 4/0 AWG | 0.528 | - | 0.601 | 0.590 | - | - | - |
| 4/0 AWG | - | 0.645 | - | 0.660 (262.6) | 1.2598 | 500 MCM | 12 |
| 250 MCM | 0.575 | 0.713 | 0.653 | - | - | - | - |
| 300 MCM | 0.630 | 0.768 | 0.716 | 0.720 (313.1) | - | - | - |
| 350 MCM | 0.681 | - | 0.772 | 0.781 (313.7) | 1.2598 | 500 MCM | 12 |

MECHANICAL CONNECTORS

# Copper Single Lugs Extruded & Tubular

TC SERIES



## FEATURES

### COPPER SINGLE LUGS - CU - EXTRUDED STYLES

- Solid one-piece copper connector made from extruded copper for superior mechanical strength and excellent electrical performance.
- Steel screw.
- For use with copper wire only.

### COPPER SINGLE LUGS - CU - TUBULAR STYLES

- Copper connector made from tubular copper.
- Steel screw.
- For use with copper wire only.

## RATINGS

LISTED
WIRE CONNECTOR
E155274

701642

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed Wire Connectors.

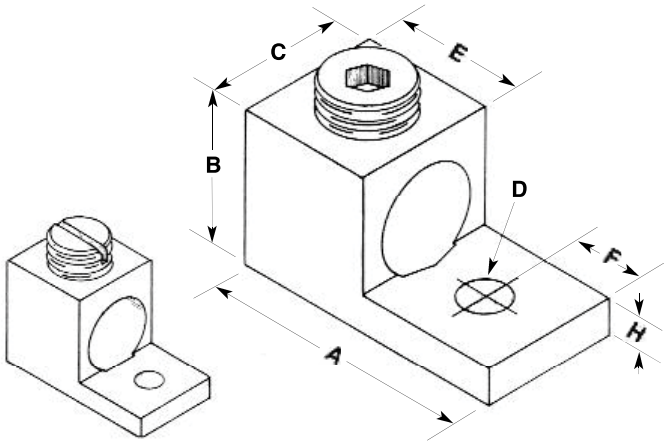
| 1 | 2 |
|---|---|
|  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **6TC** | 1 | 6-14 AWG |
| **4TC** | 1 | 4-14 AWG |
| **2TC** | 1 | 2-14 AWG |
| **0TC** | 1 | 1/0-14 AWG |
| **4/0TC** | 1 | 4/0-2 AWG |
| **6TC-1** | 2 | 6-14 AWG |
| **4TC-1** | 2 | 4-14 AWG |



| TORQUE VALUE | WRENCH SIZE | MTG. BOLT SIZE | LENGTH (A) | HEIGHT (B) | WIDTH (C) | MTG. HOLE DIA. (D) | DEPTH (E) | TANG LENGTH (F) | TANG THICKNESS (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 25 | Slotted | 3/16 | 1.020 | 0.400 | 0.375 | 0.193 | 0.370 | 0.187 | 0.115 | 100 |
| 25 | Slotted | 1/4 | 1.075 | 0.440 | 0.450 | 0.265 | 0.328 | 0.275 | 0.100 | 100 |
| 30 | Slotted | 1/4 | 1.125 | 0.484 | 0.458 | 0.265 | 0.475 | 0.325 | 0.125 | 100 |
| 40 | Slotted | 1/4 | 1.277 | 0.680 | 0.548 | 0.265 | 0.600 | 0.337 | 0.125 | 50 |
| 200 | 5/16" | 3/8 | 1.950 | 0.950 | 0.812 | 0.390 | 0.875 | 0.406 | 0.218 | 25 |
| 25 | Slotted | 3/16 | 0.995 | 0.778 | 0.345 | 0.203 | 0.375 | 0.226 | 0.610 | 100 |
| 45 | Slotted | 1/4 | 1.255 | 1.255 | 0.453 | 0.258 | 0.500 | 0.500 | 0.750 | 100 |



MECHANICAL CONNECTORS

# Copper Single/Double Solderless Lugs

DE SERIES



## FEATURES

- Made of 99.98% pure electrolytic copper.
- Steel-plated screws to prevent rusting.
- 25 to 70 ampere sizes have slotted head screws.
- Larger sizes have hex head screws.

## RATINGS

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.
UL 486 Listed.

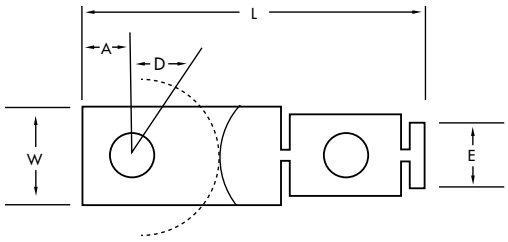
| 1 | 2 |
|---|---|
|  |  |

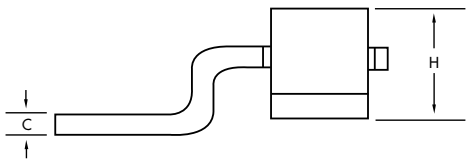
All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **DE703** | 1 | 10-14 AWG |
| **DE704** | 1 | 6-14 AWG |
| **DE705** | 1 | 2-8 AWG |
| **DE711** | 1 | 4-14 AWG |
| **DE706** | 1 | 1/0-6 AWG |
| **DE713** | 1 | 3/0-4 AWG |
| **DE707** | 1 | 4/0-2 AWG |
| **D899** | 2 | 4/0-2 AWG |
| **DE710** | 1 | 350 MCM-1/0 AWG |
| **DE708** | 1 | 500 MCM-4/0 AWG |
| **DE709** | 1 | 1000-600 MCM |



| MTG. BOLT SIZE | AMP RATING | TORQUE VALUE (IN./ (LBS.) | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/4 | 25 | 60 | Slotted | 1.025 | 0.315 | 0.465 | 0.195 | 0.069 | 0.160 | 100 |
| 3/16 | 35 | 90 | Slotted | 1.190 | 0.380 | 0.500 | 0.230 | 0.070 | 0.250 | 100 |
| 5/16 | 70 | 125 | Slotted | 1.550 | 0.500 | 0.650 | 0.250 | 0.090 | 0.340 | 100 |
| 1/4 | 70 | 90 | Slotted | 1.310 | 0.500 | 0.560 | 0.250 | 0.080 | 0.280 | 50 |
| 1/4 | 125 | 150 | Slotted | 1.970 | 0.630 | 0.880 | 0.500 | 0.130 | 0.280 | 25 |
| 3/8 | 175 | 200 | 3/8 | 2.190 | 0.750 | 1.030 | 0.440 | 0.130 | 0.500 | 18 |
| 1/2 | 225 | 200 | 7/32 | 2.380 | 1.000 | 1.170 | 0.470 | 0.130 | 0.560 | 15 |
| 5/8 | 450 | 200 | 5/8 | 3.200 | 1.502 | 1.720 | 0.915 | 0.190 | 0.405 | 6 |
| 3/4 | 300 | 250 | 3/4 | 3.025 | 0.998 | 2.310 | 0.450 | 0.186 | 0.403 | 10 |
| 15/16 | 400 | 300 | 15/16 | 4.320 | 1.497 | 2.200 | 0.840 | 0.190 | 0.403 | 2 |
| 3/8 | 650 | 400 | 3/8 | 4.360 | 1.998 | 2.870 | 1.080 | 0.254 | 0.530 | 2 |



MECHANICAL CONNECTORS

# Copper And Bronze Terminal Lugs

TL SERIES



## FEATURES

- Made from high conductivity copper alloy.
- Range taking.
- Re-usable.
- Fig.2-8 (below) made from high strength cast bronze.

## RATINGS

LISTED
WIRE CONNECTOR
E155274

**VOLTAGE:**
600V (2000V max. per UL486B).
UL486 Listed Wire Connector.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | MTG. BOLT SIZE |
|---|---|---|
| **TL8** | 1 | 3/16 |
| **TL4** | 1 | 1/4 |
| **TL1/0** | 1A | 5/16 |
| **TL1/0-L2** | 2 | 5/16 |
| **TL250** | 1A | 3/8 |
| **TL250-L2** | 2 | 3/8 |
| **TL250-2L2** | 3 | 1/2 |
| **TL250-3L2** | 5 | 1/2 |
| **TL250-4L2** | 7 | 1/2 |
| **TL500** | 1B | 1/2 |
| **TL500-L2** | 2 | 1/2 |
| **TL500-2L2** | 3 | 1/2 |
| **TL500-2L4** | 4 | 1/2 |
| **TL500-3L2** | 5 | 1/2 |
| **TL500-3L4** | 6 | 1/2 |
| **TL500-4L2** | 7 | 1/2 |
| **TL500-4L4** | 8 | 1/2 |
| **TL1000** | 1B | 1/2 |
| **TL1000-L2** | 2 | 1/2 |
| **TL1000-2L4** | 4 | 1/2 |
| **TL1000-3L4** | 6 | 1/2 |

| 1 | 1A | 1B | 2 |
|---|---|---|---|
|  |  |  |  |
| **3** | **4** | **5** | **6** |
|  |  |  |  |
| | | **7** | **8** |
| | |  |  |

CONNECTORS



nsi INDUSTRIES



| WIRE RANGE | MTG. HOLE DIA. | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 STR-14 SOL | 0.200 | 60 | Slotted | 0.815 | 0.390 | 0.400 | 0.150 | 0.467 | 0.080 | 100 |
| 4 STR - 14 SOL | 0.278 | 90 | Slotted | 1.125 | 0.537 | 0.553 | 0.248 | 0.617 | 0.096 | 100 |
| 1/0 STR - 4 SOL | 0.315 | 150 | 1/4 | 1.584 | 0.723 | 0.792 | 0.370 | 0.866 | 0.090 | 50 |
| 1/0 STR - 4 SOL | 0.360 | 150 | 1/4 | 2.670 | 0.775 | 0.895 | 0.388 | 1.908 | 0.183 | 40 |
| 250 MCM - 6 STR | 0.380 | 250 | 1/4 | 1.950 | 0.927 | 1.049 | 0.416 | 1.088 | 0.119 | 25 |
| 250 MCM - 1/0 STR | 0.403 | 250 | 1/4 | 2.996 | 1.103 | 1.025 | 0.424 | 1.890 | 0.246 | 15 |
| 300 MCM - 4/0 STR | 0.560 | 250 | 1/4 | 4.473 | 1.994 | 1.102 | 0.713 | 3.375 | 0.283 | 10 |
| 300 MCM - 4/0 STR | 0.560 | 250 | 5/8 | 4.472 | 3.058 | 1.838 | 0.600 | 3.255 | 0.362 | 4 |
| 300 MCM - 4/0 STR | 0.560 | 250 | 5/8 | 4.440 | 4.089 | 1.783 | 0.650 | 3.175 | 0.394 | 3 |
| 500 MCM - 4/0 STR | 0.525 | 300 | 3/8 | 2.986 | 1.375 | 1.456 | 0.750 | 1.640 | 0.303 | 10 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 1.375 | 2.154 | 0.625 | 3.000 | 0.344 | 6 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 2.500 | 2.055 | 0.625 | 3.000 | 0.375 | 6 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 3.000 | 2.055 | 0.625 | 3.000 | 0.375 | 4 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 2.500 | 2.150 | 0.625 | 3.000 | 0.375 | 3 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 3.625 | 2.150 | 0.625 | 3.000 | 0.375 | 3 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 4.187 | 2.150 | 0.625 | 3.000 | 0.375 | 2 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 4.187 | 2.150 | 0.625 | 3.000 | 0.375 | 2 |
| 1000 - 500 MCM | 0.557 | 400 | 3/8 | 3.992 | 1.985 | 1.945 | 0.742 | 2.245 | 0.356 | 4 |
| 1000 - 750 MCM | 0.562 | 400 | 7/8 | 4.875 | 1.875 | 2.887 | 0.625 | 3.000 | 0.500 | 4 |
| 1000 - 750 MCM | 0.570 | 400 | 7/8 | 5.045 | 3.630 | 2.900 | 0.620 | 3.270 | 0.517 | 2 |
| 1000 - 750 MCM | 0.570 | 400 | 7/8 | 6.045 | 3.630 | 2.900 | 0.620 | 3.270 | 0.517 | 2 |

MECHANICAL CONNECTORS

# Aluminum Dual Rated Parallel Groove Clamps

PAA, PAE SERIES



## FEATURES

- High strength aluminum extruded alloy fittings assembled with steel or anodized high strength aluminum flat washers for heavy duty service entrance or for use as heavy duty distribution armor rod clamps.
- Serrated grooves provide increased contact.
- Supplied pre-filled with oxide inhibitor.
- For galvanized steel hardware, add the suffix -SH to each part number.

## RATINGS

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

| 1 | 2 |
|---|---|
|  |  |

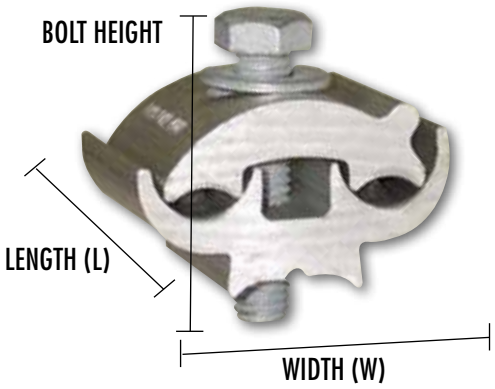
All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. |
|---|---|
| **PAA4** | 1 |
| **PAA5** | 1 |
| **PAA6** | 1 |
| **PAA10** | 1 |
| **PAA12** | 1 |
| **PAA29** | 1 |
| **PAA339** | 1 |
| **PAA49** | 1 |
| **PAA129** | 1 |
| **PAE2121-9** | 2 |
| **PAE4141-9** | 2 |



| MAIN | | TAP | | HEX/WRENCH SIZE | BOLT HEIGHT | WIDTH (W) | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| ACSR | AL/CU | ACSR | AL/CU | | | | | |
| 1/0-6 | 1/0 STR-6 SOL | 1/0-6 | 1/0 STR-6 SOL | 3/8 | 1.187 | 1.500 | 2.219 | 25 |
| 1/0-8 | 1/0 STR-8 SOL | 1/0-8 | 1/0 STR-8 SOL | 3/8 | 1.496 | 1.496 | 1.240 | 25 |
| 1/0-8 | 2/0 STR-8 SOL | 1/0-8 | 2/0 STR-8 SOL | 3/8 | 1.496 | 1.496 | 1.240 | 25 |
| 336.4-1/0 | 400-1/0 SOL | 1/0-8 | 1/0 STR-8 SOL | 3/8 | 2.000 | 1.750 | 2.469 | 12 |
| 4/0-2 | 4/0 STR-2 SOL | 4/0-2 | 4/0 STR-2 SOL | 1/2 | 2.000 | 2.000 | 2.250 | 12 |
| 2-6 | 2 STR-6 SOL | 2-6 | 2 STR-6 SOL | 5/16 | 1.094 | 1.375 | 1.813 | 25 |
| 1/0-6 | 1/0 STR-6 SOL | 1/0-6 | 1/0 STR-6 SOL | 3/8 | 1.250 | 1.500 | 1.563 | 25 |
| 1/0-6 | 1/0 STR-6 SOL | 1/0-6 | 1/0 STR-6 SOL | 3/8 | 2.219 | 1.500 | 1.187 | 25 |
| 4/0-2 | 4/0 STR-2 SOL | 4/0-2 | 4/0 STR-20L | 1/2 | 2.250 | 2.000 | 2.000 | 12 |
| 2/0-6 | 2/0 STR-6 SOL | 2/0-6 | 2/0 STR-6 SOL | 3/8 | 2.000 | 1.625 | 1.375 | 25 |
| 4/0-4 | 4/0 STR-2 SOL | 4/0-4 | 4/0 STR-2 SOL | 3/8 | 2.000 | 2.000 | 1.375 | 12 |

## TYPICAL



# Wedge & Hot-Line Clamps, Service Entrance Connector

## W, HLC, EC SERIES

## FEATURES

### ALUMINUM SERVICE WEDGE CLAMPS

- For dead-ending self-supporting drop wire.
- Saves conductor – drop wire may be cut to exact length.
- Can be attached to bare neutral in any point in the span.
- Adjustment in drop wire sag are easily made.
- Grips ACSR, AAAC or aluminum conductor.

### COPPER HOT LINE CLAMPS

- Clamping stem is manufactured from high strength silicon bronze.
- Saddle is made of high strength copper alloy, ensuring continued clamping force on the main conductor.
- Threads of clamping stem are protected to prevent damage due to arcing.
- Double coil stainless steel washer maintains continuous pressure on the main conductor.
- Retainer pin captivates the saddle for easy installation.

### SERVICE ENTRANCE CONNECTOR

- Body and screw are of high strength, corrosion resistant copper alloy, 600V.

## RATINGS

**SERVICE ENTRANCE CONNECTOR:**
Body and screw are of high strength, corrosion-resistant copper alloy.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL486A/B Listed Wire Connector.



| CAT. NO. |
|---|
| W62-1 |
| W62-1FC |
| W20-1 |
| W20-1FC |
| W40-1 |
| W40-1FC |



| CAT. NO. |
|---|
| HLC-2/0 |
| HLC-400 |



| CAT. NO. |
|---|
| EC12 |
| EC6 |
| EC4 |
| EC2 |



All dimensional data is listed in inches.

| WIRE RANGE | | | LENGTH | WIDTH | STD. |
|---|---|---|---|---|---|
| ACSR | ALUMINUM | AAAC | (L) | (W) | CTN. QTY. |
| 2-6 | 1 STR-6 SOL | 2-6 | 12.000 | 2.375 | 12 |
| 2-6 | 1 STR-6 SOL | 2-6 | 17.500 | FLEX | 12 |
| 1/0-4 | 2/0 STR-2 SOL | 1/0-4 | 12.500 | 2.375 | 8 |
| 1/0-4 | 2/0 STR-2 SOL | 1/0-4 | 18.500 | FLEX | 8 |
| 4/0-2/0 | 4/0 STR-2/0 SOL | 4/0-2/0 | 12.750 | 2.375 | 6 |
| 4/0-2/0 | 4/0 STR-2/0 SOL | 4/0-2/0 | 18.500 | FLEX | 6 |

| MAIN | | TAP | | LENGTH | WIDTH | HEIGHT | STD. |
|---|---|---|---|---|---|---|---|
| CONDUCTOR RANGE | WIRE DIAMETER | CONDUCTOR RANGE | WIRE DIAMETER | (L) | (W) | (H) | CTN. QTY. |
| 8 sol - 2/0 str | .128/.414 | 8 sol - 2/0 str | .128/.414 | 4.119 | 2.550 | 2.120 | 1 |
| 6 sol - 400MCM | .162/.745 | 8 sol - 4/0 str | .128/.547 | 4.716 | 2.900 | 1.348 | 1 |

| WIRE RANGE | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|
| 12 str | 35 | 1/4 | 100 |
| 6 str | 45 | 5/16 | 100 |
| 4 str | 45 | 3/8 | 100 |
| 2 str | 50 | 7/8 | 100 |

COMPRESSION CONNECTORS

# Aluminum Dual Rated One Hole Standard Barrel

AL SERIES



## FEATURES

- Produced from high conductivity aluminum tubing.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed.
- Consult factory for additional hole sizes.

## RATINGS

c UL us LISTED WIRE CONNECTOR

UL486A/B Listed.

UL Listed to 35kV when properly installed to cable manufacturers specifications

**TEMPERATURE RATING:**
90 °C.

**CRIMP TOOL:**
N1240,N12ID.

**VOLTAGE:**
600V (2000V Max. per UL486).

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| AL8-14 | 8 AWG | 8 AWG |
| AL6-14 | 6 AWG | 6-8 AWG |
| AL4-14 | 4 AWG | 4-6 AWG |
| AL4-38 | 4 AWG | 4-6 AWG |
| AL2-14 | 2 AWG | 2-6 AWG |
| AL2-38 | 2 AWG | 2-6 AWG |
| AL1-14 | 1 AWG | 1-6 AWG |
| AL1/0-38 | 1/0 AWG | 1/0-6 AWG |
| AL1/0-48 | 1/0 AWG | 1/0-6 AWG |
| AL2/0-38 | 2/0 AWG | 2/0-4 AWG |
| AL2/0-48 | 2/0 AWG | 2/0-4 AWG |
| AL3/0-38 | 3/0 AWG | 3/0-2 AWG |
| AL3/0-48 | 3/0 AWG | 3/0-2 AWG |
| AL4/0-38 | 4/0 AWG | 4/0-1 AWG |
| AL4/0-48 | 4/0 AWG | 4/0-1 AWG |
| AL250-48 | 250 MCM | 250 MCM-1/0 AWG |
| AL300-48 | 300 MCM | 300 MCM-2/0 AWG |
| AL350-48 | 350 MCM | 350MCM-3/0 AWG |
| AL400-48 | 400 MCM | 400MCM-4/0 AWG |
| AL500-48 | 500 MCM | 500-250 MCM |
| AL500-58 | 500 MCM | 500-250 MCM |
| AL600-48 | 600 MCM | 600-250 MCM |
| AL600-58 | 600 MCM | 600-250 MCM |
| AL750-48 | 750 MCM | 750-500 MCM |
| AL750-58 | 750 MCM | 750-500 MCM |
| AL1000-58 | 1000 MCM | – |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147

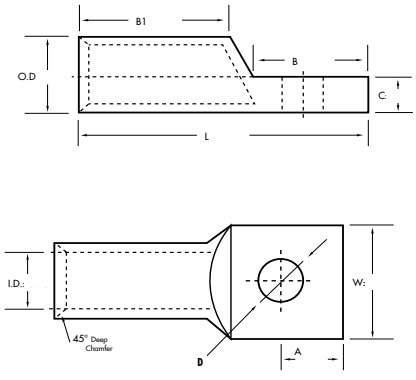




nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | BARREL O.D. | BARREL I.D. | LENGTH (L) | WIDTH (W) | TANG LENGTH (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Blue | 1/4 | 0.302 | 0.182 | 1.549 | 0.410 | 0.231 | 0.645 | 0.550 | 0.114 | 0.260 | 24 |
| Gray | 1/4 | 0.339 | 0.201 | 2.008 | 0.567 | 0.378 | 0.878 | 0.858 | 0.098 | 0.248 | 24 |
| Green | 1/4 | 0.441 | 0.252 | 2.307 | 0.567 | 0.378 | 0.878 | 1.098 | 0.189 | 0.248 | 24 |
| Green | 3/8 | 0.441 | 0.252 | 2.390 | 0.650 | 0.378 | 0.878 | 1.098 | 0.150 | 0.409 | 24 |
| Pink | 1/4 | 0.532 | 0.311 | 2.500 | 0.709 | 0.378 | 0.878 | 1.201 | 0.217 | 0.248 | 24 |
| Pink | 3/8 | 0.532 | 0.311 | 2.500 | 0.709 | 0.378 | 0.878 | 1.201 | 0.217 | 0.409 | 24 |
| Gold | 1/4 | 0.532 | 0.350 | 2.500 | 0.728 | 0.378 | 0.878 | 1.201 | 0.177 | 0.248 | 24 |
| Tan | 3/8 | 0.630 | 0.390 | 2.807 | 0.847 | 0.500 | 0.929 | 1.201 | 0.240 | 0.409 | 24 |
| Tan | 1/2 | 0.630 | 0.390 | 2.807 | 0.847 | 0.020 | 0.929 | 1.201 | 0.240 | 0.508 | 24 |
| Olive | 3/8 | 0.689 | 0.441 | 2.807 | 0.937 | 0.500 | 1.118 | 1.299 | 0.240 | 0.409 | 12 |
| Olive | 1/2 | 0.689 | 0.441 | 2.807 | 0.937 | 0.500 | 1.118 | 1.299 | 0.240 | 0.508 | 12 |
| Ruby | 3/8 | 0.760 | 0.480 | 3.000 | 1.028 | 0.500 | 1.118 | 1.402 | 0.280 | 0.409 | 12 |
| Ruby | 1/2 | 0.760 | 0.480 | 3.000 | 1.028 | 0.500 | 1.118 | 1.402 | 0.280 | 0.508 | 12 |
| White | 3/8 | 0.839 | 0.551 | 3.429 | 1.150 | 0.559 | 1.307 | 1.402 | 0.287 | 0.409 | 12 |
| White | 1/2 | 0.839 | 0.551 | 3.429 | 1.150 | 0.559 | 1.307 | 1.402 | 0.287 | 0.508 | 12 |
| Red | 1/2 | 0.921 | 0.591 | 3.500 | 1.260 | 0.630 | 1.307 | 1.500 | 0.319 | 0.508 | 12 |
| Blue | 1/2 | 1.012 | 0.650 | 4.000 | 1.370 | 0.630 | 1.500 | 1.598 | 0.347 | 0.508 | 6 |
| Brown | 1/2 | 1.118 | 0.721 | 4.248 | 1.520 | 0.689 | 1.500 | 1.902 | 0.390 | 0.508 | 6 |
| Green | 1/2 | 1.189 | 0.760 | 4.677 | 1.606 | 0.689 | 1.500 | 2.299 | 0.417 | 0.508 | 6 |
| Pink | 1/2 | 1.319 | 0.839 | 4.748 | 1.787 | 0.748 | 1.500 | 2.500 | 0.469 | 0.508 | 6 |
| Pink | 5/8 | 1.319 | 0.839 | 4.748 | 1.787 | 0.748 | 1.500 | 2.500 | 0.469 | 0.669 | 6 |
| Black | 1/2 | 1.441 | 0.921 | 5.118 | 1.957 | 0.748 | 1.870 | 2.598 | 0.508 | 0.508 | 3 |
| Black | 5/8 | 1.441 | 0.921 | 5.118 | 1.957 | 0.748 | 1.870 | 2.598 | 0.508 | 0.669 | 3 |
| Yellow | 1/2 | 1.598 | 1.032 | 6.118 | 2.189 | 0.937 | 2.000 | 3.201 | 0.547 | 0.508 | 3 |
| Yellow | 5/8 | 1.598 | 1.032 | 6.118 | 2.189 | 0.937 | 2.000 | 3.201 | 0.547 | 0.669 | 3 |
| Brown | 5/8 | 1.833 | 1.173 | 6.719 | 2.500 | 1.000 | 2.500 | 2.562 | 0.688 | 0.669 | 1 |



COMPRESSION CONNECTORS

# ALuminum Dual Rated Two Hole Standard Barrel

## AL-N SERIES



## FEATURES

- Produced from high conductivity aluminum tubing.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed.
- Consult factory for additional hole sizes.

## RATINGS

c UL us LISTED WIRE CONNECTOR

UL486A/B Listed.

UL Listed to 35kV when properly. installed to cable manufacturers specifications.

**TEMPERATURE RATING:**
90 °C.

**CRIMP TOOL:**
N1240,N12ID.

**VOLTAGE:**
600V (2000V Max. per UL486).

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **AL1/0N** | 1/0 AWG | 1/0-6 AWG |
| **AL2/0N** | 2/0 AWG | 2/0-4 AWG |
| **AL3/0N** | 3/0 AWG | 3/0-2 AWG |
| **AL4/0N** | 4/0 AWG | 4/0-1 AWG |
| **AL250N** | 250 MCM | 250 MCM-1/0 AWG |
| **AL300N** | 300 MCM | 300 MCM-2/0 AWG |
| **AL350N** | 350 MCM | 350MCM-3/0 AWG |
| **AL400N** | 400 MCM | 400MCM-4/0 AWG |
| **AL500N** | 500 MCM | 500-250 MCM |
| **AL600N** | 600 MCM | 600-250 MCM |
| **AL750N** | 750 MCM | 750-500 MCM |
| **AL1000N** | 1000 MCM | – |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147

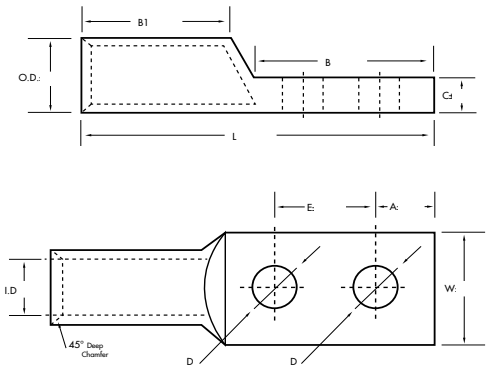




nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | MTG. HOLE SPACING (E) | O.D. | I.D. | LENGTH (L) | WIDTH (W) | TANG LENGTH (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tan | 1/2 | 1.750 | 0.630 | 0.390 | 4.748 | 0.847 | 0.630 | 3.118 | 1.201 | 0.240 | 0.508 | 12 |
| Olive | 1/2 | 1.750 | 0.690 | 0.440 | 4.799 | 0.937 | 0.630 | 3.118 | 1.299 | 0.240 | 0.508 | 12 |
| Ruby | 1/2 | 1.750 | 0.760 | 0.480 | 5.000 | 1.028 | 0.630 | 3.118 | 1.402 | 0.280 | 0.508 | 12 |
| White | 1/2 | 1.750 | 0.840 | 0.550 | 5.248 | 1.150 | 0.630 | 3.118 | 1.402 | 0.287 | 0.508 | 12 |
| Red | 1/2 | 1.750 | 0.920 | 0.590 | 5.307 | 1.260 | 0.630 | 3.118 | 1.500 | 0.319 | 0.508 | 12 |
| Blue | 1/2 | 1.750 | 1.010 | 0.650 | 5.500 | 1.370 | 0.630 | 3.118 | 1.598 | 0.347 | 0.508 | 6 |
| Brown | 1/2 | 1.750 | 1.120 | 0.720 | 5.870 | 1.520 | 0.630 | 3.118 | 1.902 | 0.390 | 0.508 | 6 |
| Green | 1/2 | 1.750 | 1.190 | 0.760 | 6.429 | 1.606 | 0.630 | 3.118 | 2.299 | 0.417 | 0.508 | 6 |
| Pink | 1/2 | 1.750 | 1.320 | 0.840 | 6.500 | 1.787 | 0.630 | 3.118 | 2.500 | 0.469 | 0.508 | 6 |
| Black | 1/2 | 1.750 | 1.440 | 0.920 | 6.748 | 1.957 | 0.630 | 3.118 | 2.598 | 0.508 | 0.508 | 3 |
| Yellow | 1/2 | 1.750 | 1.600 | 1.030 | 7.370 | 2.189 | 0.630 | 3.118 | 3.201 | 0.547 | 0.508 | 3 |
| Brown | 1/2 | 1.750 | 1.831 | 1.170 | 7.437 | 2.500 | 0.750 | 3.219 | 2.562 | 0.687 | 0.508 | 1 |



COMPRESSION CONNECTORS

# Dual Rated Aluminum Splice

## ASC-T SERIES



## FEATURES

- Produced from high conductivity aluminum tubing.
- Center stop assures proper cable installation.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed.
- Consult factory for additional hole sizes.

## RATINGS

c UL us LISTED WIRE CONNECTOR

UL486A/B Listed.

UL Listed to 35kV when properly. installed to cable manufacturers specifications.

**TEMPERATURE RATING:**
90 °C.

**CRIMP TOOL:**
N1240,N12ID.

**VOLTAGE:**
600V (2000V Max. per UL486).

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| ASC8T | 8 AWG |
| ASC6T | 6 AWG |
| ASC4T | 4 AWG |
| ASC2T | 2 AWG |
| ASC1T | 1 AWG |
| ASC1/0T | 1/0 AWG |
| ASC2/0T | 2/0 AWG |
| ASC3/0T | 3/0 AWG |
| ASC4/0T | 4/0 AWG |
| ASC250T | 250 MCM |
| ASC300T | 300 MCM |
| ASC350T | 350 MCM |
| ASC400T | 400 MCM |
| ASC500T | 500 MCM |
| ASC600T | 600 MCM |
| ASC750T | 750 MCM |
| ASC1000T | 1000 MCM |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool. UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147

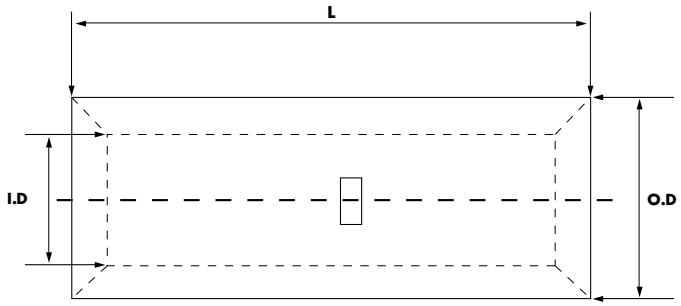




nsi INDUSTRIES



| EXPANDED WIRE RANGE* | COLOR CODE | O.D. | I.D. | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| 8 AWG | Blue | 0.297 | 0.146 | 1.750 | 100 |
| 6-8 AWG | Gray | 0.339 | 0.197 | 1.630 | 24 |
| 4-6 AWG | Green | 0.437 | 0.248 | 2.000 | 24 |
| 2-6 AWG | Pink | 0.528 | 0.307 | 2.378 | 24 |
| 1-6 AWG | Gold | 0.528 | 0.347 | 2.378 | 24 |
| 1/0-6 AWG | Tan | 0.630 | 0.390 | 2.500 | 24 |
| 2/0-4 AWG | Olive | 0.689 | 0.440 | 2.630 | 12 |
| 3/0-2 AWG | Ruby | 0.760 | 0.480 | 2.878 | 12 |
| 4/0-1 AWG | White | 0.839 | 0.550 | 3.130 | 12 |
| 250 MCM-1/0 AWG | Red | 0.920 | 0.590 | 3.248 | 12 |
| 300 MCM-2/0 AWG | Blue | 1.010 | 0.650 | 3.248 | 6 |
| 350MCM-3/0 AWG | Brown | 1.120 | 0.720 | 3.878 | 6 |
| 400MCM-4/0 AWG | Green | 1.190 | 0.760 | 4.878 | 6 |
| 500-250 MCM | Pink | 1.320 | 0.840 | 5.000 | 6 |
| 600-250 MCM | Black | 1.440 | 0.920 | 5.130 | 6 |
| 750-500 MCM | Yellow | 1.600 | 1.030 | 5.378 | 3 |
| – | Brown | 1.844 | 1.153 | 5.250 | 3 |



COMPRESSION CONNECTORS

# Bi-Metallic Pin Terminals

PT SERIES



## FEATURES

- Designed to facilitate termination of aluminum conductors.
- Pin: Stranded copper, tin plated.
- Supplied with PVC insulating cover.
- Connector bores are coated with oxide inhibitor.

## RATINGS

c UL us LISTED WIRE CONNECTOR

UL 486A/B Listed.

**TEMPERATURE RATING:**
90 °C.

**RATING:**
600V.

**CRIMP TOOL:**
N1240.

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| PT6 | 6 AWG |
| PT4 | 4 AWG |
| PT2 | 2 AWG |
| PT1 | 1 AWG |
| PT1/0 | 1/0 AWG |
| PT2/0 | 2/0 AWG |
| PT3/0 | 3/0 AWG |
| PT4/0 | 4/0 AWG |
| PT250 | 250 MCM |
| PT300 | 300 MCM |
| PT350 | 350 MCM |
| PT400 | 400 MCM |
| PT500 | 500 MCM |
| PT600 | 600 MCM |
| PT750 | 750 MCM |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool. UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147

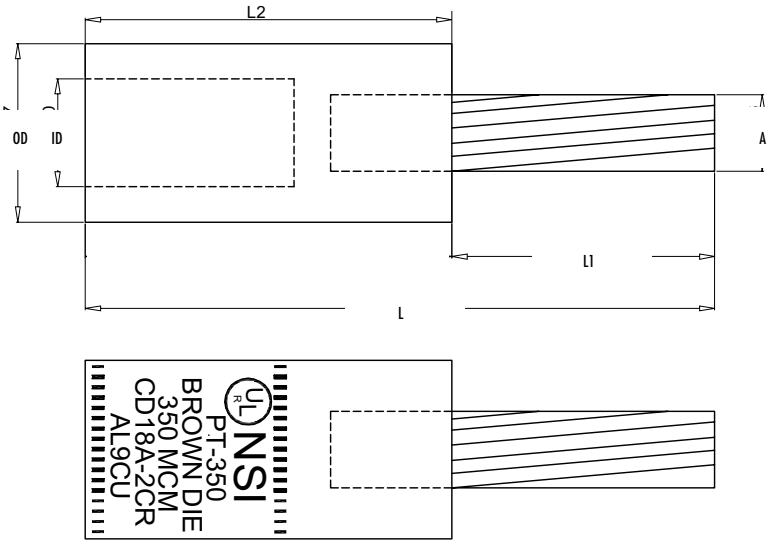




nsi INDUSTRIES



| COLOR CODE | PIN SIZE | O.D. | I.D. | PIN DIA. (A) | LENGTH (L) | PIN LENGTH (L1) | BODY LENGTH (L2) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | #8 | 0.639 | 0.186 | 0.144 | 2.125 | 0.875 | 1.250 | 25 |
| Tan | #6 | 0.630 | 0.236 | 0.188 | 2.450 | 0.913 | 1.540 | 25 |
| Tan | #4 | 0.641 | 0.311 | 0.228 | 2.440 | 0.913 | 1.527 | 25 |
| Tan | #3 | 0.630 | 0.350 | 0.279 | 2.539 | 1.003 | 1.530 | 10 |
| Tan | #2 | 0.900 | 0.366 | 0.287 | 3.405 | 1.259 | 2.140 | 10 |
| White | #1 | 0.900 | 0.429 | 0.322 | 3.342 | 1.251 | 2.090 | 10 |
| White | 1/0 | 0.900 | 0.484 | 0.362 | 3.598 | 1.456 | 2.140 | 10 |
| White | 2/0 | 0.900 | 0.547 | 0.405 | 3.523 | 1.464 | 2.050 | 10 |
| Brown | 3/0 | 1.160 | 0.653 | 0.440 | 3.858 | 1.551 | 2.300 | 10 |
| Brown | 4/0 | 1.160 | 0.653 | 0.523 | 4.086 | 1.696 | 2.389 | 10 |
| Brown | 4/0 | 1.157 | 0.700 | 0.496 | 4.082 | 1.704 | 2.377 | 10 |
| Pink | 250 | 1.330 | 0.759 | 0.582 | 4.362 | 1.984 | 2.377 | 10 |
| Pink | 350 | 1.330 | 0.759 | 0.681 | 4.192 | 1.842 | 2.350 | 10 |
| Yellow | 350 | 1.503 | 0.921 | 0.688 | 4.960 | 1.897 | 3.051 | 3 |
| Yellow | 500 | 1.500 | 1.015 | 0.787 | 5.007 | 2.003 | 3.015 | 3 |



COMPRESSION CONNECTORS

# Dual Rated Pin Terminals

PTS, PTO SERIES



## FEATURES

### SOLID PIN TERMINALS - PTS SERIES

All-aluminum pin terminal designed for termination of both aluminum and copper conductors. The pin is solid aluminum. The connector is tin plated to provide low contact resistance and oxidation protection. Connector is pre-filled with Oxide Inhibitor and capped with color coded cap indicating color of die to use. A cover is provided for quick installation.

### SOLID PIN TERMINALS - PTO SERIES

All-aluminum pin terminal designed for termination of both aluminum and copper conductors. In addition to above the PTO Series provides an offset termination pin. Pin is offset for use in tight applications while providing ease of installation in side by side applications. The solid pin is made of aluminum and is tin-plated and pre-filled with oxide inhibitor. Great for paralleling cable. A cover is provided for quick insulation.

## RATINGS

c UL us LISTED WIRE CONNECTOR ADAPTER

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V.
**CRIMP TOOL:**
N1240.

| 1 | 2 |
|---|---|
|  |  |

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | FIG NO. |
|---|---|---|
| **PTS6** | 6 STR | 1 |
| **PTS4** | 4 STR | 1 |
| **PTS2** | 2 STR | 1 |
| **PTS1** | 1 STR | 1 |
| **PTS1/0** | 1/0 STR | 1 |
| **PTS2/0** | 2/0 STR | 1 |
| **PTS3/0** | 3/0 STR | 1 |
| **PTS4/0** | 4/0 STR | 1 |
| **PTS250** | 250 MCM | 1 |
| **PTS300** | 300 MCM | 1 |
| **PTS350** | 350 MCM | 1 |
| **PTS400** | 400 MCM | 1 |
| **PTS500** | 500 MCM | 1 |
| **PTS600** | 600 MCM | 1 |
| **PTS750** | 750 MCM | 1 |
| **PTO-2/0** | 2/0 AWG | 2 |
| **PTO-3/0** | 3/0 AWG | 2 |
| **PTO-4/0** | 4/0 AWG | 2 |
| **PTO-250** | 250 MCM | 2 |
| **PTO-300** | 300 MCM | 2 |
| **PTO-350** | 350 MCM | 2 |
| **PTO-400** | 400 MCM | 2 |
| **PTO-500** | 500 MCM | 2 |
| **PTO-600** | 600 MCM | 2 |
| **PTO-750** | 750 MCM | 2 |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147**





nsi INDUSTRIES



| COLOR CODE | PIN SIZE | O.D. | I.D. | PIN DIA. (A) | LENGTH (L) | PIN LENGTH (L1) | BODY LENGTH (L2) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| Tan | 4 | 0.598 | 0.220 | 0.240 | 1.850 | 0.681 | 1.169 | 25 |
| Tan | 4 | 0.598 | 0.236 | 0.240 | 1.850 | 0.681 | 1.169 | 25 |
| Tan | 4 | 0.598 | 0.299 | 0.240 | 1.840 | 0.680 | 1.160 | 25 |
| Tan | 3 | 0.598 | 0.318 | 0.250 | 1.990 | 0.830 | 1.160 | 10 |
| Tan | 2 | 0.598 | 0.370 | 0.290 | 1.990 | 0.830 | 1.160 | 10 |
| White | 1 | 0.850 | 0.429 | 0.330 | 2.200 | 0.830 | 1.370 | 10 |
| White | 1/0 | 0.850 | 0.476 | 0.370 | 2.590 | 1.220 | 1.370 | 10 |
| White | 2/0 | 0.850 | 0.535 | 0.420 | 2.590 | 1.220 | 1.370 | 10 |
| Brown | 3/0 | 1.090 | 0.594 | 0.460 | 2.620 | 1.220 | 1.400 | 10 |
| Brown | 4/0 | 1.090 | 0.653 | 0.530 | 2.730 | 1.330 | 1.400 | 10 |
| Brown | 250 | 1.090 | 0.716 | 0.570 | 2.730 | 1.330 | 1.400 | 10 |
| Pink | 300 | 1.310 | 0.763 | 0.620 | 3.070 | 1.590 | 1.480 | 10 |
| Pink | 350 | 1.310 | 0.826 | 0.680 | 3.070 | 1.590 | 1.480 | 10 |
| Yellow | 400 | 1.460 | 0.921 | 0.720 | 3.670 | 1.640 | 2.030 | 3 |
| Yellow | 500 | 1.460 | 1.027 | 0.810 | 3.780 | 1.750 | 2.030 | 3 |
| White | 1 | 0.850 | 0.440 | 0.330 | 2.690 | 1.120 | 1.570 | 10 |
| White | 1/0 | 0.850 | 0.500 | 0.370 | 2.800 | 1.250 | 1.550 | 10 |
| White | 2/0 | 0.850 | 0.547 | 0.420 | 2.780 | 1.270 | 1.510 | 10 |
| Brown | 3/0 | 1.090 | 0.594 | 0.460 | 2.780 | 1.270 | 1.510 | 10 |
| Brown | 4/0 | 1.090 | 0.657 | 0.530 | 3.080 | 1.460 | 1.620 | 10 |
| Brown | 250 | 1.090 | 0.704 | 0.570 | 3.080 | 1.460 | 1.620 | 10 |
| Pink | 300 | 1.310 | 0.763 | 0.620 | 3.380 | 1.680 | 1.700 | 10 |
| Pink | 350 | 1.310 | 0.842 | 0.680 | 3.380 | 1.680 | 1.700 | 10 |
| Yellow | 400 | 1.460 | 0.821 | 0.720 | 3.990 | 1.720 | 2.270 | 3 |
| Yellow | 500 | 1.460 | 1.031 | 0.810 | 4.180 | 1.720 | 2.460 | 3 |

FIGURE 1

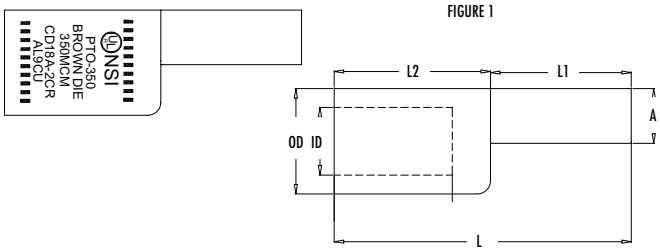
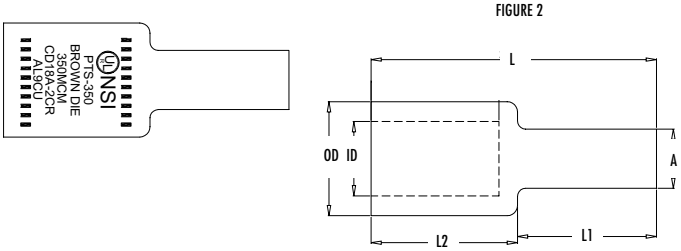



FIGURE 2



COMPRESSION CONNECTORS

# Dual Rated Wide Range Tap Connectors and Covers

WRD, C SERIES



## DUAL RATED WIDE RANGE TAP CONNECTORS

- For combinations of aluminum and aluminum-copper conductors.
- Standard compression tools and dies install all sizes.
- Formable ribs provide broader contact area.
- Fold-in tabs provide positive tab interlock as tool closes.
- Made from high strength aluminum alloy.
- All connectors are reversible.

## RATINGS

**RATING:**
600V.

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 149

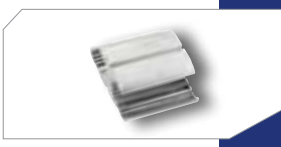
## DUAL RATED INSULATING COVERS



- Hinged polyurethane cover for easy installation of WRD series tap connectors.
- Eliminates taping.
- Drain ports prevent accumulation of moisture.
- Ultraviolet stabilized.

| CAT. NO. | CAPACITY | STD. CTN. QTY. |
|---|---|---|
| **C2** | All 5/8" OD. Sleeve 2" long or less | 12 |
| **C5** | All "O" die taps 1 3/4" long or less | 12 |
| **C7** | All "D" die taps 2 1/2" long or less | 6 |
| **C9** | All "N" die taps up to 2" long | 4 |

Scan QR to view Tool & Die Charts



| CAT. NO. | STANDARD CONDUCTOR RANGE | | | | | | COMPACT CONDUCTOR | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A GROOVE | | | B GROOVE | | | A GROOVE | | B GROOVE | | |
| | ACSR | STR | SOL | ACSR | STR | SOL | ACSR | STR | ACSR | STR | |
| | - | 1 | - | - | 1 | - | 1 | 1 | 1 | 1 | 25 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 25 |
| **WRD159** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 25 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 25 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 25 |
| | - | - | 3/0 | - | - | 1/0 | - | - | - | - | 25 |
| | - | 2/0 | 2/0 | - | 1 | 1 | 2/0 | 2/0 | 1 | 1 | 25 |
| **WRD189** | 1/0 | 1/0 | 1/0 | 2 | 2 | 1/0 | 1/0 | 2 | 2 | - | 25 |
| | 1 | 1 | 1 | 3 | 3 | 3 | 1 | 1 | 3 | 3 | 25 |
| | 2 | 2 | - | 4 | 4 | 4 | 2 | 2 | 4 | 4 | 25 |
| | 3 | - | - | 6 | 6 | 6 | - | - | 6 | 6 | 25 |
| | - | - | 4/0 | - | 3/0 | 3/0 | - | - | - | - | 25 |
| | - | 3/0 | 3/0 | 2/0 | 2/0 | 2/0 | 3/0 | 3/0 | 3/0 | 3/0 | 25 |
| **WRD279** | 2/0 | 2/0 | 2/0 | 1/0 | 1/0 | - | 2/0 | 2/0 | 2/0 | 2/0 | 25 |
| | 1/0 | 4/0 | - | 1 | - | - | 1/0 | 1/0 | 1/0 | 1/0 | 25 |
| | 1 | - | - | - | - | - | - | - | - | - | 25 |
| | - | - | - | - | - | 1/0 | - | - | - | - | 25 |
| | - | - | - | - | 1 | 1 | - | - | 1 | 1 | 25 |
| **WRD289** | - | - | 4/0 | 2 | 2 | 2 | 3/0 | 3/0 | 2 | 2 | 25 |
| | - | 3/0 | 3/0 | 3 | 3 | 3 | 2/0 | - | 3 | 3 | 25 |
| | 2/0 | 2/0 | - | 4 | 4 | 4 | - | - | 4 | 4 | 25 |
| | 1/0 | - | - | 6 | 6 | 6 | - | - | 6 | 6 | 25 |
| | - | - | - | - | - | 1/0 | - | - | - | - | 25 |
| | - | - | - | - | 1 | 1 | - | - | 1 | 1 | 25 |
| | - | - | - | 2 | 2 | 2 | 266-18/1 | 266 | 2 | 2 | 25 |
| **WRD379** | 4/0 | 4/0 | - | 3 | 3 | 3 | 250 | 250 | 3 | 3 | 25 |
| | 3/0 | - | - | 4 | 4 | 4 | 4/0 | 4/0 | 4 | 4 | 25 |
| | - | - | - | 6 | 6 | 6 | - | - | 6 | 6 | 25 |
| | - | - | - | - | - | 3/0 | 266-18/1 | 266 | - | - | 25 |
| | - | - | - | 2/0 | 2/0 | 2/0 | - | 250 | - | 3/0 | 25 |
| **WRD399** | 4/0 | 4/0 | - | 1/0 | 1/0 | - | 4/0 | 4/0 | 2/0 | 2/0 | 25 |
| | 3/0 | 3/0 | - | 1 | - | - | 3/0 | - | 1/0 | 1/0 | 25 |
| | - | - | - | - | - | - | 266-18/1 | 266-18/1 | 266-18/1 | 266 | 25 |
| **WRD419** | 4/0 | 4/0 | - | 4/0 | 4/0 | - | - | 250 | - | 250 | 25 |
| | 3/0 | 3/0 | - | 3/0 | 3/0 | - | 4/0 | 4/0 | 4/0 | 4/0 | 25 |

COMPRESSION CONNECTORS

# Dual Rated Wide Range Tap Connectors

WRD SERIES CONTINUED



## FEATURES

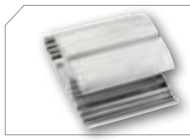
- For combinations of aluminum and aluminum-copper conductors.
- Standard compression tools and dies install all sizes.
- Formable ribs provide broader contact area.
- Fold-in tabs provide positive tab interlock as tool closes.
- Made from high strength aluminum alloy.
- All connectors are reversible.

## RATINGS

**RATING:**
600V.

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 149

Scan QR to view Tool & Die Charts



| CAT. NO. | STANDARD CONDUCTOR RANGE | | | | | | COMPACT CONDUCTOR | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A GROOVE | | | B GROOVE | | | A GROOVE | | B GROOVE | | |
| | ACSR | STR | SOL | ACSR | STR | SOL | ACSR | STR | ACSR | STR | |
| WRD9 | - | - | 1 | - | 8 | 8 | - | - | - | - | 50 |
| | 3 | 2 | 2 | - | 10 | 10 | - | - | - | - | 50 |
| | 4 | 3 | 3 | - | 12 | 12 | - | - | - | - | 50 |
| | 6 | 4 | 4 | - | 14 | 14 | - | - | - | - | 50 |
| | 6 | - | - | - | - | - | | - | - | - | 50 |
| WRD139 | - | 2/0 | - | - | - | - | - | - | - | - | 25 |
| | 1/0 | 1/0 | - | - | - | - | - | - | - | - | 25 |
| | 1 | 1 | 1 | - | - | 6 | - | - | - | - | 25 |
| | 2 | 2 | 2 | - | - | - | - | - | - | - | 25 |
| | 3 | 3 | - | - | 10 | 10 | - | - | - | - | 25 |
| | 4 | - | - | - | - | - | - | - | - | - | 25 |
| WRD149 | - | - | 2 | - | - | 2 | - | 2 | - | 2 | 25 |
| | - | 3 | 3 | - | 3 | 3 | - | 3 | 3 | 3 | 25 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 25 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 25 |
| WRD179 | 1/0 | 1/0 | - | - | - | 2 | - | 2/0 | - | 2 | 25 |
| | 1 | 1 | 1 | - | 3 | 3 | 1/0 | 1/0 | - | 3 | 25 |
| | 2 | 2 | - | 4 | 4 | 4 | 1 | 1 | 4 | 4 | 25 |
| | 3 | - | - | 6 | 6 | 6 | 2 | 2 | 6 | 6 | 25 |
| WRD199 | 1/0 | 1/0 | - | - | 1 | 1 | - | 2/0 | 1 | 1 | 25 |
| | 1 | 1 | 1 | 2 | 2 | 2 | 1/0 | 1/0 | 2 | 2 | 25 |
| | 2 | 2 | - | 3 | 3 | - | 1 | 1 | 3 | - | 25 |
| | 3 | - | - | 4 | 4 | - | 2 | 2 | 4 | - | 25 |
| WRD219 | 1/0 | 1/0 | - | 1/0 | 1/0 | - | - | 2/0 | - | 2/0 | 25 |
| | 1 | 1 | - | 1 | 1 | - | 1/0 | 1/0 | 1/0 | 1/0 | 25 |
| | - | - | - | 2 | - | - | - | - | 1 | - | 25 |
| WRD259 | - | 2/0 | - | - | 2/0 | - | 2/0 | 2/0 | 2/0 | 2/0 | 25 |
| | 1/0 | 1/0 | - | 1/0 | 1/0 | - | 1/0 | 1/0 | 1/0 | 1/0 | 25 |
| | 1 | - | - | 1 | - | - | - | - | - | - | 25 |
| WRD299 | - | 3/0 | - | - | - | 2 | 3/0 | 3/0 | - | 2 | 25 |
| | 2/0 | 2/0 | - | - | 3 | 3 | 2/0 | - | - | 3 | 25 |
| | 1/0 | - | - | 4 | 4 | 4 | - | - | 4 | 4 | 25 |
| | - | - | - | 6 | 6 | 6 | - | - | 6 | 6 | 25 |
| WRD359 | - | - | - | - | 1/0 | - | - | - | - | - | 25 |
| | 4/0 | 4/0 | - | 1 | 1 | 1 | 266 | 266 | 1/0 | 1/0 | 25 |
| | 3/0 | 3/0 | - | 2 | 2 | - | - | 250 | 1 | 1 | 25 |
| | - | - | - | 3 | 3 | - | 4/0 | 4/0 | 2 | 2 | 25 |
| | - | - | - | 4 | - | - | 3/0 | - | - | - | 25 |
| WRD369 | 4/0 | 4/0 | - | 1/0 | 1/0 | 1/0 | 266 | 266 | 1/0 | 1/0 | 25 |
| | 3/0 | 3/0 | - | 1 | 1 | 1 | - | 250 | 1 | 1 | 25 |
| | 2/0 | - | - | 2 | 2 | 2 | 4/0 | 4/0 | 2 | 2 | 25 |
| | - | - | - | 3 | 3 | - | 3/0 | 3/0 | 3 | - | 25 |
| | - | - | - | 4 | 4 | - | - | - | 4 | - | 25 |
| WRD389 | - | - | - | - | - | - | 266 | 266 | - | - | 25 |
| | 4/0 | 4/0 | - | - | 3/0 | - | - | 250 | 3/0 | 3/0 | 25 |
| | 3/0 | 3/0 | - | 2/0 | 2/0 | - | 4/0 | 4/0 | 2/0 | - | 25 |
| | - | - | - | 1/0 | - | - | 3/0 | - | - | - | 25 |

COMPRESSION CONNECTORS

# Dual Rated Meter Socket Lugs

CAL SERIES



## FEATURES

- Made of dead-soft EC grade aluminum.
- 840 common dies – one die installs on all sizes.
- For aluminum or copper conductors.
- Pre-filled with oxide inhibitor.
- Installing dies (color red): .840, 18, 324, TX, 76, 11A, 249.

## RATINGS

Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.

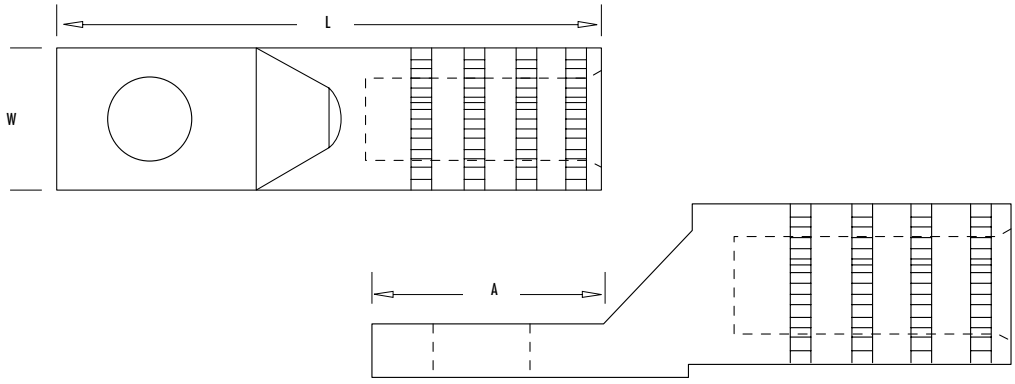
**RATING:**
600V.

All dimensional data is listed in inches.

| CAT. NO. |
|---|
| CAL4 |
| CAL2 |
| CAL1-48 |
| CAL10 |
| CAL20 |
| CAL20-48 |
| CAL30-48 |
| CAL 40 |
| CAL40-48 |



| CONDUCTOR | | | BOLT SIZE | LENGTH (L) | WIDTH (W) | TANG LENGTH (A) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| STRANDED | SOLID | COMPACT | | | | | |
| 4 | 3 | 4 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 2 | 1 | 2 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 1 | 1/0 | 1 | 1/2 | 3.250 | 0.3125 | 1.3125 | 12 |
| 1/0 | 2/0 | 1/0 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 2/0 | 3/0 | 2/0 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 2/0 | 3/0 | 2/0 | 1/2 | 3.250 | 0.3125 | 1.3125 | 12 |
| 3/0 | 4/0 | 3/0 | 1/2 | 3.250 | 0.3125 | 1.3125 | 12 |
| 4/0 | - | 4/0 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 4/0 | - | 4/0 | 1/2 | 3.250 | 0.3125 | 1.3125 | 12 |



COMPRESSION CONNECTORS

# Dual Rated Insulated Service Entrance Sleeves

ISE SERIES



## FEATURES

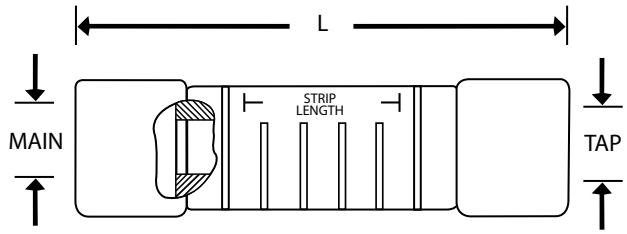
- Pre-insulated service entrance compression sleeves for fast and easy installation with standard tools and dies.
- For combinations of aluminum-aluminum and aluminum-copper conductors.
- Solid center barrier.

## RATINGS

Meets or exceeds ANSI C119.4.

Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.

**RATING:**
600V




All dimensional data is listed in inches.

| CAT. NO. | DIE SIZE | TOOL |
|---|---|---|
| **ISE61** | 5/8 | OD581 |
| **ISE62** | 5/8 | OD581 |
| **ISE63** | 5/8 | OD581 |
| **ISE64** | 5/8 | OD581 |
| **ISE65** | 5/8 | OD581 |
| **ISE66** | 5/8 | OD581 |
| **ISE67** | 5/8 | OD581 |
| **ISE68** | 5/8 | OD581 |
| **ISE71** | 5/8 | OD581 |
| **ISE72** | 5/8 | OD581 |
| **ISE73** | 5/8 | OD581 |
| **ISE76** | 5/8 | OD581 |
| **ISE77** | 5/8 | OD581 |
| **ISE78** | 5/8 | OD581 |
| **ISE135** | 0.840 | OD581+BY377C |
| **ISE136** | 0.840 | OD581+BY377C |
| **ISE144** | 0.840 | OD581+BY377C |
| **ISE145** | 0.840 | OD581+BY377C |
| **ISE146** | 0.840 | OD581+BY377C |
| **ISE147** | 0.840 | OD581+BY377C |
| **ISE154** | 0.840 | OD581+BY377C |
| **ISE155** | 0.840 | OD581+BY377C |
| **ISE156** | 0.840 | OD581+BY377C |
| **ISE158** | 0.840 | OD581+BY377C |
| **ISE164** | 0.840 | OD581+BY377C |
| **ISE165** | 0.840 | OD581+BY377C |
| **ISE167** | 0.840 | OD581+BY377C |
| **ISE168** | 0.840 | OD581+BY377C |
| **ISE169** | 0.840 | OD581+BY377C |

*compact



| CONDUCTOR RANGE MAIN | | | CONDUCTOR RANGE TAP | | | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| ACSR | AWG | COLOR CODE | ACSR | AWG | COLOR CODE | | |
| - | 8 STR-6 SOL | Green | - | 8 STR-6 SOL | Green | 2.780 | 50 |
| 6 | 6 STR-4 SOL | Blue | - | 10 STR-8 SOL | Brown | 2.780 | 50 |
| 6 | 6 STR-4 SOL | Blue | - | 8 STR-6 SOL | Green | 2.780 | 50 |
| 6 | 6 STR-4 SOL | Blue | 6 | 6 STR-4 SOL | Blue | 2.780 | 50 |
| 4 | 3-4 STR-2 SOL | Orange | - | 10 STR-8 SOL | Brown | 2.780 | 50 |
| 4 | 3-4 STR-2 SOL | Orange | - | 8 STR-6 SOL | Green | 2.780 | 50 |
| 4 | 3-4 STR-2 SOL | Orange | 6 | 6 STR-4 SOL | Blue | 2.780 | 50 |
| 4 | 3-4 STR-2 SOL | Orange | 4 | 3-4 STR-2 SOL | Orange | 2.780 | 50 |
| 2 | 1-2 STR | Red | 6 | 6 STR-4 SOL | Blue | 2.780 | 50 |
| 2 | 1-2 STR | Red | 4 | 3-4 STR-2 SOL | Orange | 2.780 | 50 |
| 2 | 1-2 STR | Red | 2 | 1-2 STR | Red | 2.780 | 50 |
| 1/0 | 1/0 | Yellow | 4 | 3-4 STR-2 SOL | Orange | 2.780 | 50 |
| 1/0 | 1/0 | Yellow | 2 | 1-2 STR | Red | 2.780 | 50 |
| 1/0 | 1/0 | Yellow | - | 1/0 STR | Yellow | 2.780 | 50 |
| 1/0 | 1/0, 2/0 STR* | Yellow | 2 | 1-2 STR | Red | 5.500 | 12 |
| 1/0 | 1/0, 2/0 STR* | Yellow | 1/0 | 1/0 STR, 2/0 COM | Yellow | 5.500 | 12 |
| 2/0 | 2/0, 3/0 STR* | Gray | 4 | 3-4 STR-2 SOL | Orange | 5.500 | 12 |
| 2/0 | 2/0, 3/0 STR* | Gray | 2 | 1-2 STR | Red | 5.500 | 12 |
| 2/0 | 2/0, 3/0 STR* | Gray | 1/0 | 1/0 STR, 2/0 COM | Yellow | 5.500 | 12 |
| 2/0 | 2/0, 3/0 STR* | Gray | 2/0 | 2/0 STR, 3/0 COM | Gray | 5.500 | 12 |
| 3/0 | 3/0, 4/0 STR* | Black | 4 | 3-4 STR, 2 SOL | Orange | 5.500 | 12 |
| 3/0 | 3/0, 4/0 STR* | Black | 2 | 1-2 STR | Red | 5.500 | 12 |
| 3/0 | 3/0, 4/0 STR* | Black | 1/0 | 1/0 STR, 2/0 COM | Yellow | 5.500 | 12 |
| 3/0 | 3/0, 4/0 STR* | Black | 3/0 | 3/0 STR, 4/0 COM | Black | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 4 | 3-4 STR-2 SOL | Orange | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 2 | 1-2 STR | Red | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 2/0 | 2/0 STR, 3/0 COM | Gray | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 3/0 | 3/0 STR, 4/0 COM | Black | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 4/0 | 4/0 STR | Pink | 5.500 | 12 |

COMPRESSION CONNECTORS

# Long Barrel One Hole Copper Lugs

L SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions.
- For applications greater than 2000V, consult the cable manufacturer for voltage stress relief instructions.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE** |
|---|---|---|
| L810 | 8 AWG | 8 - 10 AWG |
| L810P | 8 AWG | 8 - 10 AWG |
| L814 | 8 AWG | 8 - 10 AWG |
| L814P | 8 AWG | 8 - 10 AWG |
| L838 | 8 AWG | 8 - 10 AWG |
| L838P | 8 AWG | 8 - 10 AWG |
| L610 | 6 AWG | 6 - 8 AWG |
| L614 | 6 AWG | 6 - 8 AWG |
| L614P | 6 AWG | 6 - 8 AWG |
| L638 | 6 AWG | 6 - 8 AWG |
| L638P | 6 AWG | 6 - 8 AWG |
| L656 | 6 AWG | 6 - 8 AWG |
| L656P | 6 AWG | 6 - 8 AWG |
| L410 | 4 AWG | 4 - 6 AWG |
| L414 | 4 AWG | 4 - 6 AWG |
| L414P | 4 AWG | 4 - 6 AWG |
| L438 | 4 AWG | 4 - 6 AWG |
| L438P | 4 AWG | 4 - 6 AWG |
| L456 | 4 AWG | 4 - 6 AWG |
| L456P | 4 AWG | 4 - 6 AWG |
| L314 | 3 AWG | 3 - 6 AWG |
| L356 | 3 AWG | 3 - 6 AWG |
| L338 | 3 AWG | 3 - 6 AWG |
| L214 | 2 AWG | 2 - 6 AWG |
| L214P | 2 AWG | 2 - 6 AWG |
| L256 | 2 AWG | 2 - 6 AWG |
| L256P | 2 AWG | 2 - 6 AWG |
| L238 | 2 AWG | 2 - 6 AWG |
| L238P | 2 AWG | 2 - 6 AWG |
| L156 | 1 AWG | 1 - 6 AWG |
| L138 | 1 AWG | 1 - 6 AWG |
| L1014 | 1/0 AWG | 1/0 - 6 AWG |
| L1014P | 1/0 AWG | 1/0 - 6 AWG |
| L1038 | 1/0 AWG | 1/0 - 6 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143



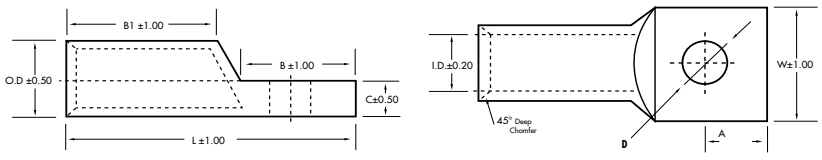
Scan QR to view Tool & Die Charts



nsi INDUSTRIES



| BOLT SIZE | I.D. | O.D. | LENGTH (L) | WIDTH (W) | A | B | B1 | C | D | COLOR | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| #10 | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.210 | Red | 100 |
| #10 | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.210 | Red | 100 |
| 1/4" | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.252 | Red | 100 |
| 1/4" | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.252 | Red | 100 |
| 3/8" | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.413 | Red | 100 |
| 3/8" | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.413 | Red | 100 |
| #10 | 0.205 | 0.295 | 1.770 | 0.420 | 0.300 | 0.640 | 0.980 | 0.083 | 0.210 | Blue | 100 |
| 1/4" | 0.205 | 0.295 | 1.772 | 0.421 | 0.295 | 0.669 | 0.984 | 0.083 | 0.252 | Blue | 100 |
| 1/4" | 0.205 | 0.295 | 1.772 | 0.421 | 0.295 | 0.669 | 0.984 | 0.083 | 0.252 | Blue | 100 |
| 3/8" | 0.205 | 0.295 | 1.913 | 0.591 | 0.370 | 0.811 | 0.984 | 0.083 | 0.413 | Blue | 100 |
| 3/8" | 0.205 | 0.295 | 1.913 | 0.591 | 0.370 | 0.811 | 0.984 | 0.083 | 0.413 | Blue | 100 |
| 5/16" | 0.205 | 0.295 | 1.910 | 0.590 | 0.370 | 0.810 | 0.980 | 0.083 | 0.330 | Blue | 100 |
| 5/16" | 0.205 | 0.295 | 1.910 | 0.590 | 0.370 | 0.810 | 0.980 | 0.083 | 0.330 | Blue | 100 |
| #10 | 0.252 | 0.343 | 1.770 | 0.488 | 0.315 | 0.669 | 0.980 | 0.087 | 0.210 | Gray | 100 |
| 1/4" | 0.252 | 0.343 | 1.772 | 0.488 | 0.315 | 0.669 | 0.984 | 0.087 | 0.252 | Gray | 100 |
| 1/4" | 0.252 | 0.343 | 1.772 | 0.488 | 0.315 | 0.669 | 0.984 | 0.087 | 0.252 | Gray | 100 |
| 3/8" | 0.252 | 0.343 | 1.913 | 0.591 | 0.370 | 0.811 | 0.984 | 0.087 | 0.413 | Gray | 100 |
| 3/8" | 0.252 | 0.343 | 1.913 | 0.591 | 0.370 | 0.811 | 0.984 | 0.087 | 0.413 | Gray | 100 |
| 5/16" | 0.252 | 0.343 | 1.772 | 0.488 | 0.315 | 0.669 | 0.984 | 0.087 | 0.331 | Gray | 100 |
| 5/16" | 0.252 | 0.343 | 1.772 | 0.488 | 0.315 | 0.669 | 0.984 | 0.087 | 0.331 | Gray | 100 |
| 1/4" | 0.270 | 0.377 | 2.344 | 0.531 | 0.323 | 0.828 | 1.169 | 0.097 | 0.277 | White | 100 |
| 5/16" | 0.270 | 0.377 | 2.157 | 0.538 | 0.346 | 0.767 | 1.120 | 0.091 | 0.336 | White | 50 |
| 3/8" | 0.270 | 0.377 | 2.351 | 0.550 | 0.418 | 0.823 | 1.188 | 0.083 | 0.397 | White | 50 |
| 1/4" | 0.315 | 0.421 | 2.071 | 0.602 | 0.206 | 0.811 | 1.102 | 0.102 | 0.252 | Brown | 50 |
| 1/4" | 0.315 | 0.421 | 2.071 | 0.602 | 0.206 | 0.811 | 1.102 | 0.102 | 0.252 | Brown | 50 |
| 5/16" | 0.315 | 0.421 | 2.071 | 0.602 | 0.370 | 0.811 | 1.102 | 0.102 | 0.331 | Brown | 50 |
| 5/16" | 0.315 | 0.421 | 2.071 | 0.602 | 0.370 | 0.811 | 1.102 | 0.102 | 0.331 | Brown | 50 |
| 3/8" | 0.315 | 0.421 | 2.071 | 0.602 | 0.370 | 0.811 | 1.102 | 0.102 | 0.413 | Brown | 50 |
| 3/8" | 0.315 | 0.421 | 2.071 | 0.602 | 0.370 | 0.811 | 1.102 | 0.102 | 0.413 | Brown | 50 |
| 5/16" | 0.358 | 0.469 | 2.110 | 0.673 | 0.370 | 0.811 | 1.102 | 0.106 | 0.331 | Green | 50 |
| 3/8" | 0.358 | 0.469 | 2.209 | 0.673 | 0.370 | 0.811 | 1.102 | 0.106 | 0.413 | Green | 50 |
| 1/4" | 0.390 | 0.520 | 2.210 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.210 | Pink | 50 |
| 1/4" | 0.390 | 0.520 | 2.210 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.210 | Pink | 50 |
| 3/8" | 0.390 | 0.520 | 2.209 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.413 | Pink | 50 |



COMPRESSION CONNECTORS

# Long Barrel One Hole Copper Lugs

L SERIES CONTINUED



## FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions
- For applications greater than 2000V, consult the cable manufacturer for voltage stress relief instructions.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| L1038P | 1/0 AWG | 1/0 - 6 AWG |
| L1056 | 1/0 AWG | 1/0 - 6 AWG |
| L1056P | 1/0 AWG | 1/0 - 6 AWG |
| L1048 | 1/0 AWG | 1/0 - 6 AWG |
| L2014 | 2/0 AWG | 2/0 - 4 AWG |
| L2014P | 2/0 AWG | 2/0 - 4 AWG |
| L2038 | 2/0 AWG | 2/0 - 4 AWG |
| L2038P | 2/0 AWG | 2/0 - 4 AWG |
| L2048 | 2/0 AWG | 2/0 - 4 AWG |
| L2048P | 2/0 AWG | 2/0 - 4 AWG |
| L3014 | 3/0 AWG | 3/0 - 2 AWG |
| L3014P | 3/0 AWG | 3/0 - 2 AWG |
| L3038 | 3/0 AWG | 3/0 - 2 AWG |
| L3038P | 3/0 AWG | 3/0 - 2 AWG |
| L3048 | 3/0 AWG | 3/0 - 2 AWG |
| L3048P | 3/0 AWG | 3/0 - 2 AWG |
| L4014 | 4/0 AWG | 4/0 - 1 AWG |
| L4014P | 4/0 AWG | 4/0 - 1 AWG |
| L4038 | 4/0 AWG | 4/0 - 1 AWG |
| L4038P | 4/0 AWG | 4/0 - 1 AWG |
| L4048 | 4/0 AWG | 4/0 - 1 AWG |
| L4048P | 4/0 AWG | 4/0 - 1 AWG |
| L25048 | 250 MCM | 250 MCM - 1/0 AWG |
| L30048 | 300 MCM | 300 MCM - 2/0 AWG |
| L35048 | 350 MCM | 350 MCM - 3/0 AWG |
| L40048 | 400 MCM | 400 MCM - 4/0 AWG |
| L50048 | 500 MCM | 500 - 250 MCM |
| L50058 | 500 MCM | 500 - 250 MCM |
| L60058 | 600 MCM | 600 - 250 MCM |
| L75048 | 750 MCM | 750 - 500 MCM |
| L75058 | 750 MCM | 750 - 500 MCM |
| L10058 | 1000 MCM | - |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**



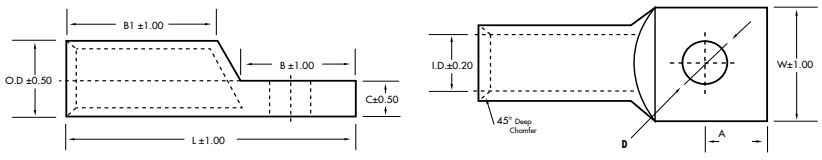
Scan QR to view Tool & Die Charts



nsi INDUSTRIES



| BOLT SIZE (IN). | I.D. | O.D. | LENGTH (L) | WIDTH (W) | A | B | B1 | C | D | COLOR | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/8" | 0.390 | 0.520 | 2.209 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.413 | Pink | 50 |
| 5/16" | 0.390 | 0.520 | 2.210 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.330 | Pink | 50 |
| 5/16" | 0.390 | 0.520 | 2.210 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.330 | Pink | 50 |
| 1/2" | 0.390 | 0.520 | 2.500 | 0.744 | 0.472 | 1.063 | 1.201 | 0.126 | 0.512 | Pink | 50 |
| 1/4" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.252 | Black | 25 |
| 1/4" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.252 | Black | 25 |
| 3/8" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.413 | Black | 25 |
| 3/8" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.413 | Black | 25 |
| 1/2" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.512 | Black | 25 |
| 1/2" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.512 | Black | 25 |
| 1/4" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.252 | Orange | 25 |
| 1/4" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.252 | Orange | 25 |
| 3/8" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.413 | Orange | 25 |
| 3/8" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.413 | Orange | 25 |
| 1/2" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.512 | Orange | 25 |
| 1/2" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.512 | Orange | 25 |
| 1/4" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.252 | Purple | 25 |
| 1/4" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.252 | Purple | 25 |
| 3/8" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.413 | Purple | 25 |
| 3/8" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.413 | Purple | 25 |
| 1/2" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.512 | Purple | 25 |
| 1/2" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.512 | Purple | 25 |
| 1/2" | 0.594 | 0.752 | 3.031 | 1.091 | 0.520 | 1.063 | 1.614 | 0.150 | 0.512 | Yellow | 25 |
| 1/2" | 0.657 | 0.815 | 3.386 | 1.189 | 0.520 | 1.063 | 1.969 | 0.150 | 0.512 | White | 12 |
| 1/2" | 0.701 | 0.874 | 3.465 | 1.276 | 0.520 | 1.063 | 1.969 | 0.165 | 0.512 | Red | 12 |
| 1/2" | 0.764 | 0.949 | 3.858 | 1.386 | 0.512 | 1.378 | 1.969 | 0.177 | 0.512 | Blue | 6 |
| 1/2" | 0.835 | 1.063 | 4.134 | 1.539 | 0.512 | 1.378 | 2.244 | 0.217 | 0.512 | Brown | 6 |
| 5/8" | 0.835 | 1.063 | 4.134 | 1.539 | 0.512 | 1.378 | 2.244 | 0.217 | 0.669 | Brown | 6 |
| 5/8" | 0.925 | 1.189 | 4.252 | 1.717 | 0.689 | 1.457 | 2.244 | 0.252 | 0.669 | Green | 6 |
| 1/2" | 1.031 | 1.311 | 5.157 | 1.902 | 0.689 | 1.850 | 2.638 | 0.268 | 0.512 | Black | 3 |
| 5/8" | 1.031 | 1.311 | 5.157 | 1.902 | 0.689 | 1.850 | 2.638 | 0.268 | 0.669 | Black | 3 |
| 5/8" | 1.184 | 1.494 | 5.613 | 2.148 | 0.866 | 1.776 | 2.603 | 0.328 | 0.663 | White | 3 |



COMPRESSION CONNECTORS

# Long Barrel Copper Lugs Two Hole

LN SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.
- Additional mounting hole spacing options available on request.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us LISTED 155027

SA 701642

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| L8N-14 | 8 AWG | 8 - 10 AWG |
| L8N-14P | 8 AWG | 8 - 10 AWG |
| L8N-141 | 8 AWG | 8 - 10 AWG |
| L8N-141P | 8 AWG | 8 - 10 AWG |
| L8N-142 | 8 AWG | 8 - 10 AWG |
| L8N-142P | 8 AWG | 8 - 10 AWG |
| L8N-38 | 8 AWG | 8 - 10 AWG |
| L8N-38P | 8 AWG | 8 - 10 AWG |
| L8N-383 | 8 AWG | 8 - 10 AWG |
| L8N-383P | 8 AWG | 8 - 10 AWG |
| L8N-563 | 8 AWG | 8 - 10 AWG |
| L8N-563P | 8 AWG | 8 - 10 AWG |
| L6N-12 | 6 AWG | 6 - 8 AWG |
| L6N-14 | 6 AWG | 6 - 8 AWG |
| L6N-14P | 6 AWG | 6 - 8 AWG |
| L6N-141 | 6 AWG | 6 - 8 AWG |
| L6N-141P | 6 AWG | 6 - 8 AWG |
| L6N-142 | 6 AWG | 6 - 8 AWG |
| L6N-142P | 6 AWG | 6 - 8 AWG |
| L6N-38 | 6 AWG | 6 - 8 AWG |
| L6N-38P | 6 AWG | 6 - 8 AWG |
| L6N-382 | 6 AWG | 6 - 8 AWG |
| L6N-382P | 6 AWG | 6 - 8 AWG |
| L6N | 6 AWG | 6 - 8 AWG |
| L6NP | 6 AWG | 6 - 8 AWG |
| L4N-14 | 4 AWG | 4 - 6 AWG |
| L4N-14P | 4 AWG | 4 - 6 AWG |
| L4N-141 | 4 AWG | 4 - 6 AWG |
| L4N-141P | 4 AWG | 4 - 6 AWG |
| L4N-142 | 4 AWG | 4 - 6 AWG |
| L4N-142P | 4 AWG | 4 - 6 AWG |
| L4N-38 | 4 AWG | 4 - 6 AWG |
| L4N-38P | 4 AWG | 4 - 6 AWG |
| L4N-382 | 4 AWG | 4 - 6 AWG |
| L4N-382P | 4 AWG | 4 - 6 AWG |
| L4N | 4 AWG | 4 - 6 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts

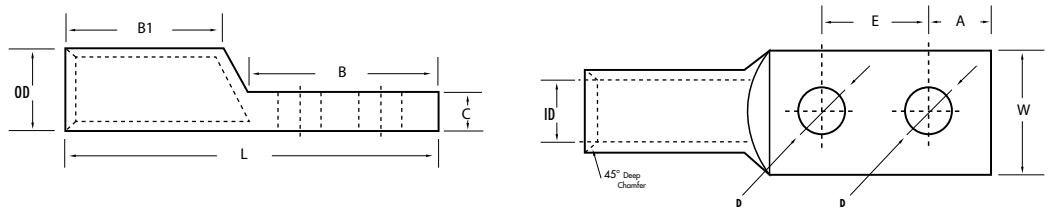




nsi INDUSTRIES



| COLOR | BOLT SIZE | MTG. HOLE SPACING (E) | I.D. | O.D. | LENGTH (L) | WIDTH (W) (IN.) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Red | 1/4" | 1.000 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 1.000 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 0.625 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 0.625 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 0.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 0.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 3/8" | 1.000 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.410 | 100 |
| Red | 3/8" | 1.000 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.410 | 100 |
| Red | 3/8" | 1.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.410 | 100 |
| Red | 3/8" | 1.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.410 | 100 |
| Blue | 5/16" | 1.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.312 | 100 |
| Blue | 5/16" | 1.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.312 | 100 |
| Blue | 1/4″ | 0.500 | 0.200 | 0.300 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.625 | 0.200 | 0.300 | 2.360 | 0.420 | 0.280 | 1.260 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.625 | 0.200 | 0.300 | 2.360 | 0.420 | 0.280 | 1.260 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.625 | 0.200 | 0.300 | 2.480 | 0.420 | 1.260 | 1.380 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.625 | 0.200 | 0.300 | 2.480 | 0.420 | 1.260 | 1.380 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.750 | 0.200 | 0.300 | 2.480 | 0.420 | 0.280 | 1.380 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.750 | 0.200 | 0.300 | 2.480 | 0.420 | 0.280 | 1.380 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 3/8″ | 1.000 | 0.200 | 0.300 | 2.910 | 0.420 | 0.380 | 1.810 | 0.980 | 0.080 | 0.410 | 100 |
| Blue | 3/8″ | 1.000 | 0.200 | 0.300 | 2.910 | 0.420 | 0.380 | 1.810 | 0.980 | 0.080 | 0.410 | 100 |
| Blue | 3/8" | 0.750 | 0.200 | 0.300 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.410 | 100 |
| Blue | 3/8" | 0.750 | 0.200 | 0.300 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.410 | 100 |
| Blue | 1/2″ | 1.750 | 0.200 | 0.300 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.510 | 100 |
| Blue | 1/2″ | 1.750 | 0.200 | 0.300 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.510 | 100 |
| Gray | 1/4″ | 0.625 | 0.250 | 0.340 | 2.360 | 0.490 | 0.280 | 1.260 | 0.980 | 0.090 | 0.261 | 100 |
| Gray | 1/4″ | 0.625 | 0.250 | 0.340 | 2.360 | 0.490 | 0.280 | 1.260 | 0.980 | 0.090 | 0.261 | 100 |
| Gray | 1/4″ | 0.625 | 0.250 | 0.340 | 2.95 | 0.420 | 0.380 | 1.810 | 0.980 | 0.90 | 0.261 | 100 |
| Gray | 1/4" | 0.625 | 0.250 | 0.340 | 2.950 | 0.420 | 0.380 | 1.810 | 0.980 | 0.090 | 0.261 | 100 |
| Gray | 1/4″ | 0.625 | 0.250 | 0.340 | 2.95 | 0.420 | 0.380 | 1.810 | 0.980 | 0.90 | 0.261 | 100 |
| Gray | 1/4" | 0.625 | 0.250 | 0.340 | 2.950 | 0.420 | 0.380 | 1.810 | 0.980 | 0.090 | 0.261 | 100 |
| Gray | 3/8″ | 1.000 | 0.250 | 0.340 | 2.950 | 0.420 | 0.380 | 1.810 | 0.980 | 0.090 | 0.410 | 100 |
| Gray | 3/8″ | 1.000 | 0.250 | 0.340 | 2.950 | 0.420 | 0.380 | 1.810 | 0.980 | 0.090 | 0.410 | 100 |
| Gray | 3/8" | 0.750 | 0.250 | 0.340 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.410 | 100 |
| Gray | 3/8" | 0.750 | 0.250 | 0.340 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.410 | 100 |
| Gray | 1/2″ | 1.750 | 0.250 | 0.340 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.510 | 100 |



COMPRESSION CONNECTORS

# Long Barrel Copper Lugs Two Hole

LN SERIES CONTINUED



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.
- Additional mounting hole spacing options available on request.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us LISTED 155027

SA 701642

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| L4N-P | 4 AWG | 4 - 6 AWG |
| L2N-14 | 2 AWG | 2 - 6 AWG |
| L2N-14P | 2 AWG | 2 - 6 AWG |
| L2N-141 | 2 AWG | 2 - 6 AWG |
| L2N-141P | 2 AWG | 2 - 6 AWG |
| L2N-142 | 2 AWG | 2 - 6 AWG |
| L2N-38 | 2 AWG | 2 - 6 AWG |
| L2N-38P | 2 AWG | 2 - 6 AWG |
| L2N-382 | 2 AWG | 2 - 6 AWG |
| L2N-382P | 2 AWG | 2 - 6 AWG |
| L2N-383 | 2 AWG | 2 - 6 AWG |
| L2N-383P | 2 AWG | 2 - 6 AWG |
| L2N-56 | 2 AWG | 2 - 6 AWG |
| L2N | 2 AWG | 2 - 6 AWG |
| L2N-P | 2 AWG | 2 - 6 AWG |
| L1N-141 | 1 AWG | 1 - 6 AWG |
| L1N-38 | 1 AWG | 1 - 6 AWG |
| L1N-56 | 1 AWG | 1 - 6 AWG |
| L1N | 1 AWG | 1 - 6 AWG |
| L10N-14 | 1/0 AWG | 1/0 - 6 AWG |
| L10N-14P | 1/0 AWG | 1/0 - 6 AWG |
| L10N-38 | 1/0 AWG | 1/0 - 6 AWG |
| L10N-38P | 1/0 AWG | 1/0 - 6 AWG |
| L10N-382 | 1/0 AWG | 1/0 - 6 AWG |
| L10N-382P | 1/0 AWG | 1/0 - 6 AWG |
| L10N-383 | 1/0 AWG | 1/0 - 6 AWG |
| L10N-383P | 1/0 AWG | 1/0 - 6 AWG |
| L10N | 1/0 AWG | 1/0 - 6 AWG |
| L10N-P | 1/0 AWG | 1/0 - 6 AWG |
| L20N-14 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-141 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-141P | 2/0 AWG | 2/0 - 4 AWG |
| L20N-142 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-14P | 2/0 AWG | 2/0 - 4 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts

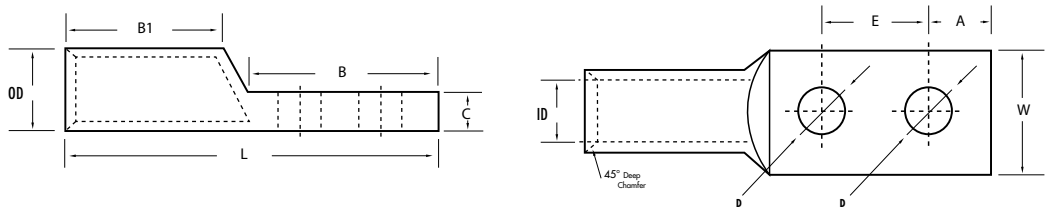




nsi INDUSTRIES



| COLOR | BOLT SIZE | MTG. HOLE SPACING (E) (IN.) | I.D. | O.D. | LENGTH (L) | WIDTH (W) (IN.) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (D) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gray | 1/2" | 1.750 | 0.250 | 0.340 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.510 | 100 |
| Brown | 1/4" | 1.000 | 0.310 | 0.420 | 2.520 | 0.600 | 0.280 | 1.260 | 1.100 | 0.100 | 0.252 | 50 |
| Brown | 1/4" | 1.000 | 0.310 | 0.420 | 2.520 | 0.600 | 0.280 | 1.260 | 1.100 | 0.100 | 0.252 | 50 |
| Brown | 1/4" | 0.625 | 0.310 | 0.420 | 2.520 | 0.600 | 0.280 | 1.260 | 1.100 | 0.100 | 0.250 | 50 |
| Brown | 1/4" | 0.625 | 0.310 | 0.420 | 2.520 | 0.600 | 0.280 | 1.260 | 1.100 | 0.100 | 0.250 | 50 |
| Brown | 1/4" | 0.750 | 0.310 | 0.420 | 2.640 | 0.600 | 0.280 | 1.380 | 1.100 | 0.100 | 0.250 | 50 |
| Brown | 3/8" | 1.000 | 0.310 | 0.420 | 3.070 | 0.600 | 0.380 | 1.810 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 1.000 | 0.310 | 0.420 | 3.070 | 0.600 | 0.380 | 1.810 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 0.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 0.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 1.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 1.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 5/16" | 0.750 | 0.310 | 0.420 | 2.870 | 0.600 | 0.320 | 1.610 | 1.100 | 0.100 | 0.330 | 50 |
| Brown | 1/2" | 1.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.510 | 50 |
| Brown | 1/2" | 1.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.510 | 50 |
| Green | 1/4" | 0.630 | 0.360 | 0.470 | 2.560 | 0.670 | 0.280 | 1.260 | 1.100 | 0.110 | 0.250 | 50 |
| Green | 3/8" | 1.000 | 0.360 | 0.470 | 3.070 | 0.670 | 0.380 | 1.810 | 1.100 | 0.110 | 0.410 | 50 |
| Green | 5/16" | 0.870 | 0.360 | 0.470 | 2.930 | 0.670 | 0.320 | 1.610 | 1.100 | 0.110 | 0.330 | 50 |
| Green | 1/2" | 1.750 | 0.360 | 0.470 | 4.290 | 0.750 | 0.620 | 2.990 | 1.100 | 0.100 | 0.510 | 50 |
| Pink | 1/4" | 1.000 | 0.390 | 0.520 | 3.210 | 0.740 | 0.380 | 1.810 | 1.200 | 0.130 | 0.252 | 50 |
| Pink | 1/4" | 1.000 | 0.390 | 0.520 | 3.210 | 0.740 | 0.380 | 1.810 | 1.200 | 0.130 | 0.252 | 50 |
| Pink | 3/8" | 1.000 | 0.390 | 0.520 | 3.210 | 0.740 | 0.380 | 1.810 | 1.200 | 0.130 | 0.410 | 50 |
| Pink | 3/8" | 1.000 | 0.390 | 0.520 | 3.210 | 0.740 | 0.380 | 1.810 | 1.200 | 0.130 | 0.410 | 50 |
| Pink | 3/8" | 0.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.410 | 50 |
| Pink | 3/8" | 0.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.410 | 50 |
| Pink | 3/8" | 1.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.410 | 50 |
| Pink | 3/8" | 1.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.410 | 50 |
| Pink | 1/2" | 1.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.510 | 50 |
| Pink | 1/2" | 1.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.510 | 50 |
| Black | 1/4" | 0.625 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.252 | 25 |
| Black | 1/4" | 0.625 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.252 | 25 |
| Black | 1/4" | 0.750 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.252 | 25 |
| Black | 1/4" | 0.750 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.250 | 25 |
| Black | 1/4" | 0.625 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.252 | 25 |



COMPRESSION CONNECTORS

# Long Barrel Copper Lugs Two Hole

LN SERIES CONTINUED



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.
- Additional mounting hole spacing options available on request.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us LISTED 155027

SA 701642

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE * |
|---|---|---|
| L20N-38 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-38P | 2/0 AWG | 2/0 - 4 AWG |
| L20N-383 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-383P | 2/0 AWG | 2/0 - 4 AWG |
| L20N | 2/0 AWG | 2/0 - 4 AWG |
| L20NP | 2/0 AWG | 2/0 - 4 AWG |
| L30N-141 | 3/0 AWG | 3/0 - 2 AWG |
| L30N-141P | 3/0 AWG | 3/0 - 2 AWG |
| L30N-38 | 3/0 AWG | 3/0 - 2 AWG |
| L30N-38P | 3/0 AWG | 3/0 - 2 AWG |
| L30N-56 | 3/0 AWG | 3/0 - 2 AWG |
| L30N-56P | 3/0 AWG | 3/0 - 2 AWG |
| L30N | 3/0 AWG | 3/0 - 2 AWG |
| L30NP | 3/0 AWG | 3/0 - 2 AWG |
| L40N-141 | 4/0 AWG | 4/0 - 1 AWG |
| L40N-141P | 4/0 AWG | 4/0 - 1 AWG |
| L40N-142 | 4/0 AWG | 4/0 - 1 AWG |
| L40N-142P | 4/0 AWG | 4/0 - 1 AWG |
| L40N-38 | 4/0 AWG | 4/0 - 1 AWG |
| L40N-38P | 4/0 AWG | 4/0 - 1 AWG |
| L40N-383 | 4/0 AWG | 4/0 - 1 AWG |
| L40N-383P | 4/0 AWG | 4/0 - 1 AWG |
| L40N | 4/0 AWG | 4/0 - 1 AWG |
| L40NP | 4/0 AWG | 4/0 - 1 AWG |
| L250N | 250 MCM | 250 MCM - 1/0 AWG |
| L250N-38 | 250 MCM | 250 MCM - 1/0 AWG |
| L300N | 300 MCM | 300 MCM - 2/0 AWG |
| L350N | 350 MCM | 350 MCM - 3/0 AWG |
| L350N-38 | 350 MCM | 350 MCM - 3/0 AWG |
| L400N | 400 MCM | 400 MCM - 4/0 AWG |
| L500N | 500 MCM | 500 - 250 MCM |
| L500N-38 | 500 MCM | 500 - 250 MCM |
| L600N | 600 MCM | 600 - 250 MCM |
| L600N-38 | 600 MCM | 600 - 250 MCM |
| L750N | 750 MCM | 750 - 500 MCM |
| L750N-38 | 750 MCM | 750 - 500 MCM |
| L1000N | 1000 MCM | |

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts

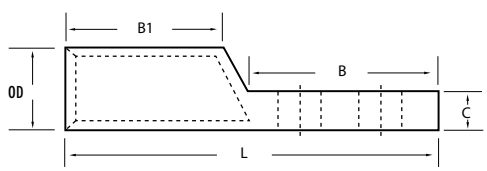


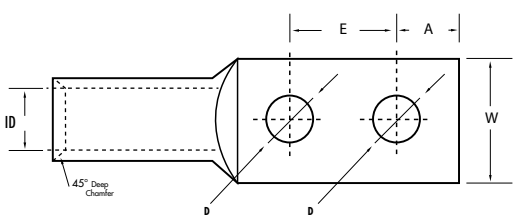


nsi INDUSTRIES



| COLOR | BOLT SIZE | MTG. HOLE SPACING (E) | I.D. | O.D. | LENGTH (L) | WIDTH (W) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Black | 3/8" | 1.000 | 0.440 | 0.560 | 3.430 | 0.810 | 0.380 | 1.810 | 1.380 | 0.120 | 0.410 | 25 |
| Black | 3/8" | 1.000 | 0.440 | 0.560 | 3.430 | 0.810 | 0.380 | 1.810 | 1.380 | 0.120 | 0.410 | 25 |
| Black | 3/8" | 1.750 | 0.440 | 0.560 | 3.430 | 0.810 | 0.380 | 1.810 | 1.380 | 0.120 | 0.410 | 25 |
| Black | 3/8" | 1.750 | 0.440 | 0.560 | 3.430 | 0.810 | 0.380 | 1.810 | 1.380 | 0.120 | 0.410 | 25 |
| Black | 1/2" | 1.750 | 0.440 | 0.560 | 4.610 | 0.810 | 0.620 | 2.990 | 1.380 | 0.120 | 0.510 | 25 |
| Black | 1/2" | 1.750 | 0.440 | 0.560 | 4.610 | 0.810 | 0.620 | 2.990 | 1.380 | 0.120 | 0.510 | 25 |
| Orange | 1/4" | 0.625 | 0.490 | 0.620 | 3.500 | 0.900 | 0.380 | 1.810 | 1.380 | 0.130 | 0.252 | 25 |
| Orange | 1/4" | 0.625 | 0.490 | 0.620 | 3.500 | 0.900 | 0.380 | 1.810 | 1.380 | 0.130 | 0.252 | 25 |
| Orange | 3/8" | 1.000 | 0.490 | 0.620 | 3.500 | 0.900 | 0.380 | 1.810 | 1.380 | 0.130 | 0.410 | 25 |
| Orange | 3/8" | 1.000 | 0.490 | 0.620 | 3.500 | 0.900 | 0.380 | 1.810 | 1.380 | 0.130 | 0.410 | 25 |
| Orange | 5/16" | 1.000 | 0.490 | 0.620 | 4.650 | 0.900 | 0.620 | 2.990 | 1.380 | 0.130 | 0.312 | 25 |
| Orange | 5/16" | 1.000 | 0.490 | 0.620 | 4.650 | 0.900 | 0.620 | 2.990 | 1.380 | 0.130 | 0.312 | 25 |
| Orange | 1/2" | 1.750 | 0.490 | 0.620 | 4.650 | 0.900 | 0.620 | 2.990 | 1.380 | 0.130 | 0.510 | 25 |
| Orange | 1/2" | 1.750 | 0.490 | 0.620 | 4.650 | 0.900 | 0.620 | 2.990 | 1.380 | 0.130 | 0.510 | 25 |
| Purple | 1/4" | 0.625 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.252 | 25 |
| Purple | 1/4" | 0.625 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.252 | 25 |
| Purple | 1/4" | 0.750 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.252 | 25 |
| Purple | 1/4" | 0.750 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.252 | 25 |
| Purple | 3/8" | 1.000 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.410 | 25 |
| Purple | 3/8" | 1.000 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.410 | 25 |
| Purple | 3/8" | 1.750 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.410 | 25 |
| Purple | 3/8" | 1.750 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.410 | 25 |
| Purple | 1/2" | 1.750 | 0.550 | 0.690 | 4.720 | 1.000 | 0.620 | 2.990 | 1.420 | 0.130 | 0.510 | 25 |
| Purple | 1/2" | 1.750 | 0.550 | 0.690 | 4.720 | 1.000 | 0.620 | 2.990 | 1.420 | 0.130 | 0.510 | 25 |
| Yellow | 1/2" | 1.750 | 0.590 | 0.750 | 4.960 | 1.090 | 0.620 | 2.990 | 1.610 | 0.150 | 0.510 | 25 |
| Yellow | 3/8" | 1.000 | 0.590 | 0.750 | 3.780 | 1.090 | 0.380 | 1.810 | 1.610 | 0.150 | 0.410 | 25 |
| White | 1/2" | 1.750 | 0.660 | 0.810 | 5.310 | 1.190 | 0.620 | 2.990 | 1.970 | 0.150 | 0.510 | 12 |
| Red | 1/2" | 1.750 | 0.700 | 0.870 | 5.390 | 1.280 | 0.620 | 2.990 | 1.970 | 0.170 | 0.510 | 12 |
| Red | 3/8" | 1.000 | 0.700 | 0.870 | 4.210 | 1.280 | 0.380 | 1.810 | 1.970 | 0.170 | 0.410 | 12 |
| Blue | 1/2" | 1.750 | 0.760 | 0.950 | 5.470 | 1.390 | 0.620 | 2.990 | 1.970 | 0.180 | 0.510 | 6 |
| Brown | 1/2" | 1.750 | 0.840 | 1.060 | 5.750 | 1.540 | 0.620 | 2.990 | 2.240 | 0.220 | 0.510 | 6 |
| Brown | 3/8" | 1.000 | 0.840 | 1.060 | 4.570 | 1.540 | 0.380 | 1.810 | 2.240 | 0.220 | 0.410 | 6 |
| Green | 1/2" | 1.750 | 0.930 | 1.190 | 5.790 | 1.720 | 0.620 | 2.990 | 2.240 | 0.250 | 0.510 | 6 |
| Green | 3/8" | 1.000 | 0.930 | 1.190 | 4.610 | 1.720 | 0.380 | 1.810 | 2.240 | 0.250 | 0.410 | 6 |
| Black | 1/2" | 1.750 | 1.040 | 1.310 | 6.300 | 1.900 | 0.620 | 2.990 | 2.640 | 0.270 | 0.510 | 3 |
| Black | 3/8" | 1.000 | 1.040 | 1.310 | 5.120 | 1.900 | 0.380 | 1.810 | 2.640 | 0.270 | 0.410 | 3 |
| White | 1/2" | 1.750 | 1.150 | 1.500 | 7.125 | 2.160 | 0.630 | 3.060 | 3.160 | 0.340 | 0.510 | 3 |



COMPRESSION CONNECTORS

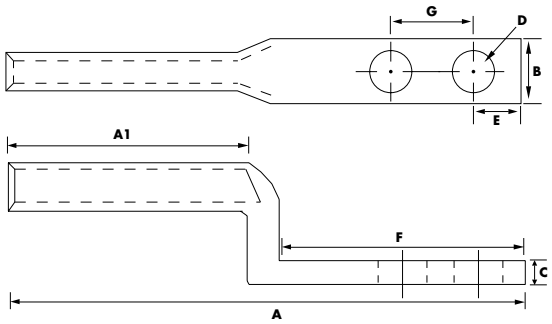
# Long Barrel Stacking Copper Lugs

SL-N SERIES



## FEATURES

- Designed for use with the L-N Series.
- Produced from high conductivity copper tubing for heavy duty applications.
- Tin-Plated to provide corrosion resistance.
- Marked with die index and color coded.
- Additional hole spacing options available on request.
- For use with LN Series.




## RATINGS

c UL us

**TEMPERATURE RATING:**
90 °C.

**RATING:**
600V.

Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.

* CLASS B OR C BUILDING WIRE CU CABLE ONLY

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE | MTG. HOLE SPACING (G) | LENGTH (A) | WIDTH (B) | END CONN. TO CTR. (E) | TANG LENGTH (F) | BARREL LENGTH (A1) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SL40N** | 4/0 AWG | 4/0 - 1 AWG | Purple | 0.500 | 1.750 | 5.188 | 1.500 | 0.625 | 3.000 | 1.625 | 25 |
| **SL250N** | 250 MCM | 250 MCM - 1/0 AWG | Yellow | 0.500 | 1.750 | 5.438 | 1.125 | 0.625 | 3.000 | 1.688 | 25 |
| **SL300N** | 300 MCM | 300-2/0 AWG | White | 0.500 | 1.750 | 5.580 | 1.083 | 0.625 | 3.000 | 1.715 | 25 |
| **SL350N** | 350 MCM | 350 MCM - 3/0 AWG | Red | 0.500 | 1.750 | 5.750 | 1.938 | 0.625 | 3.000 | 1.875 | 25 |
| **SL500N** | 500 MCM | 500 - 250 MCM | Brown | 0.500 | 1.750 | 6.063 | 1.563 | 0.625 | 3.125 | 2.250 | 6 |
| **SL600N** | 600 MCM | 600 - 250 MCM | Green | 0.500 | 1.750 | 6.750 | 1.688 | 0.625 | 3.125 | 2.625 | 6 |
| **SL750N** | 750 MCM | 750 - 500 MCM | Black | 0.500 | 1.750 | 6.800 | 1.758 | 0.660 | 2.980 | 2.957 | 3 |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts





nsi INDUSTRIES

COMPRESSION CONNECTORS

# Stacking Adapters for Compression Terminals

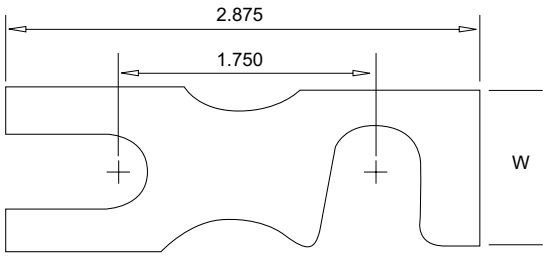
SA SERIES





## FEATURES

- Tin-plated pure aluminum for good conductivity and corrosion resistance.
- Allows for stacking of standard two hole compression lugs and keeps inventories to a minimum.
- To stack 4-hole NECA drilled terminals, use two adapters assembled in parallel.




## RATINGS

**RATING:**
600V.

| CAT. NO. | HEIGHT | CONNECTOR SIZE RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **SA10-400** | 0.875 | 1/0-400 MCM | 10 |
| **SA500-1000** | 1.125 | 500-1000 MCM | 6 |

COMPRESSION CONNECTORS

# Short Barrel Copper Lugs One Hole With Peep Hole

GL SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **GL810** | 8 AWG | 8 AWG |
| **GL814** | 8 AWG | 8 AWG |
| **GL838** | | |
| **GL856** | 8 AWG | 8 AWG |
| **GL614** | 6 AWG | 6 - 8 AWG |
| **GL656** | 6 AWG | 6 - 8 AWG |
| **GL638** | 6 AWG | 6 - 8 AWG |
| **GL414** | 4 AWG | 4 - 6 AWG |
| **GL456** | 4 AWG | 4 - 6 AWG |
| **GL438** | 4 AWG | 4 - 6 AWG |
| **GL338** | 3 AWG | 3 - 6 AWG |
| **GL214** | 2 AWG | 2 - 6 AWG |
| **GL256** | 2 AWG | 2 - 6 AWG |
| **GL238** | 2 AWG | 2 - 6 AWG |
| **GL114** | 1 AWG | 1 - 6 AWG |
| **GL156** | 1 AWG | 1 - 6 AWG |
| **GL138** | 1 AWG | 1 - 6 AWG |
| **GL1056** | 1/0 AWG | 1/0 - 6 AWG |
| **GL1038** | 1/0 AWG | 1/0 - 6 AWG |
| **GL1048** | 1/0 AWG | 1/0 - 6 AWG |
| **GL2056** | 2/0 AWG | 2/0 - 4 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

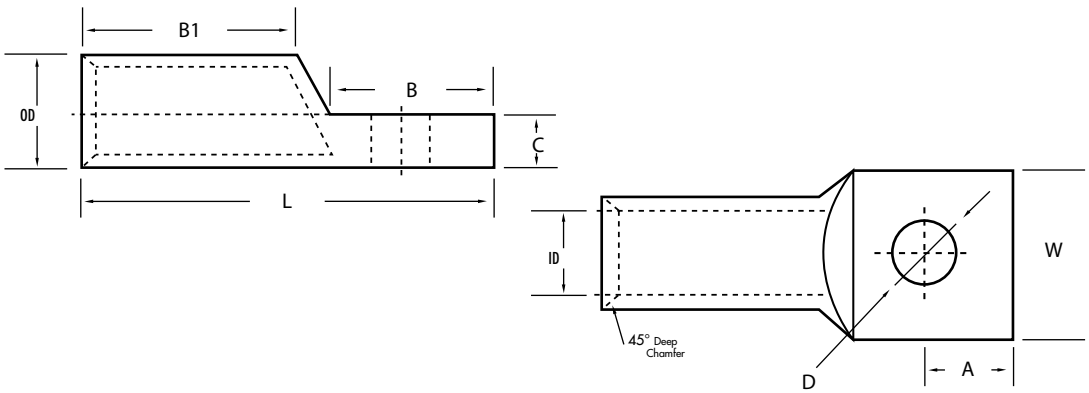




nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | I.D. | O.D. | LENGTH (L) | WIDTH (W) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Red | #10 | 0.173 | 0.272 | 1.201 | 0.421 | 0.276 | 0.591 | 0.441 | 0.079 | 0.209 | 100 |
| Red | 1/4 | 0.173 | 0.272 | 1.201 | 0.421 | 0.276 | 0.591 | 0.441 | 0.079 | 0.252 | 100 |
| | | | | | | | | | | | |
| Red | 5/16 | 0.173 | 0.272 | 1.201 | 0.421 | 0.276 | 0.591 | 0.441 | 0.079 | 0.330 | 100 |
| Blue | 1/4 | 0.205 | 0.295 | 1.496 | 0.421 | 0.295 | 0.669 | 0.709 | 0.083 | 0.252 | 100 |
| Blue | 5/16 | 0.205 | 0.295 | 1.496 | 0.488 | 0.295 | 0.669 | 0.709 | 0.067 | 0.331 | 100 |
| Blue | 3/8 | 0.205 | 0.295 | 1.496 | 0.488 | 0.295 | 0.669 | 0.709 | 0.067 | 0.410 | 100 |
| Gray | 1/4 | 0.252 | 0.343 | 1.496 | 0.488 | 0.315 | 0.669 | 0.709 | 0.079 | 0.252 | 100 |
| Gray | 5/16 | 0.252 | 0.343 | 1.496 | 0.488 | 0.315 | 0.669 | 0.709 | 0.079 | 0.331 | 100 |
| Gray | 3/8 | 0.252 | 0.343 | 1.496 | 0.559 | 0.315 | 0.669 | 0.709 | 0.079 | 0.413 | 100 |
| White | 3/8 | 0.277 | 0.372 | 1.984 | 0.594 | 0.375 | 0.875 | 0.885 | 0.086 | 0.399 | 50 |
| Brown | 1/4 | 0.315 | 0.421 | 1.795 | 0.602 | 0.370 | 0.811 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 5/16 | 0.315 | 0.421 | 1.795 | 0.602 | 0.370 | 0.811 | 0.827 | 0.102 | 0.331 | 50 |
| Brown | 3/8 | 0.315 | 0.421 | 1.795 | 0.602 | 0.370 | 0.811 | 0.827 | 0.102 | 0.413 | 50 |
| Green | 1/4 | 0.358 | 0.469 | 1.835 | 0.673 | 0.370 | 0.811 | 0.827 | 0.106 | 0.252 | 50 |
| Green | 5/16 | 0.358 | 0.469 | 1.835 | 0.673 | 0.370 | 0.811 | 0.827 | 0.106 | 0.331 | 50 |
| Green | 3/8 | 0.358 | 0.469 | 1.835 | 0.673 | 0.394 | 0.811 | 0.827 | 0.106 | 0.413 | 50 |
| Pink | 5/16 | 0.390 | 0.520 | 1.835 | 0.744 | 0.370 | 0.811 | 0.827 | 0.126 | 0.331 | 50 |
| Pink | 3/8 | 0.390 | 0.520 | 1.835 | 0.744 | 0.370 | 0.811 | 0.827 | 0.126 | 0.413 | 50 |
| Pink | 1/2 | 0.390 | 0.520 | 1.835 | 0.744 | 0.370 | 0.811 | 0.827 | 0.126 | 0.512 | 50 |
| Black | 5/16 | 0.441 | 0.563 | 2.244 | 0.815 | 0.472 | 1.063 | 0.945 | 0.118 | 0.331 | 25 |



COMPRESSION CONNECTORS

# Short Barrel Copper Lugs One Hole With Peep Hole

GL SERIES CONTINUED



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **GL2038** | 2/0 AWG | 2/0 - 4 AWG |
| **GL2048** | 2/0 AWG | 2/0 - 4 AWG |
| **GL3038** | 3/0 AWG | 3/0 - 2 AWG |
| **GL3048** | 3/0 AWG | 3/0 - 2 AWG |
| **GL4038** | 4/0 AWG | 4/0 - 1 AWG |
| **GL4048** | 4/0 AWG | 4/0 - 1 AWG |
| **GL25038** | 250 MCM | 250 MCM - 1/0 AWG |
| **GL25048** | 250 MCM | 250 MCM - 1/0 AWG |
| **GL30048** | 300 MCM | 300 MCM - 2/0 AWG |
| **GL35038** | 350 MCM | 350 MCM - 3/0 AWG |
| **GL35048** | 350 MCM | 350 MCM - 3/0 AWG |
| **GL40048** | 400 MCM | 400 MCM - 4/0 AWG |
| **GL50048** | 500 MCM | 500 - 250 MCM |
| **GL50058** | 500 MCM | 500 - 250 MCM |
| **GL60048** | 600 MCM | 600 - 250 MCM |
| **GL60058** | 600 MCM | 600 - 250 MCM |
| **GL75048** | 750 MCM | 750 - 500 MCM |
| **GL75058** | 750 MCM | 750 - 500 MCM |
| **GL10058** | 1000 MCM | |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

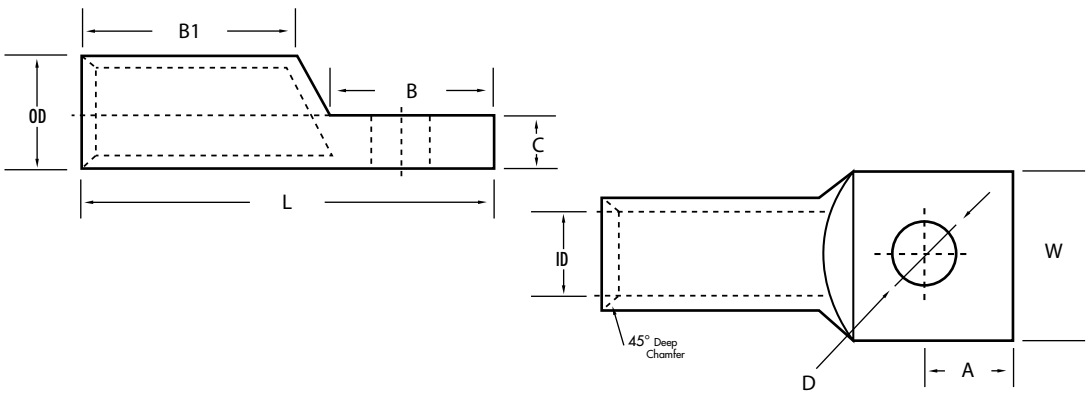




nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | I.D. | O.D. | LENGTH (L) | WIDTH (W) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Black | 3/8 | 0.441 | 0.563 | 2.244 | 0.815 | 0.472 | 1.063 | 0.945 | 0.118 | 0.413 | 25 |
| Black | 1/2 | 0.441 | 0.563 | 2.244 | 0.815 | 0.472 | 1.063 | 0.945 | 0.118 | 0.512 | 25 |
| Orange | 3/8 | 0.492 | 0.622 | 2.362 | 0.902 | 0.472 | 1.063 | 0.984 | 0.126 | 0.413 | 25 |
| Orange | 1/2 | 0.492 | 0.622 | 2.362 | 0.902 | 0.472 | 1.063 | 0.984 | 0.126 | 0.512 | 25 |
| Purple | 3/8 | 0.547 | 0.689 | 2.362 | 1.000 | 0.472 | 1.063 | 0.984 | 0.134 | 0.413 | 25 |
| Purple | 1/2 | 0.547 | 0.689 | 2.362 | 1.000 | 0.472 | 1.063 | 0.984 | 0.134 | 0.512 | 25 |
| Yellow | 3/8 | 0.594 | 0.752 | 2.480 | 1.091 | 0.472 | 1.063 | 1.063 | 0.150 | 0.413 | 25 |
| Yellow | 1/2 | 0.594 | 0.752 | 2.480 | 1.091 | 0.472 | 1.063 | 1.063 | 0.150 | 0.512 | 25 |
| White | 1/2 | 0.657 | 0.815 | 2.480 | 1.189 | 0.520 | 1.063 | 1.063 | 0.150 | 0.512 | 12 |
| Red | 3/8 | 0.692 | 0.875 | 1.625 | 1.281 | 0.395 | 0.875 | 1.112 | 0.173 | 0.391 | 12 |
| Red | 1/2 | 0.701 | 0.874 | 2.606 | 1.276 | 0.520 | 1.063 | 1.102 | 0.165 | 0.512 | 12 |
| Blue | 1/2 | 0.764 | 0.949 | 3.079 | 1.386 | 0.520 | 1.378 | 1.181 | 0.177 | 0.512 | 6 |
| Brown | 1/2 | 0.835 | 1.063 | 3.276 | 1.539 | 0.520 | 1.378 | 1.378 | 0.217 | 0.512 | 6 |
| Brown | 5/8 | 0.835 | 1.063 | 3.276 | 1.539 | 0.520 | 1.378 | 1.378 | 0.217 | 0.669 | 6 |
| Green | 1/2 | 0.925 | 1.189 | 3.504 | 1.717 | 0.520 | 1.457 | 1.496 | 0.252 | 0.512 | 6 |
| Green | 5/8 | 0.925 | 1.189 | 3.504 | 1.717 | 0.689 | 1.457 | 1.496 | 0.252 | 0.669 | 6 |
| Black | 1/2 | 1.022 | 1.295 | 3.866 | 1.760 | 0.685 | 1.550 | 1.743 | 0.277 | 0.541 | 3 |
| Black | 5/8 | 1.031 | 1.311 | 4.370 | 1.902 | 0.689 | 1.850 | 1.850 | 0.268 | 0.669 | 3 |
| White | 5/8 | 1.158 | 1.491 | 4.085 | 2.151 | 0.730 | 1.675 | 1.789 | 0.327 | 0.669 | 3 |



COMPRESSION CONNECTORS

# Short Barrel Copper Lugs Two Hole With Peep

GL-N SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.

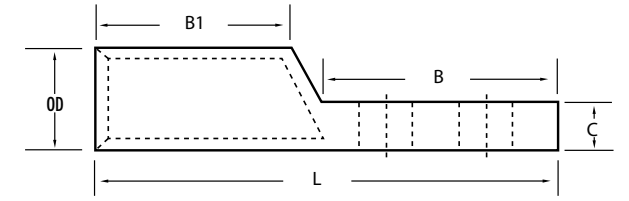
Note: Part numbers ending in "X" have no peep hole.

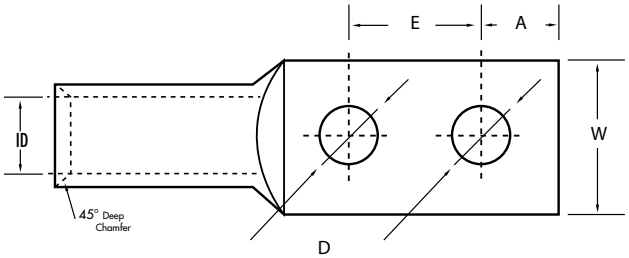
## RATINGS

c UL us
LISTED
155027

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY




All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| GL6N-141 | 6 AWG | 6 - 8 AWG |
| GL6N-141X | 6 AWG | 6 - 8 AWG |
| GL6N-143 | 6 AWG | 6 - 8 AWG |
| GL6N-38 | 6 AWG | 6 - 8 AWG |
| GL4N-141 | 4 AWG | 4 - 6 AWG |
| GL4N-38 | 4 AWG | 4 - 6 AWG |
| GL2N-141 | 2 AWG | 2 - 6 AWG |
| GL2N-141X | 2 AWG | 2 - 6 AWG |
| GL2N-142 | 2 AWG | 2 - 6 AWG |
| GL2N-143 | 2 AWG | 2 - 6 AWG |
| GL2N-38 | 2 AWG | 2 - 6 AWG |
| GL2N-38X | 2 AWG | 2 - 6 AWG |
| GL1N-38 | 1 AWG | 1 - 6 AWG |
| GL10N-38 | 1/0 AWG | 1/0 - 6 AWG |
| GL10N-38X | 1/0 AWG | 1/0 - 6 AWG |
| GL20N | 2/0 AWG | 2/0 - 4 AWG |
| GL20N-38 | 2/0 AWG | 2/0 - 4 AWG |
| GL30N | 3/0 AWG | 3/0 - 2 AWG |
| GL30N-38 | 3/0 AWG | 3/0 - 2 AWG |
| GL40N | 4/0 AWG | 4/0 - 1 AWG |
| GL40N-38 | 4/0 AWG | 4/0 - 1 AWG |
| GL250N | 250 MCM | 250 MCM - 1/0 AWG |
| GL250N-38 | 250 MCM | 250 MCM - 1/0 AWG |
| GL350N | 350 MCM | 350 MCM - 3/0 AWG |
| GL350N-38 | 350 MCM | 350 MCM - 3/0 AWG |
| GL400N | 400 MCM | 400 MCM - 4/0 AWG |
| GL500N | 500 MCM | 500 - 250 MCM |
| GL500N-38 | 500 MCM | 500 - 250 MCM |
| GL600N | 600 MCM | 600 - 250 MCM |
| GL750N | 750 MCM | 750 - 500 MCM |
| GL1000N | 1000 MCM | |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts





nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | MTG. HOLE SPACING (E) | I.D. | O.D. | LENGTH (L) | WIDTH (W) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blue | 1/4 | 0.625 | 0.205 | 0.295 | 2.087 | 0.421 | 0.280 | 1.260 | 0.709 | 0.083 | 0.252 | 100 |
| Blue | 1/4 | 0.625 | 0.205 | 0.295 | 2.087 | 0.421 | 0.280 | 1.260 | 0.709 | 0.083 | 0.252 | 100 |
| Blue | 1/4 | 1.000 | 0.205 | 0.295 | 2.638 | 0.421 | 0.280 | 1.811 | 0.709 | 0.083 | 0.252 | 100 |
| Blue | 3/8 | 1.000 | 0.205 | 0.295 | 2.638 | 0.488 | 0.382 | 1.811 | 0.709 | 0.087 | 0.413 | 100 |
| Gray | 1/4 | 0.625 | 0.252 | 0.343 | 2.087 | 0.488 | 0.280 | 1.260 | 0.709 | 0.087 | 0.252 | 100 |
| Gray | 3/8 | 1.000 | 0.252 | 0.343 | 2.677 | 0.488 | 0.382 | 1.811 | 0.748 | 0.087 | 0.413 | 100 |
| Brown | 1/4 | 0.625 | 0.315 | 0.421 | 2.283 | 0.602 | 0.280 | 1.260 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 1/4 | 0.625 | 0.315 | 0.421 | 2.283 | 0.602 | 0.280 | 1.260 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 1/4 | 0.750 | 0.315 | 0.421 | 2.362 | 0.602 | 0.280 | 1.378 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 1/4 | 1.000 | 0.315 | 0.421 | 2.795 | 0.602 | 0.280 | 1.811 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 3/8 | 1.000 | 0.315 | 0.421 | 2.835 | 0.602 | 0.280 | 1.811 | 0.827 | 0.102 | 0.413 | 50 |
| Brown | 3/8 | 1.000 | 0.315 | 0.421 | 2.835 | 0.602 | 0.280 | 1.811 | 0.827 | 0.102 | 0.413 | 50 |
| Green | 3/8 | 1.000 | 0.350 | 0.463 | 3.024 | 0.672 | 0.345 | 1.842 | 0.955 | 0.106 | 0.404 | 50 |
| Pink | 3/8 | 1.000 | 0.390 | 0.520 | 2.835 | 0.744 | 0.382 | 1.811 | 0.827 | 0.126 | 0.413 | 50 |
| Pink | 3/8 | 1.000 | 0.390 | 0.520 | 2.835 | 0.744 | 0.382 | 1.811 | 0.827 | 0.126 | 0.413 | 50 |
| Black | 1/2 | 1.750 | 0.441 | 0.563 | 4.173 | 0.815 | 0.618 | 2.992 | 0.945 | 0.118 | 0.512 | 25 |
| Black | 3/8 | 1.000 | 0.441 | 0.563 | 2.992 | 0.815 | 0.382 | 1.811 | 0.945 | 0.118 | 0.413 | 25 |
| Orange | 1/2 | 1.750 | 0.492 | 0.622 | 4.291 | 0.902 | 0.618 | 2.992 | 0.984 | 0.126 | 0.512 | 25 |
| Orange | 3/8 | 1.000 | 0.492 | 0.622 | 3.110 | 0.902 | 0.382 | 1.811 | 0.984 | 0.126 | 0.413 | 25 |
| Purple | 1/2 | 1.750 | 0.547 | 0.689 | 4.291 | 1.000 | 0.618 | 2.992 | 0.984 | 0.134 | 0.512 | 25 |
| Purple | 3/8 | 1.000 | 0.547 | 0.689 | 3.110 | 1.000 | 0.382 | 1.811 | 0.984 | 0.134 | 0.413 | 25 |
| Yellow | 1/2 | 1.750 | 0.594 | 0.752 | 4.409 | 1.091 | 0.618 | 2.992 | 1.063 | 0.150 | 0.512 | 25 |
| Yellow | 3/8 | 1.000 | 0.594 | 0.752 | 3.228 | 1.091 | 0.382 | 1.811 | 1.063 | 0.150 | 0.413 | 25 |
| Red | 1/2 | 1.750 | 0.701 | 0.874 | 4.528 | 1.276 | 0.618 | 2.992 | 1.102 | 0.165 | 0.512 | 12 |
| Red | 3/8 | 1.000 | 0.701 | 0.874 | 3.346 | 1.276 | 0.382 | 1.811 | 1.102 | 0.165 | 0.413 | 12 |
| Blue | 1/2 | 1.750 | 0.764 | 0.949 | 4.685 | 1.386 | 0.618 | 2.992 | 1.181 | 0.177 | 0.512 | 6 |
| Brown | 1/2 | 1.750 | 0.839 | 1.063 | 4.882 | 1.539 | 0.618 | 2.992 | 1.378 | 0.217 | 0.512 | 6 |
| Brown | 3/8 | 1.000 | 0.839 | 1.063 | 3.701 | 1.539 | 0.382 | 1.811 | 1.378 | 0.217 | 0.413 | 6 |
| Green | 1/2 | 1.750 | 0.925 | 1.189 | 5.039 | 1.717 | 0.618 | 2.992 | 1.496 | 0.252 | 0.512 | 6 |
| Black | 1/2 | 1.750 | 1.043 | 1.311 | 5.512 | 1.902 | 0.618 | 2.992 | 1.850 | 0.268 | 0.512 | 3 |
| White | 1/2 | 1.750 | 1.173 | 1.492 | 5.870 | 2.158 | 0.620 | 3.436 | 1.910 | 0.331 | 0.544 | 1 |

COMPRESSION CONNECTORS

# Copper Splice Short Barrel

SC SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Serrations indicate proper crimp locations.
- Tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Suitable for use at voltages up to 35KV provided connector is properly taped.
- 5KV is the maximum voltage in all bare splices.
- For applications greater than 2000V, consult the cable manufacturer for voltage stress relief instructions.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| SC-8 | 8 AWG | 8 AWG |
| SC-6 | 6 AWG | 6 - 8 AWG |
| SC-4 | 4 AWG | 4 - 6 AWG |
| SC-3 | 3 AWG | 3 - 6 AWG |
| SC-2 | 2 AWG | 2 - 6 AWG |
| SC-1 | 1 AWG | 1 - 6 AWG |
| SC-1/0 | 1/0 AWG | 1/0 - 6 AWG |
| SC-2/0 | 2/0 AWG | 2/0 - 4 AWG |
| SC-3/0 | 3/0 AWG | 3/0 - 2 AWG |
| SC-4/0 | 4/0 AWG | 4/0 - 1 AWG |
| SC-250 | 250 MCM | 250 MCM - 1/0 AWG |
| SC-300 | 300 MCM | 300 MCM - 2/0 AWG |
| SC-350 | 350 MCM | 350 MCM - 3/0 AWG |
| SC-400 | 400 MCM | 400 MCM - 4/0 AWG |
| SC-500 | 500 MCM | 500 - 250 MCM |
| SC-600 | 600 MCM | 600 - 250 MCM |
| SC-750 | 750 MCM | 750-500 MCM |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

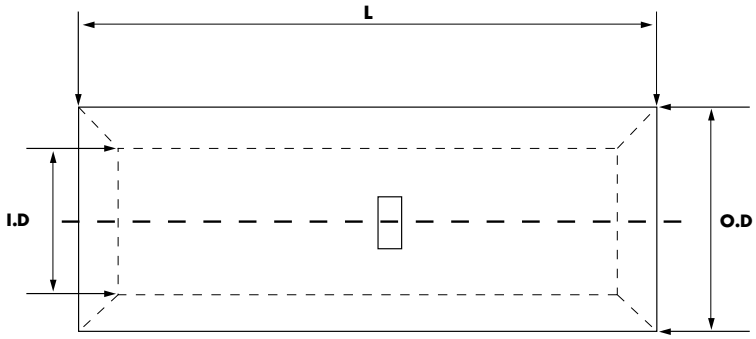




nsi INDUSTRIES



| COLOR CODE | I.D. | O.D. | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|---|
| Red | 0.173 | 0.272 | 0.902 | 100 |
| Blue | 0.205 | 0.295 | 1.000 | 100 |
| Gray | 0.252 | 0.343 | 1.000 | 100 |
| White | 0.282 | 0.378 | 1.883 | 50 |
| Brown | 0.315 | 0.421 | 1.252 | 50 |
| Green | 0.358 | 0.469 | 1.799 | 50 |
| Pink | 0.390 | 0.520 | 1.598 | 50 |
| Black | 0.441 | 0.563 | 1.752 | 25 |
| Orange | 0.492 | 0.622 | 1.752 | 25 |
| Purple | 0.547 | 0.689 | 1.902 | 25 |
| Yellow | 0.594 | 0.752 | 2.000 | 25 |
| White | 0.657 | 0.815 | 2.098 | 12 |
| Red | 0.701 | 0.874 | 2.098 | 12 |
| Blue | 0.764 | 0.949 | 2.299 | 6 |
| Brown | 0.835 | 1.063 | 2.500 | 6 |
| Green | 1.189 | 1.189 | 2.500 | 6 |
| Black | 1.031 | 1.311 | 3.201 | 3 |



COMPRESSION CONNECTORS

# Copper Splice Long Barrel

C SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Serrations indicate proper crimp locations.
- Tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Suitable for use at voltages up to 35KV provided connector is properly taped.
- 5KV is the maximum voltage in all bare splices.
- For applications greater than 2000V, consult the cable manufacturer for voltage stress relief instructions.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| C-8 | 8 AWG | 8 AWG |
| C-6 | 6 AWG | 6 - 8 AWG |
| C-4 | 4 AWG | 4 - 6 AWG |
| C-3 | 3 AWG | 3 - 6 AWG |
| C-2 | 2 AWG | 2 - 6 AWG |
| C-1 | 1 AWG | 1 - 6 AWG |
| C-1/0 | 1/0 AWG | 1/0 - 6 AWG |
| C-2/0 | 2/0 AWG | 2/0 - 4 AWG |
| C-3/0 | 3/0 AWG | 3/0 - 2 AWG |
| C-4/0 | 4/0 AWG | 4/0 - 1 AWG |
| C-250 | 250 MCM | 250 MCM - 1/0 AWG |
| C-300 | 300 MCM | 300 MCM - 2/0 AWG |
| C-350 | 350 MCM | 350 MCM - 3/0 AWG |
| C-400 | 400 MCM | 400 MCM - 4/0 AWG |
| C-500 | 500 MCM | 500 - 250 MCM |
| C-600 | 600 MCM | 600 - 250 MCM |
| C-750 | 750 MCM | 750-500 MCM |
| C-1000 | 1000 MCM | 1000-750 MCM |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

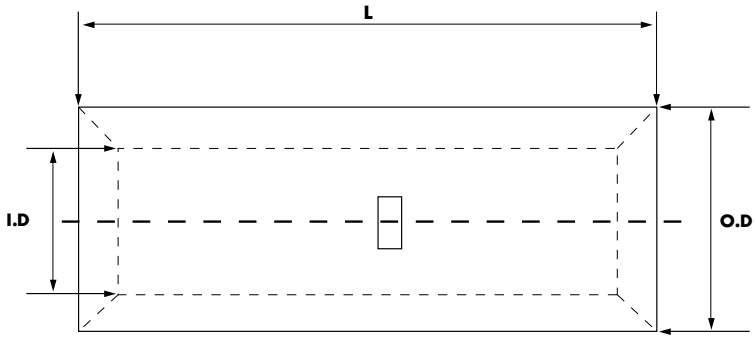




nsi INDUSTRIES



| COLOR CODE INDEX | I.D. | O.D. | LENGTH (L) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| Red | 0.173 | 0.272 | 1.752 | 100 |
| Blue | 0.205 | 0.295 | 1.752 | 100 |
| Gray | 0.252 | 0.343 | 1.752 | 100 |
| White | 0.282 | 0.378 | 2.381 | 50 |
| Brown | 0.315 | 0.421 | 1.902 | 50 |
| Green | 0.358 | 0.469 | 2.201 | 50 |
| Pink | 0.390 | 0.520 | 2.201 | 50 |
| Black | 0.441 | 0.563 | 2.252 | 25 |
| Orange | 0.492 | 0.622 | 2.252 | 25 |
| Purple | 0.547 | 0.689 | 2.752 | 25 |
| Yellow | 0.594 | 0.752 | 3.252 | 25 |
| White | 0.657 | 0.815 | 3.504 | 12 |
| Red | 0.701 | 0.874 | 3.752 | 12 |
| Blue | 0.764 | 0.949 | 3.752 | 6 |
| Brown | 0.835 | 1.063 | 4.252 | 6 |
| Green | 1.189 | 1.189 | 4.500 | 6 |
| Black | 1.031 | 1.311 | 4.752 | 3 |
| White | 1.189 | 1.527 | 6.122 | 3 |



COMPRESSION CONNECTORS

# For Flexible Copper Cable – One Hole Short Barrel (Peep Hole)

GL-B SERIES



## FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **GL214B** | 2 AWG | 2 - 6 AWG |
| **GL256B** | 2 AWG | 2 - 6 AWG |
| **GL156B** | 1 AWG | 1 - 6 AWG |
| **GL1056B** | 1/0 AWG | 1/0 - 6 AWG |
| **GL2038B** | 2/0 AWG | 2/0 - 4 AWG |
| **GL3038B** | 3/0 AWG | 3/0 - 2 AWG |
| **GL3048B** | 3/0 AWG | 3/0 - 2 AWG |
| **GL4048B** | 4/0 AWG | 4/0 - 1 AWG |
| **GL25038B** | 250 MCM | 250 MCM - 1/0 AWG |
| **GL25048B** | 250 MCM | 250 MCM - 1/0 AWG |
| **GL30048B** | 300 MCM | 300 MCM - 2/0 AWG |
| **GL35058B** | 350 MCM | 350 MCM - 3/0 AWG |
| **GL50058B** | 400 MCM | 400 MCM - 4/0 AWG |
| **GL60058B** | 500 MCM | 500 - 250 MCM |
| **GL70058B** | 600 MCM | 600 - 250 MCM |
| **GL75058B** | 750 MCM | 750-500 MCM |
| **GL10058B** | 1000 MCM | 1000-500 MCM |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

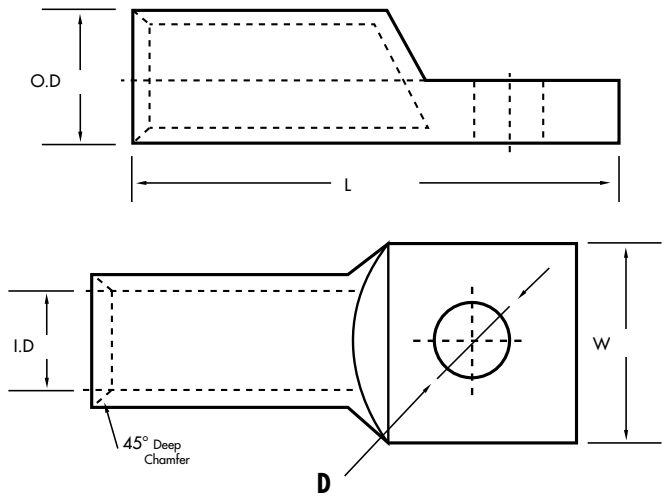




nsi INDUSTRIES



| COLOR CODE | COMM | CABLE SIZE ASTM CLASS H | CABLE SIZE WELDING CLASS M | CABLE SIZE DIESEL LOCOMOTIVE | BOLT SIZE (D) | I.D. | O.D. | LENGTH (L) | WIDTH (W) |
|---|---|---|---|---|---|---|---|---|---|
| Brown | 2 | 4 | 4 | (125) | 1/4 | 0.315 | 0.421 | 1.800 | 0.600 |
| Brown | 2 | 4 | 4 | (125) | 5/16 | 0.315 | 0.421 | 1.800 | 0.600 |
| Green | 1 | 2 | 2 | (150) | 5/16 | 0.358 | 0.469 | 1.830 | 0.670 |
| Pink | 1/0 | 1 | 1 | (225) | 5/16 | 0.390 | 0.520 | 1.830 | 0.740 |
| Black | 2/0 | 1/0 | 1/0 | 1/0 (275) | 3/8 | 0.441 | 0.563 | 2.240 | 0.810 |
| Orange | 3/0 | 2/0 | - | 2/0 (325) | 3/8 | 0.492 | 0.622 | 2.360 | 0.900 |
| Orange | 3/0 | 2/0 | - | 2/0 (325) | 1/2 | 0.492 | 0.622 | 2.360 | 0.900 |
| Purple | 4/0 | 3/0 | 2/0 | 3/0 (450) | 1/2 | 0.547 | 0.689 | 2.360 | 1.000 |
| Yellow | 250 | - | 3/0 | 4/0 (550) | 3/8 | 0.594 | 0.752 | 2.480 | 1.090 |
| Yellow | 250 | - | 3/0 | 4/0 (550) | 1/2 | 0.594 | 0.752 | 2.480 | 1.090 |
| White | 300 | 4/0 | 4/0 | 262.6 | 1/2 | 0.657 | 0.815 | 2.490 | 1.190 |
| Red | 350 | 250 | 250 | 313.1 | 5/8 | 0.692 | 0.875 | 2.910 | 1.280 |
| Brown | 500 | 350 | 300 | 373.3 | 5/8 | 0.835 | 1.063 | 3.280 | 1.540 |
| Green | 600 | 400 | 350 | 444.4 | 5/8 | 0.925 | 1.189 | 3.500 | 1.720 |
| Pink | 700 | 500 | 400 | 535.3 | 5/8 | 1.031 | 1.311 | | |
| Black | 750 | 600 | 500 | - | 5/8 | 1.031 | 1.311 | 4.370 | 1.950 |
| White | 1000 | 800 | 700 | 777.7 | 5/8 | 1.158 | 1.491 | 4.769 | 2.170 |



COMPRESSION CONNECTORS

# For Flexible Copper Cable – One Hole Long Barrel

L-B SERIES



## FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **L638B** | 6 AWG | 6-8 AWG |
| **L438B** | 4 AWG | 4 - 6 AWG |
| **L256B** | 2 AWG | 2 - 6 AWG |
| **L238B** | 2 AWG | 2 - 6 AWG |
| **L156B** | 1 AWG | 1 - 6 AWG |
| **L1056B** | 1/0 AWG | 1/0 - 6 AWG |
| **L2038B** | 2/0 AWG | 2/0 - 4 AWG |
| **L3038B** | 3/0 AWG | 3/0 - 2 AWG |
| **L3048B** | 3/0 AWG | 3/0 - 2 AWG |
| **L4048B** | 4/0 AWG | 4/0 - 1 AWG |
| **L25038B** | 250 MCM | 250 MCM - 1/0 AWG |
| **L25048B** | 250 MCM | 250 MCM - 1/0 AWG |
| **L30048B** | 300 MCM | 300 MCM - 2/0 AWG |
| **L35058B** | 350 MCM | 350 MCM - 3/0 AWG |
| **L50058B** | 500 MCM | 500 - 250 MCM |
| **L60058B** | 600 MCM | 600 - 250 MCM |
| **L70048B** | 700 MCM | 700-500 MCM |
| **L70058B** | 700 MCM | 700-500 MCM |
| **L75058B** | 750 MCM | 750-500 MCM |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

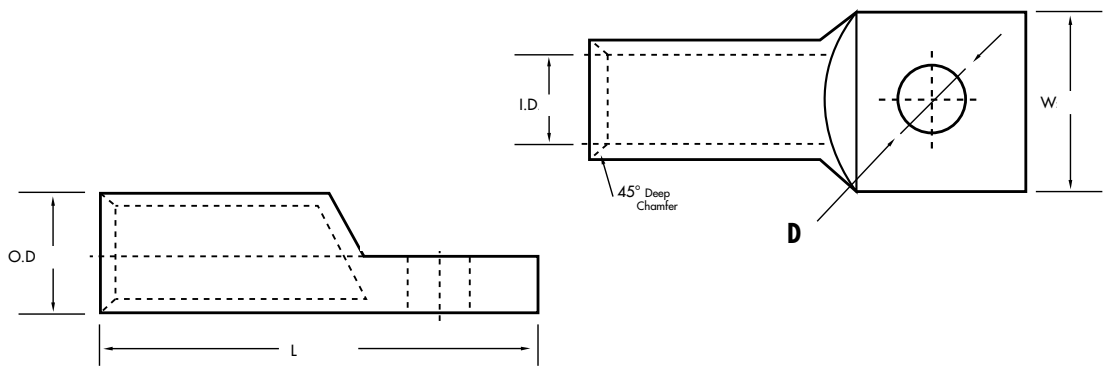




nsi INDUSTRIES



| COLOR CODE | CABLE SIZE | | | | LENGTH (L) | BOLT SIZE (D) | WIDTH (W) | I.D. | O.D. |
|---|---|---|---|---|---|---|---|---|---|
| | COMM | ASTM CLASS H | WELDING CLASS M | DIESEL LOCOMOTIVE | | | | | |
| Blue | 6 | 8 | 8 | (61) | 1.910 | 3/8 | 0.590 | 0.205 | 0.295 |
| Grey | 4 | 6 | 6 | (105) | 1.910 | 3/8 | 0.590 | 0.252 | 0.343 |
| Brown | 2 | 4 | 4 | (125) | 2.070 | 5/16 | 0.600 | 0.315 | 0.421 |
| Brown | 2 | 4 | 4 | (125) | 2.070 | 3/8 | 0.600 | 0.315 | 0.421 |
| Green | 1 | 2 | 2 | (150) | 2.110 | 5/16 | 0.670 | 0.358 | 0.469 |
| Pink | 1/0 | 1 | 1 | (225) | 2.210 | 5/16 | 0.740 | 0.390 | 0.520 |
| Black | 2/0 | 1/0 | 1/0 | 1/0 (275) | 2.680 | 3/8 | 0.810 | 0.441 | 0.563 |
| Orange | 3/0 | 2/0 | - | 2/0 (325) | 2.800 | 3/8 | 0.900 | 0.492 | 0.622 |
| Orange | 3/0 | 2/0 | - | 2/0 (325) | 2.800 | 1/2 | 1.000 | 0.492 | 0.622 |
| Purple | 4/0 | 3/0 | 2/0 | 3/0 (450) | 2.800 | 1/2 | 1.000 | 0.547 | 0.689 |
| Yellow | 250 | - | 3/0 | 4/0 (550) | 3.030 | 3/8 | 1.090 | 0.594 | 0.752 |
| Yellow | 250 | - | 3/0 | 4/0 (550) | 3.030 | 1/2 | 1.090 | 0.594 | 1.752 |
| White | 300 | 4/0 | 4/0 | 262.6 | 3.390 | 1/2 | 1.190 | 0.651 | 1.815 |
| Red | 350 | 250 | 250 | 313.1 | 3.460 | 5/8 | 1.280 | 0.701 | 0.874 |
| Brown | 500 | 350 | 300 | 373.3 | 4.130 | 5/8 | 1.540 | 0.835 | 1.063 |
| Green | 600 | 400 | 350 | 444.4 | 4.256 | 5/8 | 1.720 | 0.925 | 1.189 |
| - | 700 | 500 | 400 | 535.3 | 4.922 | 1/2 | 1.690 | 0.975 | 1.241 |
| - | 700 | 500 | 400 | 535.3 | 5.094 | 5/8 | 1.702 | 0.962 | 1.241 |
| Black | 750 | 600 | 500 | - | 5.160 | 5/8 | 1.900 | 1.031 | 1.311 |



COMPRESSION CONNECTORS

# For Flexible Copper Cable – Two Hole Long Barrel

L-NB SERIES



## FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.
- NEMA spaced mounting holes (1¾"). (E Dimension)

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **L30NB** | 3/0 | 3/0 - 2 AWG |
| **L40NB** | 4/0 | 4/0 - 1 |
| **L250NB** | 250 | 250 - 1/0 |
| **L300NB** | 300 | 300 - 2/0 |
| **L350NB** | 350 | 350 - 3/0 |
| **L500NB** | 500 | 500 - 250 |
| **L600NB** | 600 | 600 - 250 |
| **L700NB** | 700 | 700 - 500 |
| **L750NB** | 750 | 750 - 500 |
| **L100NB** | 1000 | 1000 - 750 |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

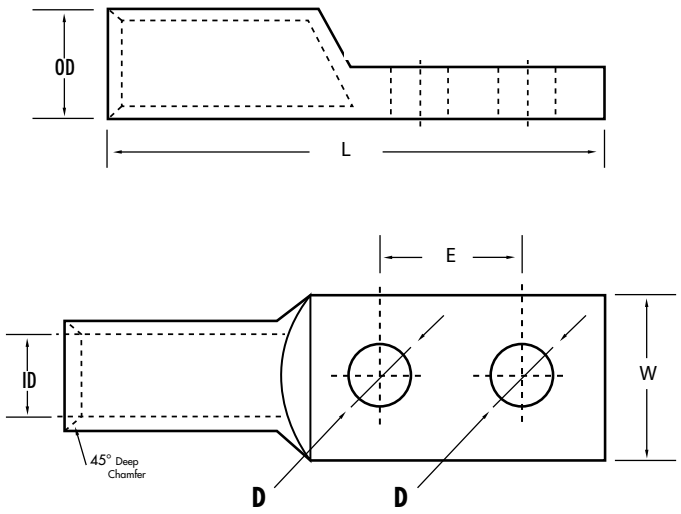




nsi INDUSTRIES



| COLOR CODE | LENGTH (L) | BOLT SIZE (D) | MOUNTING HOLE SPACING (E) | WIDTH (W) | I.D. | O.D. | COMM | CABLE SIZE | | DIESEL LOCOMOTIVE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ASTM CLASS H | CLASS M WELDING | | |
| Orange | 4.650 | 1/2 | 1.750 | 0.900 | 0.490 | 0.620 | 3/0 | 2/0 | – | 2/0 (325) | 12 |
| Purple | 4.720 | 1/2 | 1.750 | 1.000 | 0.550 | 0.690 | 4/0 | 3/0 | 2/0 | 3/0 (450) | 12 |
| Yellow | 4.960 | 1/2 | 1.750 | 1.090 | 0.590 | 0.750 | 250 | – | 3/0 | 4/0 (550) | 12 |
| White | 5.310 | 1/2 | 1.750 | 1.190 | 0.660 | 0.810 | 300 | 4/0 | 4/0 | 262.6 | 6 |
| Red | 5.390 | 1/2 | 1.750 | 1.280 | 0.700 | 0.870 | 350 | 250 | 250 | 313.1 | 6 |
| Brown | 5.750 | 1/2 | 1.750 | 1.540 | 0.840 | 1.060 | 500 | 350 | 300 | 373.3 | 3 |
| Green | 5.790 | 1/2 | 1.750 | 1.720 | 0.930 | 1.190 | 600 | 400 | 350 | 444.4 | 3 |
| Pink | 6.250 | 1/2 | 1.750 | 1.844 | 0.980 | 1.230 | 700 | 500 | 400 | 535.3 | 3 |
| Black | 6.300 | 1/2 | 1.750 | 1.900 | 1.030 | 1.310 | 750 | 600 | 500 | – | 3 |
| White | 7.125 | 1/2 | 1.750 | 2.160 | 1.150 | 1.500 | 1000 | 800 | 700 | 777.7 | 3 |



COMPRESSION CONNECTORS

# For Flexible Copper Cable – Two Hole Short Barrel (Peep Hole)

GL-NB SERIES



## FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.
- NEMA spaced mounting holes (1¾"). (E Dimension)

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **GL30NB** | 3/0 | 3/0 - 2 |
| **GL250NB** | 250 | 250 - 1/0 |
| **GL300NB** | 300 | 300 - 2/0 |
| **GL350NB** | 350 | 350 - 3/0 |
| **GL500NB** | 500 | 500 - 250 |
| **GL600NB** | 600 | 600 - 250 |
| **GL700NB** | 700 | 700-500 |
| **GL750NB** | 750 | 750 - 500 |
| **GL100NB** | 1000 | - |

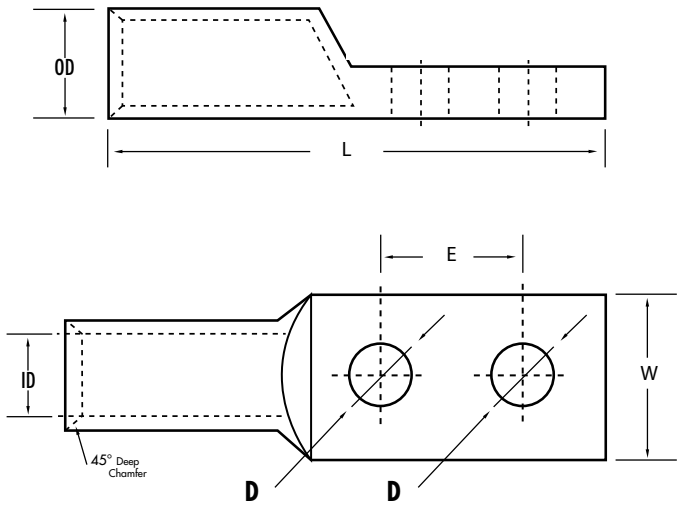
***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts



| COLOR CODE | BOLT SIZE | MOUNTING HOLE SPACING (E) | I.D. | O.D. | COMM | CABLE SIZE | | DIESEL LOCOMOTIVE | LENGTH (L) | WIDTH (W) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ASTM CLASS H | CLASS M WELDING | | | | |
| Orange | 1/2 | 1.750 | 0.492 | 0.622 | 3/0 | 2/0 | – | 2/0 (325) | 4.291 | 0.902 | 12 |
| Yellow | 1/2 | 1.750 | 0.590 | 0.752 | 250 | – | 3/0 | 4/0 (550) | 4.409 | 1.090 | 12 |
| White | 1/2 | 1.750 | 0.660 | 0.810 | 300 | 4/0 | 4/0 | 262.6 | 4.528 | 1.276 | 6 |
| Red | 1/2 | 1.750 | 0.700 | 0.870 | 350 | 250 | 250 | 313.1 | 4.528 | 1.276 | 6 |
| Brown | 1/2 | 1.750 | 0.840 | 1.060 | 500 | 350 | 300 | 373.3 | 4.882 | 1.540 | 3 |
| Green | 1/2 | 1.750 | 0.925 | 1.190 | 600 | 400 | 350 | 444.4 | 5.039 | 1.717 | 3 |
| Pink | 1/2 | 1.750 | 0.984 | 1.240 | 700 | - | - | - | 5.669 | 1.722 | 3 |
| Black | 1/2 | 1.750 | 1.040 | 1.310 | 750 | 600 | 500 | – | 5.512 | 1.900 | 3 |
| White | 1/2 | 1.750 | 1.173 | 1.492 | 1000 | 800 | 700 | 777.7 | 5.870 | 2.158 | 3 |



COMPRESSION CONNECTORS

# For Flexible Cable – Copper Short Barrel

SC-B SERIES



## FEATURES

- Splice has flared openings at both ends to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- Positive center stop.
- Tin-plated for corrosion resistance.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **SC-1B** | 1 AWG | 1 AWG |
| **SC-1/0B** | 1/0 AWG | 1/0 - 6 AWG |
| **SC-2/0B** | 2/0 AWG | 2/0 - 4 AWG |
| **SC-3/0B** | 3/0 AWG | 3/0 - 2 AWG |
| **SC-4/0B** | 4/0 AWG | 4/0 - 1 AWG |
| **SC-250B** | 250 MCM | 250 MCM - 1/0 AWG |
| **SC-300B** | 300 MCM | 300 MCM - 2/0 AWG |
| **SC-350B** | 350 MCM | 350 MCM - 3/0 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

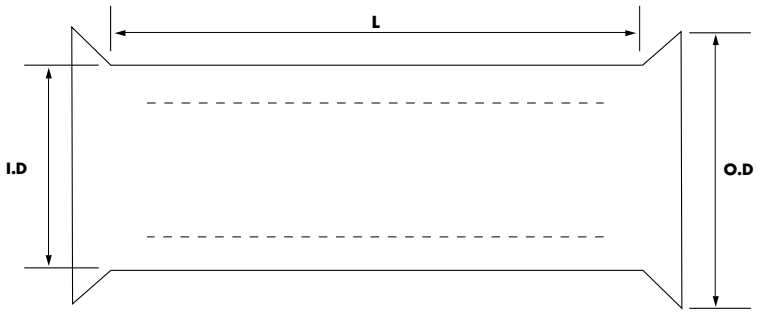




nsi INDUSTRIES



| COLOR CODE | LENGTH (L) | I.D. | O.D. | COMM | CABLE SIZE | | DIESEL LOCOMOTIVE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | | | | ASTM CLASS H | CLASS M WELDING | | |
| Green | 1.800 | 0.358 | 0.468 | 1 | - | - | - | 25 |
| Pink | 1.598 | 0.520 | 0.520 | 1/0 | 1 | 1 | (225) | 25 |
| Black | 1.752 | 0.560 | 0.563 | 2/0 | 1/0 | 1/0 | 1/0 (275) | 25 |
| Orange | 1.752 | 0.620 | 0.622 | 3/0 | 2/0 | – | 2/0 (325) | 25 |
| Purple | 1.902 | 0.690 | 0.689 | 4/0 | 3/0 | 2/0 | 3/0 (450) | 25 |
| Yellow | 2.000 | 0.750 | 0.752 | 250 | – | 3/0 | 4/0 (550) | 25 |
| White | 2.098 | 0.810 | 0.815 | 300 | 4/0 | 4/0 | 262.6 | 12 |
| Red | 2.098 | 0.870 | 0.874 | 350 | 250 | 250 | 313.1 | 12 |



COMPRESSION CONNECTORS

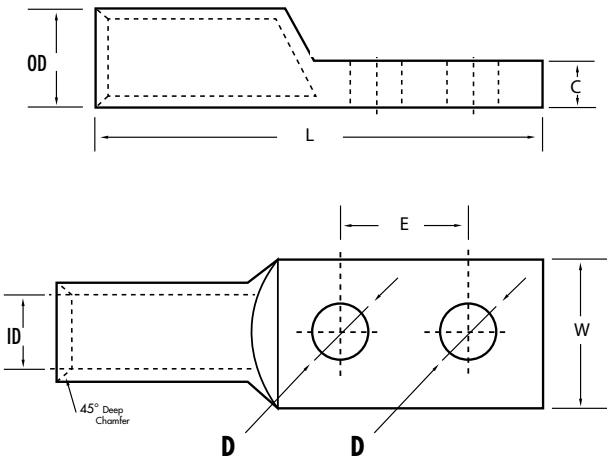
# For Copper Cable - Two Hole Short Barrel (No Peep Hole)

GLN-X SERIES



## FEATURES

- These connectors are the same as the GL-N Series – Short Barrel Copper Compression Lugs (with Peep Hole) except that they are provided without the peephole.
- Produced from high conductivity copper tubing, they are tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Listed for 35 KV maximum when properly installed.
- For bolt hole sizes not listed, please contact NSi.




## RATINGS

c UL us LISTED 155027

UL486A/B Listed.

* CLASS B OR C BUILDING WIRE CU CABLE ONLY

| CAT. NO. | WIRE SIZE | BOLT SIZE (D) | HOLE SPACING (E) | OD | ID | COLOR CODE | LENGTH (L) | WIDTH (W) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **GL6N-141X** | 6 | 1/4 | 0.625 | | | Blue | 2.560 | 0.450 | 0.080 | 100 |
| **GL2N-141X** | 2 | 1/4 | 0.625 | | | Brown | 2.460 | 0.610 | 0.110 | 50 |
| **GL2N-38X** | 2 | 3/8 | 1.000 | | | Brown | 3.050 | 0.610 | 0.110 | 50 |
| **GL10N-38X** | 1/0 | 3/8 | 1.000 | | | Pink | 3.140 | 0.750 | 0.120 | 50 |

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143



Scan QR to view Tool & Die Charts



nsi INDUSTRIES

COMPRESSION CONNECTORS

# Copper Soldering Lugs

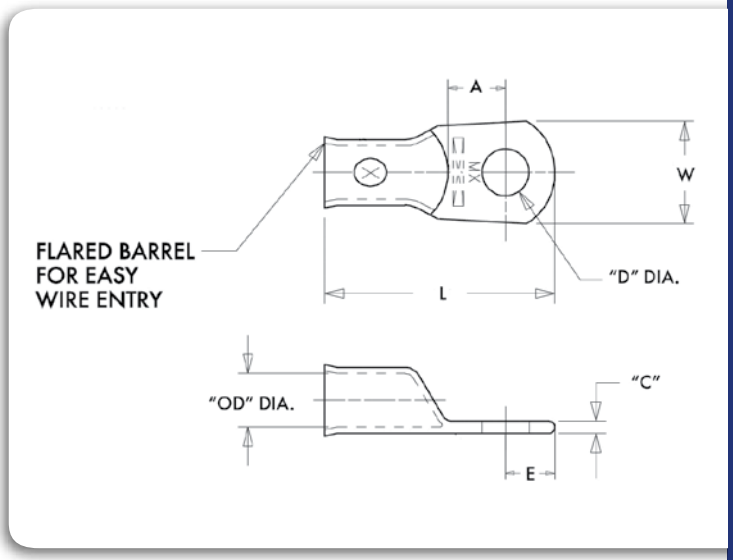
S SERIES





## FEATURES

- Made of pure electrolytic copper single hole.
- Side formed with round ends.
- All lugs marked with ampere rating.




## RATINGS

**TEMPERATURE RATING:**
90 °C. Rated 600V.

| CAT. NO. | WIRE SIZE | AMPERES | LENGTH (L) | WIDTH (W) | OD | HOLE DIAMETER (D) | TANG THICKNESS (C) | TANG LENGTH (A) | END OF CONN. TO CTR. OF 1ST HOLE (E) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **S-1** | 10 | 25 | 0.847 | 0.267 | 0.192 | 0.160 | 0.057 | 0.464 | 0.238 | 100 |
| **S-2** | 8 | 30-35 | 1.313 | 0.594 | 0.270 | 0.278 | 0.070 | 0.720 | 0.342 | 100 |
| **S-3** | 6 | 45-50 | 1.180 | 0.456 | 0.315 | 0.200 | 0.068 | 0.555 | 0.275 | 100 |
| **S-4** | 4 | 60-70 | 1.500 | 0.531 | 0.386 | 0.278 | 0.080 | 0.685 | 0.310 | 100 |
| **S-5** | 2 | 90 | 1.625 | 0.625 | 0.427 | 0.340 | 0.095 | 0.730 | 0.350 | 50 |
| **S-6** | 1/0 | 100-125 | 1.844 | 0.728 | 0.493 | 0.278 | 0.110 | 0.840 | 0.407 | 50 |
| **S-7** | 2/0 | 150 | 2.062 | 0.824 | 0.560 | 0.400 | 0.110 | 0.950 | 0.465 | 50 |
| **S-8** | 3/0 | 175 | 2.156 | 0.916 | 0.624 | 0.400 | 0.115 | 0.950 | 0.520 | 25 |
| **S-9** | 4/0 | 200-225 | 2.344 | 0.999 | 0.682 | 0.400 | 0.135 | 1.012 | 0.510 | 25 |
| **S-10** | 250 | 250 | 2.573 | 1.187 | 0.799 | 0.404 | 0.140 | 1.2 | 0.565 | 25 |

# C-Taps

## CT SERIES



## FEATURES

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.
- Rated for 600V applications.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

| CAT. NO. | WIRE SIZE | | COLOR CODE | STD. CTN. QTY. |
|---|---|---|---|---|
| | MAIN | BRANCH | | |
| CT-101 | 14 | 16 | Red | 100 |
| | 12 | 14 | | |
| CT-102 | 10 | 10 | Blue | 100 |
| | 8 | 12 | | |
| CT-103 | 6 | 10-12 | Gray | 100 |
| | 8 | 8-10 | | |
| CT-104 | 4 or 5 | 8-10-12 | Brown | 100 |
| | 6 | 6-8 | | |
| CT-105 | 3 | 6-8-10-12 | Green | 100 |
| | 4 or 5 | 6-5 | | |
| CT-106 | 3 | 5 | Pink | 100 |
| | 4 | 4 | | |
| CT-107 | 1 | – | Black | 50 |
| | 2 | 4-5 | | |
| | 3 | 3-4 | | |
| CT-108 | 1/0 | 4 | Orange | 50 |
| | 1 | 3-4 | | |
| | 2 | 2-3 | | |
| CT-109 | 2/0 | 3-4 | Purple | 50 |
| | 1/0 | 2-3 | | |
| | - | 1-2 | | |
| CT-110 | 3/0 | 2-3-4 | Yellow | 25 |
| | 2/0 | 1-2 | | |
| | 1/0 | 1/0-1 | | |

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 145

Scan QR to view Tool & Die Charts





nsi INDUSTRIES

# COMPRESSION CONNECTORS
## C-Taps
### CTH SERIES





## FEATURES

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.
- Rated for 600V applications.

c UL us



## COPPER "C" TAPS

- Range-taking compression connectors made from high conductivity copper alloy.
- Ideal for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors.
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation. Installation time is reduced because of its "C" shape.

c UL us
LISTED
155027

UL486A/B Listed.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C. Rated 600V.

| CAT. NO. | WIRE SIZE MAIN | WIRE SIZE BRANCH | COLOR CODE | STD. CTN. QTY. |
|---|---|---|---|---|
| CTH-111 | 1 | 1 | Blue | 25 |
| | 1/0 | 1/0-2 | | |
| | 2/0 | 2/0-4 | | |
| | 3/0 | 1/0-6 | | |
| | 4/0 | 1-8 | | |
| CTH-112 | 2/0 | 2/0-1 | Brown | 25 |
| | 3/0 | 3/0-3 | | |
| | 4/0 | 4/0-4 | | |
| | 250 | 1/0-8 | | |
| CTH-113 | 2/0 | 2/0-1 | Pink | 12 |
| | 3/0 | 3/0-2 | | |
| | 4/0 | 4/0-4 | | |
| | 250 | 3/0-6 | | |
| | 300 | 2/0-8 | | |
| CTH-114 | 4/0 | 4/0-2/0 | Black | 6 |
| | 250 | 250-1 | | |
| | 300 | 4/0-4 | | |
| | 350 | 3/0-6 | | |
| CTH-115 | 250 | 250 | Yellow | 6 |
| | 300 | 300-3/0 | | |
| | 350 | 350-1/0 | | |
| | 400 | 300-2 | | |
| | 450 | 250-4 | | |
| | 500 | 250-6 | | |
| CTH-116 | 350 | 350-4/0 | White | 3 |
| | 400 | 400-2/0 | | |
| | 450 | 450-1 | | |
| | 500 | 500-2 | | |
| CTH-117 | 750-500 | 4/0-6 | - | 3 |
| | 750 | 750-4/0 | | |

| CAT. NO. | CONDUCTOR RANGE RUN | CONDUCTOR RANGE TAP | STRIP LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|
| CTH-46 | 6 SOL - 4 STR | 6 SOL - 6 STR | 3/4 | 25 |
| CTH-44 | 6 SOL - 4 STR | 4 SOL - 4 STR | 3/4 | 25 |
| CTH-24 | 2 SOL - 2 STR | 8 SOL - 4 STR | 7/8 | 10 |
| CTH-22 | 2 SOL - 2 STR | 2 SOL - 2 STR | 7/8 | 25 |
| CTH-2020 | 1/0 STR - 2/0 STR | 1/0 STR - 2/0 STR | 11/16 | 3 |
| CTH-4020 | 3/0 STR - 4/0 STR | 1/0 STR - 2/0 STR | 13/16 | 3 |
| CTH-4040 | 3/0 STR - 4/0 STR | 3/0 STR - 4/0 STR | 13/16 | 3 |

All dimensional data is listed in inches.

Scan QR to view Tool & Die Charts

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 145

COMPRESSION CONNECTORS

# Copper Press-Ons

CSP, CDP SERIES



## FEATURES

- Made of high conductivity copper – metal barrier separates conductor thereby eliminating strand cutting.
- Generous chamber protects cable.
- For compressing, use one crimp with hydraulic tools.
- Three crimps with mechanical tools.

| 1 | 2 |
|---|---|
| SINGLE TAB CSP | DOUBLE TAP CDP |
|  |  |

## RATINGS

c UL us

| CAT. NO. | SIDE A | WIRE DIA. RANGE (IN) | SIDE B | WIRE DIA. RANGE (IN) | DIE SETS FOR HYDRAULIC TOOLS | | | STD. PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | | | | WH-1, W-2 | Y-35* | PRESS. SET | |
| **SINGLE TAB PRESS-ON** | | | | | | | | |
| **CSP-301** | 6 SOL, 6 STR, 4 SOL | 0.162/0.204 | 8 SOL, 8 STR, 6 SOL, 6 STR, 4 SOL | 0.128/0.204 | B-K-T | U-BG or U 243 | 4 | 1 |
| **DOUBLE TAB PRESS-ON** | | | | | | | | |
| **CDP-399-8** | 6 SOL, 6 STR, 4 SOL | 0.162/0.204 | 8 SOL, 6 STR, 4 SOL | 0.128/0.204 | B or B-K-T | U-BG or U 243 | 4 | 1 |
| **CDP-304-8** | 2 STR, 1 STR, 1/0 STR | 0.292/0.375 | 6 SOL, 4 SOL, 4 STR, 2 SOL, 2 STR, 1 STR, 1/0 STR | 0.162/0.258 | 0 | 0 | 4 | 1 |
| **CDP-303-8** | 2 STR, 1 STR, 1/0 STR | 0.292/0.375 | 6 SOL, 4 SOL, 4 STR, 2 SOL, 2 STR, 1 STR, 1/0 STR | 0.292/0.375 | 0 | 0 | 4 | 1 |
| **CDP-308-8** | 2/0 STR, 4/0 STR | 0.419/0.528 | 2 STR, 1 STR, 1/0 STR, 2/0 STR, 4/0 STR | 0.292/0.375 | D | D3 | 4 | 1 |
| **CDP-307-8** | 2/0 STR, 4/0 STR | 0.419/0.528 | 2 STR, 1 STR, 1/0 STR, 2/0 STR, 4/0 STR | 0.419/0.528 | D | D3 | 4 | 1 |





nsi INDUSTRIES

SPLIT BOLT CONNECTORS

# Copper Split Bolts
# 2 Wire
## N SERIES





## FEATURES

- High strength solderless service connector made of high-copper alloy for copper and copperweld wires.
- Type for two maximum wire sizes.

## RATINGS

| CAT. NO. | COPPER CONDUCTOR | | | MAXIMUM CONDUCTOR COPPERWELD | | WIRE DIA. RANGE | REC. TORQUE (IN. LB.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | RANGE OF EQUAL MAIN & TAP | | MIN. TAP WITH ONE MAX. MAIN | STR | TYPE A | IN. | | |
| | MIN. | MAX. | | | | | | |
| **N-10** | 16 STR | 10 STR | 16 STR | – | – | 0.057 – 0.116 | 80 | 100 |
| **N-8** | 16 STR | 8 STR | 16 STR | – | – | 0.057 – 0.145 | 80 | 100 |
| **N-6** | 10 SOL | 6 SOL | 16 SOL | – | – | 0.102 – 0.162 | 165 | 100 |
| **N-4** | 8 SOL | 4 SOL | 16 SOL | 3 NO.12 | 8A | 0.128 – 0.204 | 165 | 75 |
| **N-3** | 6 SOL | 2 SOL | 16 SOL | 3 NO. 9 | 5A | 0.162 – 0.258 | 275 | 50 |
| **N-2** | 6 SOL | 2 STR | 14 STR | 3 NO. 7 | 3A | 0.162 – 0.292 | 275 | 40 |
| **N-1/0** | 4 SOL | 1/0 STR | 14 SOL | 3 NO. 6 | 2A | 0.204 – 0.375 | 385 | 20 |
| **N-2/0** | 2 SOL | 2/0 STR | 14 STR | 3 NO. 5 | – | 0.258 – 0.418 | 385 | 15 |
| **N-3/0** | 2 SOL | 3/0 STR | 12 SOL | 7 NO. 7 | – | 0.258 – 0.470 | 500 | 10 |
| **N-250** | 1/0 SOL | 250 MCM | 10 SOL | 7 NO. 5 | – | 0.325 – 0.575 | 650 | 6 |
| **N-350** | 4/0 STR | 350 MCM | 8 SOL | 19 NO. 7 | – | 0.528 – 0.682 | 650 | 4 |
| **N-500** | 250 MCM | 500 MCM | 8 SOL | 19 NO. 6 | – | 0.575 – 0.815 | 825 | 3 |
| **N-750** | 350 MCM | 750 MCM | 8 SOL | 19 NO. 5 | – | 0.682 – 0.999 | 1000 | 2 |
| **N-1000** | 500 MCM | 1000 MCM | 8 SOL | – | – | 0.815 – 1.153 | 1100 | 2 |

SPLIT BOLT CONNECTORS

# Copper Split Bolts
# 3 Wire

N SERIES



## FEATURES

- High strength solderless service connector made of high-copper alloy for copper and copperweld wires.
- Type for three maximum wire sizes.

## RATINGS

| CAT. NO. | MAXIMUM WIRE SIZE | MIN. TAP WITH MAX. RUN | STD. CTN. QTY. |
|---|---|---|---|
| **N-8L** | 8 STR | 14 STR | 100 |
| **N-6L** | 6 STR | 12 STR | 100 |
| **N-4L** | 4 STR | 12 STR | 75 |
| **N-3L** | 3 STR | 10 STR | 40 |
| **N-2L** | 2 STR | 10 STR | 30 |

SPLIT BOLT CONNECTORS

# Copper Tin Plated Split Bolts

N-SP SERIES





## FEATURES

- Aluminum to copper.
- Aluminum to aluminum.
- Steel to aluminum.
- Copper to copper.
- Steel to copper.
- Electro-tinned body.
- UL listed for copper and copperweld wires only.
- Includes nut, spacer and pressure pad.

## RATINGS

| CAT. NO. | CONDUCTOR RANGE OF EQUAL MAIN & TAP MIN. | CONDUCTOR RANGE OF EQUAL MAIN & TAP MAX. | MIN. TAP WITH ONE MAX. MAIN | ACSR RANGE OF MAIN OR TAP MIN. | ACSR RANGE OF MAIN OR TAP MAX. | WIRE DIA. RANGE IN. | REC. TORQUE (IN. LB.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **N-6SP** | 14 STR | 8 STR | 14 STR | – | 8 | 0.073 - 0.146 | 165 | 100 |
| **N-4SP** | 10 STR | 6 STR | 10 SOL | – | 6 | 0.116 – 0.184 | 165 | 75 |
| **N-3SP** | 8 SOL | 3 STR | 8 SOL | 6 | 4 | 0.128 – 0.258 | 275 | 50 |
| **N-2SP** | 8 SOL | 2 STR | 8 SOL | 6 | 2 | 0.128 – 0.316 | 275 | 40 |
| **N-1/0SP** | 6 SOL | 1/0 STR | 10 SOL | 6 | 1 | 0.162 – 0.375 | 385 | 20 |
| **N-2/0SP** | 6 STR | 2/0 STR | 10 SOL | 6 | 1/0 | 0.184 – 0.419 | 385 | 15 |
| **N-3/0SP** | 4 STR | 3/0 STR | 6 SOL | 6 | 2/0 | 0.198 – 0.470 | 500 | 10 |
| **N-250SP** | 4 STR | 250 MCM | 4 STR | 4 | 4/0 | 0.232 – 0.575 | 650 | 6 |
| **N-350SP** | 3/0 STR | 350 MCM | 1 SOL | 2/0 | 350 | – | 650 | 4 |
| **N-500SP** | 3/0 STR | 500 MCM | 1/0 STR | 2/0 | 477 18/1 | – | 825 | 3 |
| **N-750SP** | 250 MCM | 750 MCM | 2/0 STR | 4/0 | 666.6 | – | 1000 | 2 |
| **N-1000SP** | 250 MCM | 1000 MCM | 4/0 STR | 300 | 900 | – | 1100 | 2 |

SPLIT BOLT CONNECTORS

# Aluminum Dual Rated Split Bolts

APS SERIES



## FEATURES

- Made from tin-plated aluminum.
- UL-486B listed for aluminum and copper conductor combinations.

## RATINGS

| CAT. NO. | RANGE OF EQUAL MAIN AND TAP (COPPER AND ALUMINUM) | WIRE DIAMETER RANGE (INCHES) | RECOMMENDED TORQUE (IN. LB.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **APS06** | 10 SOL. – 6 STR | 0.101 – 0.184 | 165 | 100 |
| **APS04** | 10 SOL. – 4 STR | 0.101 – 0.232 | 165 | 75 |
| **APS02** | 8 STR. – 2 STR | 0.146 – 0.292 | 275 | 40 |
| **APS11** | 8 SOL. – 1/0 STR | 0.162 – 0.375 | 385 | 20 |
| **APS21** | 2 SOL. – 2/0 STR | 0.257 – 0.418 | 390 | 15 |
| **APS41** | 6 STR. – 4/0 STR | 0.368 – 0.575 | 650 | 6 |
| **APS350*** | 2/0 STR. – 350 MCM | 0.414 – 0.681 | 650 | 3 |
| **APS500** | 3/0 STR. – 500 MCM | 0.464 – 0.814 | 825 | 2 |

* Not CSA Approved



CONNECTORS

# Service Post Connectors
# One-Wire Type

SPM SERIES



## FEATURES

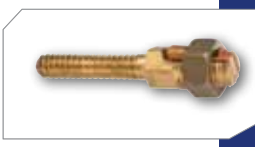
- Made from high copper content hard-drawn rod; used for connecting one or two conductors.
- Lay-in feature makes them excellent for continuous loop grounding and bonding.
- Used to ground to bar or plate.
- Suitable for direct burial in earth or concrete.

## RATINGS

| CAT. NO. | CONDUCTOR RANGE | STUD SIZE | HEX NUT | STD. CTN. QTY. |
|---|---|---|---|---|
| **SPM-1L** | 12 SOL - 8 STR | 0.250 X 20-1 | 0.375 X 24 | 25 |
| **SPM-2L** | 8 SOL - 7 STR | 0.250 x 20-1 | 0.437 x 20 | 25 |
| **SPM-3L** | 10 SOL - 4 STR | 0.312 x 18-1 | 0.500 x 20 | 25 |
| **SPM-4L** | 6 SOL - 3 STR | 0.375 x 16 – 1.125 | 0.562 x 18 | 12 |
| **SPM-5L** | 4 STR - 2 STR | 0.375 x 16 – 1.125 | 0.625 x 18 | 12 |
| **SPM-6L** | 6 SOL - 1/0 STR | 0.500 x 13 – 1.250 | 0.750 x 16 | 12 |
| **SPM-7L** | 1 SOL - 2/0 STR | 0.500 x 13 – 1.250 | 0.875 x 14 | 6 |
| **SPM-9L** | 3/0 SOL - 4/0 STR | 0.625 x 11 – 1.500 | 1.125 X 11 | 3 |

# Service Post Connectors
## Two-Wire Type
### SPM SERIES





## FEATURES

- Made from high copper content hard-drawn rod; used for connecting one or two conductors.
- Lay-in feature makes them excellent for continuous loop grounding and bonding.
- Used to ground to bar or plate.
- Suitable for direct burial in earth or concrete.

| CAT. NO. | CONDUCTOR RANGE | STUD SIZE | HEX NUT | STD. CTN. QTY. |
|---|---|---|---|---|
| **SPM-21L** | 12 SOL - 8 STR | 0.250 x 20 – 1 | 0.375 x 24 | 25 |
| **SPM-22L** | 10 SOL - 7 STR | 0.250 x 20 – 1 | 0.437 x 20 | 25 |
| **SPM-23L** | 8 SOL - 5 STR | 0.312 x 18 – 1 | 0.500 x 20 | 25 |
| **SPM-24L** | 6 SOL - 3 STR | 0.375 x 16 – 1.125 | 0.562 x 18 | 12 |
| **SPM-25L** | 10 SOL - 2 STR | 0.375 x 16 – 1.125 | 0.625 x 18 | 12 |
| **SPM-26L** | 4 SOL - 1/0 STR | 0.500 x 13 – 1.250 | 0.750 x 16 | 12 |
| **SPM-27L** | 2 SOL - 2 STR | 0.500 x 13 – 1.250 | 0.875 x 14 | 6 |
| **SPM-29L** | 1 SOL - 4/0 STR | 0.625 x 11 – 1.500 | 1.125 X 11 | 3 |

TAP CONNECTORS

# Two-Bolt Bronze For Copper To Copper

TC SERIES



## FEATURES

- Made from high strength bronze castings – assurance against stress corrosion and season cracking.
- Designed for heavy-duty service connections.
- The cap swivels to permit quick and easy installation of conductors.
- Retaining rubber washer eliminates loose parts.
- Silicon bronze hardware.
- Flat back permits use as bus tap when used with longer bolts.

| CAT. NO. | MAIN WIRE RANGE | | TAP WIRE RANGE | | STD. CTN. QTY. |
|---|---|---|---|---|---|
| | MAX. | MIN. | MAX. | MIN. | |
| **TC 1/0** | 1/0 STR | 2 SOL | 1/0 STR | 6 SOL | 10 |
| **TC 2/0** | 2/0 STR | 1 SOL | 2/0 STR | 6 SOL | 10 |
| **TC 4/0** | 4/0 STR | 2/0 STR | 4/0 STR | 6 SOL | 6 |
| **TC 350** | 350 MCM | 4/0 STR | 350 MCM | 4 SOL | 5 |
| **TC 500** | 500 MCM | 350 MCM | 500 MCM | 4 SOL | 5 |
| **TC 800** | 800 MCM | 600 MCM | 800 MCM | 2 SOL | 3 |
| **TC 1000** | 1000 MCM | 750 MCM | 1000 MCM | 2 SOL | 2 |

TAP CONNECTORS

# Two-Bolt Bronze For Aluminum, Copper and Steel

TCP SERIES





## FEATURES

- All parts are tin plated.
- Made from high strength bronze castings with high conductivity spacer bar.
- Designed for heavy-duty service connections.
- The cap swivels to permit quick and easy installation of conductors.
- Retaining rubber washer eliminates loose parts.
- Silicon bronze hardware.
- Flat back permits use as bus tap when used with longer bolts.

| CAT. NO. | MAIN WIRE RANGE | | TAP WIRE RANGE | | STD. CTN. QTY. |
|---|---|---|---|---|---|
| | MAX. | MIN. | MAX. | MIN. | |
| **TCP 1/0** | 1/0 STR | 2 SOL | 1/0 STR | 6 SOL | 10 |
| **TCP 2/0** | 2/0 STR | 1 SOL | 2/0 STR | 6 SOL | 10 |
| **TCP 4/0** | 4/0 STR | 2/0 STR | 4/0 STR | 6 SOL | 6 |
| **TCP 350** | 350 MCM | 4/0 STR | 350 MCM | 4 SOL | 5 |
| **TCP 500** | 500 MCM | 350 MCM | 500 MCM | 4 SOL | 5 |
| **TCP 800** | 800 MCM | 600 MCM | 800 MCM | 2 SOL | 3 |
| **TCP 1000** | 1000 MCM | 750 MCM | 1000 MCM | 2 SOL | 2 |

EASY-TAP™

# IPCS Series – Insulation Piercing Connectors

IPCS SERIES



## FEATURES

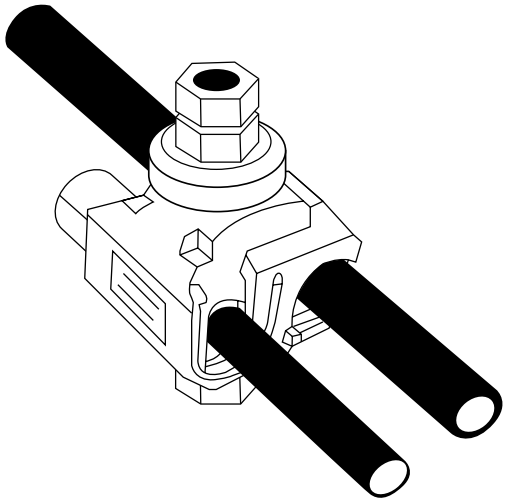
- Safe to use.
- No need to strip wire and totally insulated.
- No tape or cover needed.
- No contact at any point with a live part.
- Can be installed on energized conductors.
- Versatile and reliable.
- No spacer required between connections.
- Exclusive "turbo spacer" keeps tap side open while main conductor is being tightened.
- No need for a third hand to install.
- Watertight and corrosion-free.
- Connection sealed by a rubber grommet.
- No migration of water.
- No contamination between main and tap.
- Connectors handle a large wire range of #14 AWG to 750MCM.
- Double shear-head bolts ensure perfect connection every time Hot spots eliminated.
- Can be used as a splice or a tap.
- Easy to install and no special tools required.
- For copper-to-copper, copper-to-aluminum and aluminum-to-aluminum applications.
- Suitable for solid and/or stranded wires.
- 4 sizes are approved for use with bare wire (from 4/0 to #10) - these connectors come with a blue insert which re-creates the insulation and avoids any damage to the conductor.

## RATINGS

UL486B listed.
Meets ANSI C119.4 requirements.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V.





| CAT. NO. | CONDUCTOR RANGE | | CURRENT RATING | | DIMENSIONS (IN) | | | NO. OF BOLTS | STD. PACK QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| | MAIN AWG | TAP AWG | CU AMP | AL AMP | HEIGHT | WIDTH | LENGTH | | | |
| **IPCS2001*** | 2/0 – 4 | 10 – 14 | 55 | 40 | 3.000 | 1.800 | 2.200 | 1 | 1 | 6 |
| **IPCS7501*** | 750 – 3/0 | 10 – 14 | 55 | 40 | 3.700 | 2.400 | 2.600 | 1 | 1 | 6 |
| **IPCS1002** | 1/0 – 8 | 2 – 10 | 190 | 150 | 3.100 | 1.800 | 2.200 | 1 | 1 | 6 |
| **IPCS1010** | 1/0 – 8 | 1/0 – 8 | 190 | 150 | 3.100 | 1.800 | 2.200 | 1 | 1 | 6 |
| **IPCS4002*** | 4/0 – 3 | 2 – 10 | 190 | 150 | 3.100 | 1.800 | 2.200 | 1 | 1 | 6 |
| **IPCS4020** | 4/0 – 2 | 2/0 – 6 | 300 | 235 | 3.300 | 2.200 | 2.600 | 1 | 1 | 4 |
| **IPCS4040** | 4/0 – 2 | 4/0 – 4 | 405 | 315 | 3.300 | 2.400 | 3.500 | 1 | 1 | 4 |
| **IPCS2540**** | 250 – 1 | 4/0 – 4 | 405 | 315 | 3.500 | 2.200 | 2.600 | 1 | 1 | 4 |
| **IPCS3535**** | 350 – 1/0 | 350 – 1/0 | 570 | 445 | 4.500 | 3.000 | 3.900 | 2 | 1 | 2 |
| **IPCS5040**** | 500 – 2/0 | 4/0 – 4 | 405 | 315 | 4.500 | 3.000 | 3.900 | 2 | 1 | 2 |
| **IPCS5035**** | 500 – 4/0 | 350 – 1/0 | 570 | 445 | 4.500 | 3.000 | 3.900 | 2 | 1 | 2 |
| **IPCS7550**** | 750 – 250 | 500 – 250 | 700 | 545 | 4.700 | 3.300 | 4.300 | 2 | 1 | 2 |

*Cannot be used with bare wire or as a splice
**Cannot be used with bare wire
All sizes can be installed on energized main conductor, however, the tap must not be under load.
Not recommended for use with extra-flexible cables.
Not approved for submersible applications.

CONNECTOR BLOKS™

# Single Primary Multiple Secondary Connector Blocks

AS, AM, AL SERIES



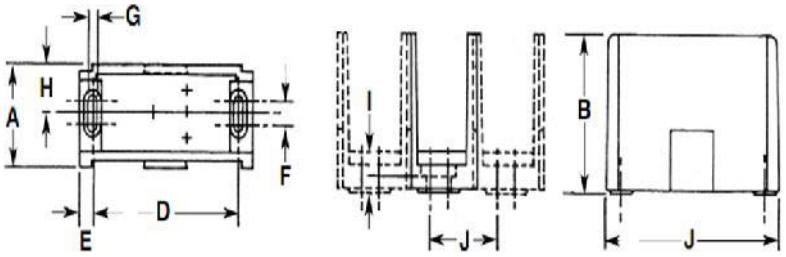
## SINGLE PRIMARY, MULTIPLE SECONDARY

- Each block can stand alone or combine with other blocks to form a multi-block set.
- Add as many holes as you need, in any configuration you want!
- There are no end pieces or connector pieces to fool around with.
- The connector body is made from high strength, high conductivity aluminum alloy and is mounted in a high strength glass-filled polyester base.
- Default SCCR Rating 10,000 Amps.

## CONNECTOR BLOK COVERS

- See-through clear acrylic covers permit visual inspection.
- Snaps easily into place.
- Just three sizes fit all styles and configurations of Connector Bloks*.







| CONFIGURATION | | CAT. NO. | AMPS PER POLE | LENGTH | HEIGHT | WIDTH | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| LINE SIDE | LOAD SIDE | | | | | | | |
| 2/0-14 AWG | 4-14 AWG | **AS-K1-H4** | 175 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 2/0-14 AWG | 4-14 AWG | **AS-K1-H6** | 175 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 350MCM-6 AWG | 4-14 AWG | **AM-P1-H6** | 310 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 350MCM-6 AWG | 4-14 AWG | **AM-P1-H12** | 310 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 350MCM-6 AWG | 2/0-14 AWG | **AL-P1-K6** | 310 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 4-14 AWG | **AM-R1-H12** | 380 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 500MCM-4 AWG | 2/0-14 AWG | **AL-R1-K6** | 380 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 4/0-6 AWG | **AL-R1-M4** | 380 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 1000-250 MCM | 2/0-14 AWG | **AL-V1-K6** | 545 | 5.500 | 3.250 | 2.900 | 1 | 1 |

| CAT. NO. | FOR USE WITH CONNECTOR BLOCKS SERIES WITH PREFIX | STD. CTN. QTY. |
|---|---|---|
| **CS** | AS* | 12 |
| **CM** | AM | 9 |
| **CL** | AL | 6 |

*Not suitable for use with Catalog No. AS-K2-H6. AS-K2-K2 and AS-K1-H6.

CONNECTOR BLOKS™

# Multiple Primary Multiple Secondary Connector Blocks

AS, AM, AL SERIES



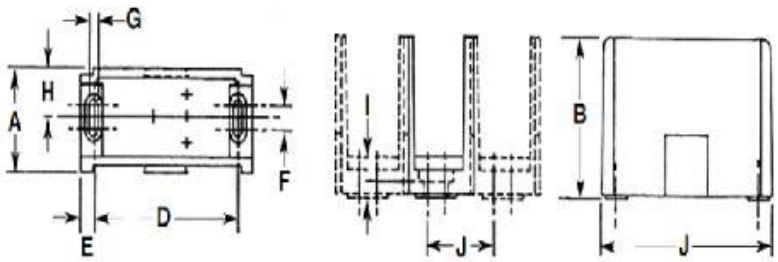
## SINGLE PRIMARY, MULTIPLE SECONDARY

- Compact.
- Versatile.
- 90 °C.
- 600V.
- Durable.
- High-impact bases.
- One-piece connectors.
- No assembly on job site.
- Default SCCR Rating 10,000 Amps.

## CONNECTOR BLOK COVERS

- See-through clear acrylic covers permit visual inspection.
- Snaps easily into place.
- Just three sizes fit all styles and configurations of Connector Bloks*.







| CONFIGURATION | | CAT. NO. | AMPS PER POLE | LENGTH | HEIGHT | WIDTH | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| LINE SIDE | LOAD SIDE | | | | | | | |
| 2/0-14 AWG | 4-14 AWG | **AS-K2-H6** | 350 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 2/0-14 AWG | 4-14 AWG | **AM-K2-H6** | 350 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 2/0-14 AWG | 4-14 AWG | **AM-K2-H12** | 350 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 2/0-14 AWG | 2-14 AWG | **AM-K2-I6** | 350 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 350MCM-6 AWG | 4-14 AWG | **AL-P2-H12** | 620 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 350MCM-6 AWG | 2/0-14 AWG | **AL-P2-K6** | 620 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 4-14 AWG | **AL-R2-H12** | 760 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 2/0-14 AWG | **AL-R2-K6** | 760 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 4/0-6 AWG | **AL-R2-M4** | 760 | 5.500 | 3.250 | 2.900 | 1 | 3 |

| CAT. NO. | FOR USE WITH CONNECTOR BLOCKS SERIES WITH PREFIX | STD. CTN. QTY. |
|---|---|---|
| **CS** | AS* | 12 |
| **CM** | AM | 9 |
| **CL** | AL | 6 |

*Not suitable for use with Catalog No. AS-K2-H6. AS-K2-K2 and AS-K1-H6.

CONNECTOR BLOKS™

# Splice Reducer Primary Secondary Connector Blocks

AS, AM, AL SERIES



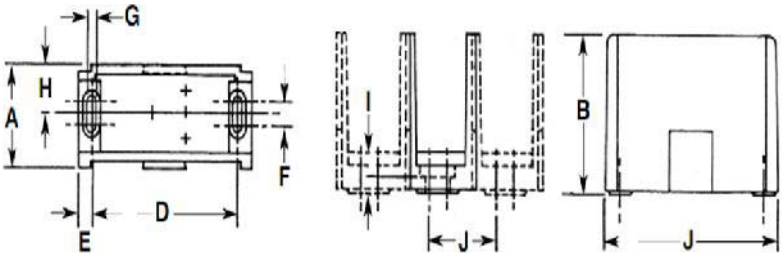
## SINGLE PRIMARY, MULTIPLE SECONDARY

- Compact.
- Versatile.
- 90 °C.
- 600V.
- Durable.
- High-impact bases.
- One-piece connectors.
- No assembly on job site.
- Default SCCR Rating 10,000 Amps.

## CONNECTOR BLOK COVERS

- See-through clear acrylic covers permit visual inspection.
- Snaps easily into place.
- Just three sizes fit all styles and configurations of Connector Bloks*.







| CONFIGURATION | | CAT. NO. | AMPS PER POLE | LENGTH | HEIGHT | WIDTH | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| LINE SIDE | LOAD SIDE | | | | | | | |
| 2-14 AWG | 2-14 AWG | **AS-I1-I1** | 115 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 2/0-14 AWG | 2/0-14 AWG | **AS-K1-K1** | 175 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 250MCM-6 AWG | 250MCM-6 AWG | **AM-N1-N1** | 310 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 350MCM-6 AWG | 350MCM-6 AWG | **AM-P1-P1** | 350 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 500MCM-4 AWG | 500MCM-4 AWG | **AM-R1-R1** | 380 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 2/0-14 AWG | 2/0-14 AWG | **AS-K2-K2** | 350 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 350MCM-6 AWG | 350MCM-6 AWG | **AL-P2-P2** | 620 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 500MCM-4 AWG | **AL-R2-R2** | 760 | 5.500 | 3.250 | 2.900 | 1 | 3 |

| CAT. NO. | FOR USE WITH CONNECTOR BLOCKS SERIES WITH PREFIX | STD. CTN. QTY. |
|---|---|---|
| **CS** | AS* | 12 |
| **CM** | AM | 9 |
| **CL** | AL | 6 |

*Not suitable for use with Catalog No. AS-K2-H6. AS-K2-K2 and AS-K1-H6.

TERMINAL BLOKS™

# Double Row 9/16" Centers, 600V

TB SERIES

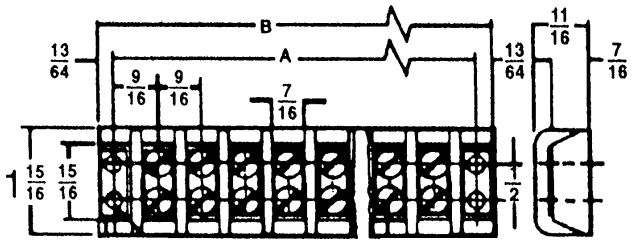


## FEATURES

- Heavy duty construction with corrosion-resistant terminal plates ensures dependable, easy-access multiple terminations.
- Made from strong, glass-filled polyester.
- Screws are #8 stud size.
- Other sizes and styles available.
- Contact NSi for price and availability.

**TEMPERATURE RATING:**
208 °C.

**VOLTAGE:**
30AMP.
600V Max.




| CAT. NO. | NUMBER OF CIRCUITS | DIMENSIONS A | DIMENSIONS B | STD. CTN. QTY. |
|---|---|---|---|---|
| **TB3096-2** | 2 | 1.688 | 2.109 | 10 |
| **TB3096-4** | 4 | 2.812 | 3.250 | 10 |
| **TB3096-6** | 6 | 3.938 | 4.375 | 6 |
| **TB3096-8** | 8 | 5.062 | 5.500 | 4 |
| **TB3096-10** | 10 | 6.203 | 6.625 | 4 |
| **TB3096-12** | 12 | 7.328 | 7.750 | 3 |
| **TB3096-14** | 14 | 8.453 | 8.875 | 3 |

TERMINAL BLOKS™

# Hardware Options

## FQC SERIES





## FEATURES

- Nickel plated.
- 0.250 x 0.30 tab size.
- 22-14AWG wire size.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

## RATINGS

**VOLTAGE:**
30AMP.
600V Max.

| CAT. NO. | FIGURE NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **FQC-00** | 1 | quick disconnect – 0° flat | 10 |
| **FQC-45** | 2 | quick disconnect – 45° bend | 10 |
| **FQC-90** | 3 | quick disconnect – 90° bend | 10 |
| **J-30** | 4 | 30 AMP jumper | 10 |

TERMINAL BLOKS™

# Splicer/Reducers 75 Amps 600V

TBS SERIES



## FEATURES

- Terminal Bloks™ power terminal blocks are made from high conductivity bodies and will accept either copper or aluminum conductors on the line side.
- The bases are manufactured from high strength phenolic compound.
- Contact NSi for price and availability.
- 2-14 AWG.

## RATINGS

**TEMPERATURE RATING:**
150 °C.

| CAT. NO. | NO. OF POLES | WIRE RANGE | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **TBS2-2** | 2 | 2-14 AWG CU or AL | 1.750 | 1.250 | 1.500 | 6 |
| **TBS2-3** | 3 | 2-14 AWG CU or AL | 2.380 | 1.250 | 1.500 | 6 |



TERMINAL BLOKS™

# Rail Mounted Modular Terminal Block Hardware Options

DRT, FTB, DRE, DRJ SERIES



## RAIL MOUNTED MODULAR

- NSi din rail mounted terminal blocks are a cost-effective and intelligent solution to connecting and terminating a wide variety of sizes and styles of wiring in a neat and professional manner.
- Individual blocks can easily be inserted or removed without disturbing adjacent blocks.
- Insertion is made by snapping the block in place by hand.
- Only a screwdriver is needed for removal.
- Mounting rail is fastened by screws to the mounting surface.
- No special brackets or hardware are needed.
- Component pieces may be mixed in an assembly.
- Blocks form their own barriers.
- Blocks include integral mounting feet with screw slot for direct panel mounting, if desired.

## TERMINAL BLOCKS-HARDWARE OPTIONS

- Made from 35mm unplated 6061-T6 Aluminum alloy providing for a strong, lightweight rail for mounting sockets, terminal blocks or other electro-mechanical devices.
- Comes supplied with oval holes 1.1 cm, approximately x 0.4 cm apart.
- Standard 10mm height allows for ease of installation vs. traditional 7.5mm height.



| CAT. NO. | HEIGHT | LENGTH | STD. CTN. QTY |
|---|---|---|---|
| **DR3910** | 10 mm | 39.3″ | 10 |



1

2

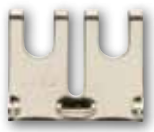
3

4

5

6

7

8


| CATALOG NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **25 AMP TERMINAL BLOCK** | | | |
| **DRTB25F** | 1 | Will accept #22 to two #12 wires per terminal and include captive wire clamps for use with stranded or solid wire or ring terminals. Flat top marking with either pen or stick-on labels. Rated 25 Amps, 600 Volts. | 50 |
| **50 AMP TERMINAL BLOCK** | | | |
| **DRTB50** | 2 | The DRTB50 block uses a box type connector to accept up to a #8 str. Requires only 3/8" per point, allowing 32 points per foot. Provides 3/8" square marking area. Rated 50 Amps, 600 Volts, 94V-0 Rated housing. | 25 |
| **SINGLE POLE DISCONNECT** | | | |
| **DRDTB-1** | 3 | The DRD Series of Disconnect Blocks may be used in a single-pole function or linked together with other disconnects to form multiple pole assemblies. Rated 15 Amps per pole. Accepts #22 to two #12 wires per terminal. | 10 |
| **2 POLE DISCONNECT** | | | |
| **DRDTB-2** | 4 | Two single-pole disconnects with an interlocked handle so that operation on any pole operates all poles. This unique assembly makes it possible to interlock the isolation of different control panel functions without using expensive relays or cam switches. | 6 |
| **DRFTB FUSE BLOCK** | | | |
| **DRFTB** | 5 | The DRFTB Fuse Block accepts 13/32" dia. by 1 1/2" long cartridge fuses through 25 Amps, 600 Volts. The fusible block requires 3/4" rail taking exactly two standard terminal blocks. | 10 |
| **FUSE PULLER** | | | |
| **FTBFP** | 6 | The FTBFB is supplied red as standard. | 25 |
| **END BARRIER** | | | |
| **DREB** | 7 | Each assembly of blocks requires only an end barrier on each end of the assembly. It acts as both the end barrier for the block and retains the blocks on the rail. | 50 |
| **JUMPER** | | | |
| **DRJS2** | 8 | Jumper strap from one point to another on 25 Amp terminal block. | 100 |

TERMINAL BLOKS™

# Insulated Terminal Block

ITB SERIES



## FEATURES

- Nylon 66 housing ensures 'touchproof' safety.
- Recessed screws and tubular contacts provide additional safety and help prevent short circuits.
- Integrated stainless steel spring wire protectors prevent twisting and breaking of stranded wires during installation.
- Tubular contacts connect stripped solid or stranded un-terminated wire directly to each contact.
- Modular design allows for connector to be cut into smaller sections or stacked end-to-end.
- Brass metal alloy, nickel plated terminal insert.
- Zinc plated, yellow chromed screws.

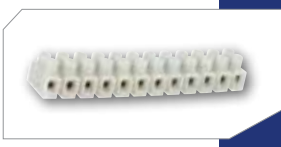
| CAT. NO. | NO. OF CIRCUTS | RATINGS |
|---|---|---|
| **ITB20-12** | 12 | RU |
| | | CSA |
| **ITB30-12** | 12 | RU |
| | | CSA |
| **ITB35-12** | 12 | CRU |
| **ITB50-12** | 12 | CRU |

## RATINGS

Rated UL 94V-2.

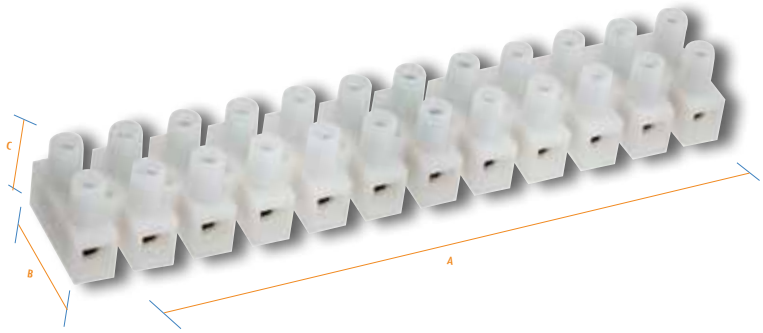
**TEMPERATURE RATING:**
110 °C.

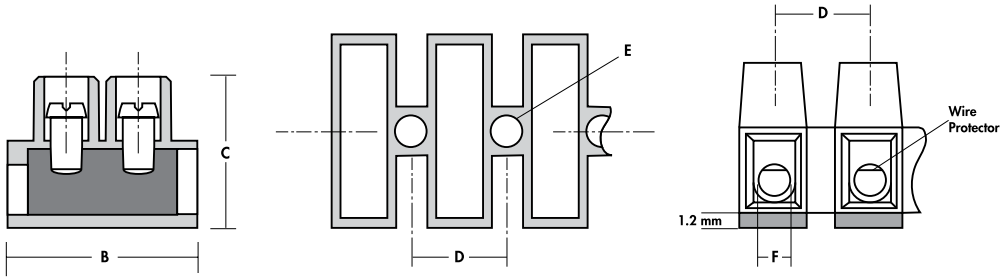
**VOLTAGE:**
300V.



| AMPS | WIRE RANGE | DIMENSIONS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | |
| 20 | 22-12 | 3.787 | 0.669 | 0.570 | 0.315 | 0.114 | 0.110 | 50 |
| 10 | 20-18 | | | | | | | |
| 30 | 22-10 | 4.626 | 0.795 | 0.670 | 0.394 | 0.142 | 0.134 | 50 |
| 20 | 18-14 | | | | | | | |
| 35 | 22-10 | 5.540 | 0.937 | 0.748 | 0.472 | 0.154 | 0.154 | 40 |
| 50 | 20-8 | 6.220 | 1.008 | 0.992 | 0.531 | 0.173 | 0.189 | 25 |

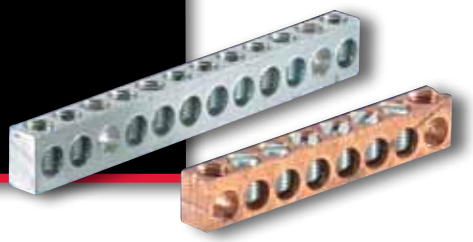
## DIMENSIONS



MULTIPLE CONNECTORS

# Used In Neutral Assemblies And Grounding Applications

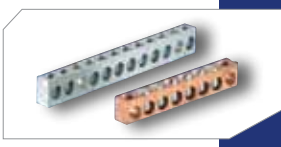


## FEATURES

- Multiple connectors are made from either copper or aluminum bar and can be used in a variety of neutral and grounding applications.
- Aluminum connectors are tin plated for low contact resistance and are suitable for use with copper or aluminum conductors. Aluminum connectors are dual rated for use with aluminum and copper cables.
- Copper connectors are suitable for use with copper wire only. The
- 4-14 AWG multiple connectors can be custom made in any number of wire holes up to 190 holes.
- Contact NSi for price and delivery information.

## RATINGS

| CAT. NO. | MATERIAL |
|---|---|
| 4-14 (32) | Aluminum |
| 4-14 (53) | Aluminum |
| 4-14 (63) | Aluminum |
| 4-14 (74) | Aluminum |
| 4-14 (614) | Aluminum |
| 4-14 (717) | Aluminum |
| 4-14 (726) | Aluminum |
| 4-14 (847) | Aluminum |
| 4-14 (937) | Aluminum |
| 4-14 (11111) | Aluminum |
| 4-14 (12112) | Aluminum |
| 4-14 (14114) | Aluminum |
| 4-14 (17117) | Aluminum |
| 4-14 (22122) | Aluminum |
| 4-14 (190)* | Aluminum |
| 2-14 (12311)** | Aluminum |
| 2/0-14 (32)** | Aluminum |
| 2/0-14 (524)** | Aluminum |
| 2/0-14 (818)** | Aluminum |
| 4C-14 (616) | Copper |
| 4C-14 (717) | Copper |
| 4C-14 (818) | Copper |
| 4C-14 (14114) | Copper |
| 4C-14 (15313) | Copper |
| 4C-14 (15611) | Copper |
| 4C-190* | Copper |
| 2C-14 (515) | Copper |
| 2C-14 (827) | Copper |



| WIRE RANGE | NO. OF CIRCUTS | TOTAL NO. OF HOLES | LENGTH | HEIGHT | WIDTH | HOLE SPACING | MTNG. HOLE POSITION | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 4-14 | 2 | 3 | 0.950 | 0.440 | 0.310 | 0.312 | 2 | 100 |
| 4-14 | 4 | 5 | 1.570 | 0.440 | 0.310 | 0.312 | 3 | 100 |
| 4-14 | 5 | 6 | 1.880 | 0.440 | 0.310 | 0.312 | 3 | 100 |
| 4-14 | 6 | 7 | 2.250 | 0.440 | 0.310 | 0.312 | 4 | 100 |
| 4-14 | 4 | 6 | 1.880 | 0.440 | 0.310 | 0.312 | 1 & 4 | 100 |
| 4-14 | 5 | 7 | 2.250 | 0.440 | 0.310 | 0.312 | 1 & 7 | 100 |
| 4-14 | 5 | 7 | 2.250 | 0.440 | 0.310 | 0.312 | 2 & 6 | 100 |
| 4-14 | 6 | 8 | 2.560 | 0.440 | 0.310 | 0.312 | 4 & 7 | 100 |
| 4-14 | 7 | 9 | 2.870 | 0.440 | 0.310 | 0.312 | 3 & 7 | 100 |
| 4-14 | 9 | 11 | 3.500 | 0.440 | 0.310 | 0.312 | 1 & 11 | 50 |
| 4-14 | 10 | 12 | 3.810 | 0.440 | 0.310 | 0.312 | 1 & 12 | 50 |
| 4-14 | 12 | 14 | 4.430 | 0.440 | 0.310 | 0.312 | 1 & 14 | 50 |
| 4-14 | 15 | 17 | 5.370 | 0.440 | 0.310 | 0.312 | 1 & 17 | 50 |
| 4-14 | 20 | 22 | 6.930 | 0.440 | 0.310 | 0.312 | 1 & 22 | 50 |
| 4-14 | 190 | 190 | 60.000 | 0.440 | 0.310 | 0.312 | – | 10 |
| 2-14 | 10 | 12 | 4.120 | 0.500 | 0.380 | 0.340 | 3 & 11 | 50 |
| 2/0-14 | 2 | 3 | 1.750 | 0.750 | 0.560 | 0.601 | 2 | 25 |
| 2/0-14 | 3 | 5 | 2.950 | 0.750 | 0.560 | 0.601 | 2 & 4 | 25 |
| 2/0-14 | 6 | 8 | 4.750 | 0.750 | 0.560 | 0.601 | 1 & 8 | 25 |
| 4-14 | 4 | 6 | 1.940 | 0.440 | 0.310 | 0.312 | 1 & 6 | 100 |
| 4-14 | 5 | 7 | 2.250 | 0.440 | 0.310 | 0.312 | 1 & 7 | 100 |
| 4-14 | 6 | 8 | 2.56 | 0.440 | 0.310 | 0.312 | 1 & 8 | 100 |
| 4-14 | 12 | 14 | 4.430 | 0.440 | 0.310 | 0.312 | 1 & 14 | 50 |
| 4-14 | 13 | 15 | 4.740 | 0.440 | 0.310 | 0.312 | 3 & 13 | 50 |
| 4-14 | 13 | 15 | 4.740 | 0.440 | 0.310 | 0.312 | 6 & 11 | 50 |
| 4-14 | 190 | 190 | 60.000 | 0.440 | 0.310 | 0.312 | – | 10 |
| 2-14 | 3 | 5 | 2.000 | 0.500 | 0.380 | 0.397 | 1 & 5 | 50 |
| 2-14 | 6 | 8 | 3.250 | 0.500 | 0.380 | 0.397 | 2 & 7 | 50 |

*Supplied with screws unassembled.
**Not UL Rated.

MULTIPLE CONNECTORS

# Copper Neutral Connectors

CN SERIES



## FEATURES

- NSi copper neutral connectors are manufactured from high strength pure electrolytic copper tube to ensure both maximum strength and conductivity.
- Plain copper finish.
- Suitable for use with copper conductors only.

## RATINGS

| CAT. NO. | LINE NO. | LINE RANGE | NO. OF CIRCUTS | CIRCUT RANGE | MTG. HOLES | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **CN70-10-1** | 1 | 4-14 | 8 | 6-14 | 2 x .20 | 4.370 | 0.750 | 0.340 | 100 |
| **CN70-14-1** | 1 | 4-14 | 12 | 6-14 | 2 x .20 | 5.940 | 0.750 | 0.340 | 100 |

MULTIPLE CONNECTORS

# Combination Connectors

CB SERIES





## FEATURES

- Multiple combination connectors are made from aluminum and are tin-plated for low contact resistance.
- Suitable for use with both copper and aluminum conductors.
- Each connector contains a combination of 1/0-14 AWG and 6-14 AWG wire holes.
- Economical and compact innovative design and hole spacing.
- Dual rated for use with aluminum and copper cables.

## RATINGS

| CAT. NO. | NUMBER OF CIRCUTS | | LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|
| | 1/0-14 AWG | 6-14 AWG | | |
| **CB-11** | 3 | 8 | 3.500 | 25 |
| **CB-19** | 5 | 14 | 5.810 | 25 |
| **CB-23** | 6 | 17 | 7.000 | 25 |
| **CB-120** | 30 | 90 | 36.000 | 10 |

NEUTRAL CONNECTORS

# Neutral 225A 600 VAC



## FEATURES

- These stacked neutral assemblies offer the ultimate in compact design and performance.
- Wire holes are stacked to minimize width. One-piece construction provides superior mechanical performance.
- Made from high strength 6061T-6 aluminum alloy.
- Options include a 350 MCM main lug and a high strength, glass-filled polyester mounting base for isolated mounting.
- Available in 12 to 42 wire holes (4-14 AWG).

## RATINGS

| CATALOG NO. | FIGURE NO. |
|---|---|
| 1012 | 1 |
| 1012M | 2 |
| 1012B | 3 |
| 1012MB | 4 |
| 1018 | 1 |
| 1018M | 2 |
| 1018B | 3 |
| 1018MB | 4 |
| 1024 | 1 |
| 1024M | 2 |
| 1024B | 3 |
| 1024MB | 4 |
| 1030 | 1 |
| 1030M | 2 |
| 1030B | 3 |
| 1030MB | 4 |
| 1036 | 1 |
| 1036M | 2 |
| 1036B | 3 |
| 1036MB | 4 |
| 1042 | 1 |
| 1042M | 2 |
| 1042B | 3 |
| 1042MB | 4 |

| 1 | 2 |
|---|---|
|  |  |
| 3 | 4 |
|  |  |



| NO. OF 4-14 AWG CIRCUTS | MAIN LUG SIZE | MOUNTING BASE | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 12 | none | no | 2.068 | 0.875 | 1.500 | 1 |
| 12 | 350-6 | no | 2.193 | 1.375 | 1.500 | 1 |
| 12 | none | yes | 2.068 | 2.250 | 2.250 | 1 |
| 12 | 350-6 | yes | 2.193 | 2.750 | 2.250 | 1 |
| 18 | none | no | 3.132 | 0.875 | 1.500 | 1 |
| 18 | 350-6 | no | 3.257 | 1.375 | 1.500 | 1 |
| 18 | none | yes | 3.132 | 2.250 | 2.250 | 1 |
| 18 | 350-6 | yes | 3.257 | 2.750 | 2.250 | 1 |
| 24 | none | no | 4.196 | 0.875 | 1.500 | 1 |
| 24 | 350-6 | no | 4.321 | 1.375 | 1.500 | 1 |
| 24 | none | yes | 4.196 | 2.250 | 2.250 | 1 |
| 24 | 350-6 | yes | 4.321 | 2.750 | 2.250 | 1 |
| 30 | none | no | 5.260 | 0.875 | 1.500 | 1 |
| 30 | 350-6 | no | 5.385 | 1.375 | 1.500 | 1 |
| 30 | none | yes | 5.260 | 2.250 | 2.250 | 1 |
| 30 | 350-6 | yes | 5.385 | 2.750 | 2.250 | 1 |
| 36 | none | no | 6.324 | 0.875 | 1.500 | 1 |
| 36 | 350-6 | no | 6.449 | 1.375 | 1.500 | 1 |
| 36 | none | yes | 6.324 | 2.250 | 2.250 | 1 |
| 36 | 350-6 | yes | 6.449 | 2.750 | 2.250 | 1 |
| 42 | none | no | 7.388 | 0.875 | 1.500 | 1 |
| 42 | 350-6 | no | 7.513 | 1.375 | 1.500 | 1 |
| 42 | none | yes | 7.388 | 2.250 | 2.250 | 1 |
| 42 | 350-6 | yes | 7.513 | 2.750 | 2.250 | 1 |

MULTIPLE CONNECTORS

# Combination Connectors



## FEATURES

- Multiple combination connectors are made from aluminum and are tin-plated for low contact resistance.
- Suitable for use with both copper and aluminum conductors.
- Each connector contains a combination of 1/0-14 AWG and 6-14 AWG wire holes.
- Economical and compact due to innovative design and hole spacing.
- Dual rated for use with aluminum and copper cables.

| CAT. NO. | FIG. |
|---|---|
| 2024 | 1 |
| 2024M | 2 |
| 2024MB | 4 |
| 2030 | 1 |
| 2030M | 2 |
| 2030B | 3 |
| 2030MB | 4 |
| 2036 | 1 |
| 2036M | 2 |
| 2036MB | 4 |
| 2042M | 2 |
| 2042MB | 4 |

## RATINGS

| 1 | 2 |
|---|---|
|  |  |
| 3 | 4 |
|  |  |





| NO. OF 4-14 AWG CIRCUITS | NO. OF 1/0-14 AWG CIRCUITS | MAIN LUG SIZE | MOUNTING BASE | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 20 | 4 | None | No | 4.332 | 1.025 | 1.687 | 1 |
| 20 | 4 | 350-6 | No | 4.457 | 1.525 | 1.687 | 1 |
| 20 | 4 | 350-6 | Yes | 4.457 | 2.900 | 2.437 | 1 |
| 26 | 4 | None | No | 5.244 | 1.025 | 1.687 | 1 |
| 26 | 4 | 350-6 | No | 5.369 | 1.525 | 1.687 | 1 |
| 26 | 4 | None | Yes | 5.244 | 2.400 | 2.437 | 1 |
| 26 | 4 | 350-6 | Yes | 5.369 | 2.900 | 2.437 | 1 |
| 32 | 4 | None | No | 6.156 | 1.025 | 1.687 | 1 |
| 32 | 4 | 350-6 | No | 6.281 | 1.525 | 1.687 | 1 |
| 32 | 4 | 350-6 | Yes | 6.281 | 2.900 | 2.437 | 1 |
| 38 | 4 | 350-6 | No | 7.193 | 1.525 | 1.687 | 1 |
| 38 | 4 | 350-6 | Yes | 7.193 | 2.900 | 2.437 | 1 |

SPLICES AND TAPS

# Non-Metallic Splice & Tap

## NMS, NMT SERIES



| CATALOG NO. |
|---|
| NMS-2 |
| NMS-3 |
| NMT-2 |

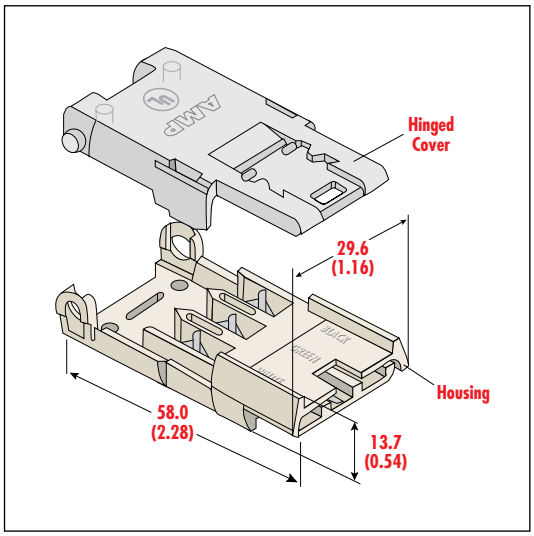
## FEATURES

- The NSi NM Splice & Tap method provides a fast and reliable way to connect 12 and 14 AWG circuits using non-metallic (NM) cable. It eliminates the need for junction boxes, covers, fittings, connectors – and is approved for use in a variety of applications including: residential branch circuits, manufactured housing and pre-fabricated building structures. When adding new circuits in residential applications, NM connectors eliminate both the need to cut into the existing wiring and the extra junction boxes and associated hardware required for the tap connection.
- In factory installations within pre-fabricated structures, the NM connectors eliminate costly time-consuming on-site wiring. As individual modules are joined, splices and taps are simply snapped together easily by assembly crews with no special training or tools.
- Termination is easy. Split the cable, remove the sheathing and cut the splice conductors to length (if necessary). With the tap, individual conductors do not need to be stripped, only exposed. Clear cover installation is done with slip-joint pliers. The installation displacement contacts eliminate the need to strip individual conductors. Simply plug the connectors together and the installation is complete.

## RATINGS

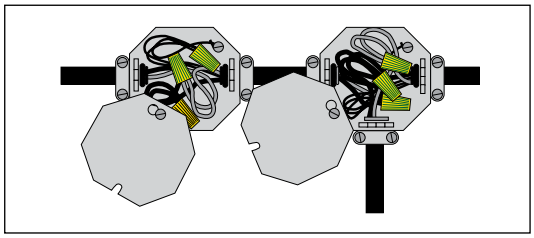
c UL us

### FIG. 1
### NMS -2 (SPLICE)




For splicing 12 or 14 awg solid conductor, 2-conductor cable with ground. Hinged cover makes termination fast and easy. The NMS-2 kit includes everything required to make a two conductor splice.

### CONVENTIONAL TAPPING METHOD



CONNECTORS



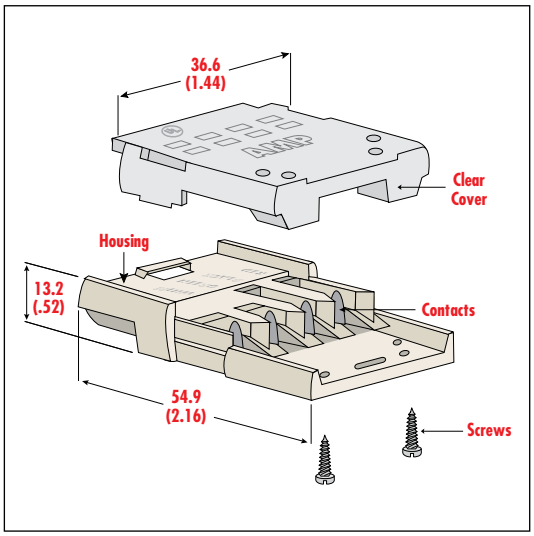
nsi INDUSTRIES





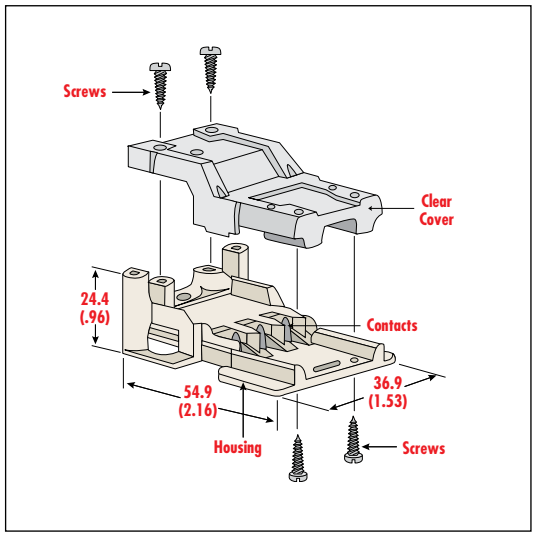
| WIRE RANGE | KIT DESCRIPTION | STD. CTN. QTY. |
|---|---|---|
| 12 – 14 AWG | SPLICE FOR 2-CONDUCTOR CABLE WITH GROUND | 25 |
| 12 – 14 AWG | SPLICE FOR 3-CONDUCTOR CABLE WITH GROUND | 25 |
| 12 – 14 AWG | SPLICE AND TAP KIT FOR 2-CONDUCTOR CABLE | 12 |

## FIG. 2
## NMS - 3 (SPLICE)



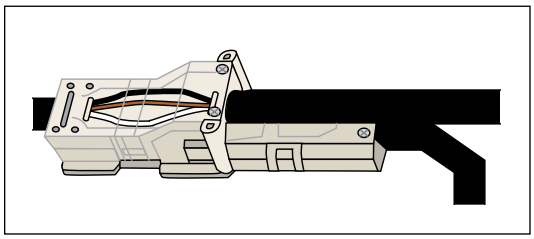

For splicing 12 or 14 awg solid conductor, 3-conductor cable with ground. The NMS-3 kit includes everything required to make a three conductor splice.

## FIG. 3
## NMT - 2 (TAP)




For tapping into 12 or 14 awg solid conductor 2-conductor cable with ground. The NMT-2 kit includes everything required to complete a two conductor tap.

## NSi NM SPLICE & TAP METHOD



CONNECTOR ACCESSORIES

# Transformer Lug Kits Mechanical Set-Screw Types

LK SERIES



## FEATURES

- Terminal lugs are dual rated for use with both copper and aluminum cables.

## RATINGS

UL

| CAT. NO. | TRANSFORMER KVA SIZE |
|---|---|
| LK-1 | 15-37-1/2 1ø |
| | 15-45-3ø |
| LK-2 | 50-75 1ø |
| | 75-112-1/2 3ø |
| LK-3 | 100-167 1ø |
| | 150-300 3ø |
| LK-4 | 500 3ø |
| LK-5 | 15-25 1ø |
| | 15-37 1/2 3ø |
| LK-6 | 37 1/2-50 1ø |
| | 45-75 3ø |
| LK-7 | 225 3ø |
| LK-8 | 225 3ø |
| LK-9 | 300 3ø |
| LK-10 | 400-500 3ø |



| TERMINAL LUGS INCLUDED | | | HARDWARE INCLUDED | | STD. CTN. QTY. |
|---|---|---|---|---|---|
| QTY. | LUG TYPE | WIRE RANGE | QTY. | BOLT SIZE | |
| 8 | 2T | 2-14 | 8 | 1/4-20X3/4 | 1 |
| 4 | 250T | 250 MCM-6 | 8 | 1/4-20X3/4 | 1 |
| 12 | 250T | 250 MCM-6 | 8 | 1/4-20 x 3/4 | 1 |
| 12 | 250T | 250 MCM-6 | 8 | 1/4-20 x 1 3/4 | 1 |
| 3 | 250T | 250 MCM-6 | 3 | 1/4-20 x 3/4 | 1 |
| 22 | 600T | 600 MCM-2 | 16 | 3/8-16 x 2 | 1 |
| 29 | 600T | 600 MCM-2 | 18 | 3/8-16 x 2 | 1 |
| 7 | 0T | 1/0-14 | 7 | 1/4-20 x 1 1/2 | 1 |
| 7 | 0T | 1/0-14 | 7 | 1/4-20 x 1 1/2 | 1 |
| 7 | 250T | 250 MCM-6 | 7 | 5/16-16 x 1 1/2 | 1 |
| 6 | 350T | 350 MCM-6 | 7 | 5/16-16 x 1 1/2 | 1 |
| 3 | 0T | 1/0-14 | 3 | 1/4-20 x 1 | 1 |
| 6 | 2-350T | 350 MCM-6 | 6 | 1/2-13 x 2 | 1 |
| 6 | 350T | 350 MCM-6 | 13 | 3/8-16 x 1 1/2 | 1 |
| 3 | 500T | 500 MCM-4 | 7 | 3/8-16 x 2 | 1 |
| 4 | 2-600T | 600 MCM-2 | 7 | 3/8-16 x 2 | 1 |
| 3 | 2-350T | 350 MCM-6 | 7 | 1/2-13 x 2 | 1 |
| 12 | 500T | 500 MCM-4 | 4 | 1/2-13 x 2 1/2 | 1 |
| 16 | 800T | 800-300 MCM | 11 | 1/2-13 x 2 1/2 | 1 |
| 3 | 2-600T | 600 MCM-2 | 11 | 1/2-13 x 2 1/2 | 1 |

# Tool and Die Charts

## *For Connector Series: L, LN, LNB, GL, GLN, GLNB, SLN, C, SC, SCB*

## COPPER CONNECTORS

### COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART

#### CONNECTOR SERIES: L, LN, LNB, GL, GLN, GLNB, SLN, C, SC, SCB

| COPPER CLASS B/C CONDUCTOR SIZE | COPPER CLASS GHIKM FLEX CONDUCTOR SIZE W/ LB, LNB, GLB, GLNB AND SCB SERIES ONLY | COPPER CLASS DLO CONDUCTOR SIZE W/ LB, LNB, GLB, GLNB AND SCB SERIES ONLY | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE | NSI/GREENLEE DIE | ILSCO DIE | BURNDY DIE |
|---|---|---|---|---|---|---|---|---|
| 8 AWG | - | - | 1 | RED | - | KC12-8 | ILD-1, ILD-21 | U8CRT |
| 6 AWG | - | - | 1 | BLUE | CD2 | KC12-6 | ILD-2, ILD-24 | U5CRT |
| 4 AWG | - | - | 1 | GREY | CD3 | KC12-4 | ILD-3, ILD-29 | U4CRT |
| 3 AWG | #4 FLEX | - | 1 | WHITE | - | KC12-3 | ILD-29 | U3CRT |
| 2 AWG | - | - | 1 | BROWN | CD4 | KC12-2 | ILD-4, ILD-33 | U2CRT |
| 1 AWG | #2 FLEX | - | 1 | GREEN | CD5 | KC12-1 | ILD-4, ILD-37 | U1CRT-1 |
| 1/0 AWG | #1 FLEX | - | 2 | PINK | CD6 | KC12-1/0 | ILD-5, ILD-42 | U25RT |
| 2/0 AWG | 1/0 FLEX | - | 2 | BLACK | CD7 | KC12-2/0 | ILD-6, ILD-45 | U26RT |
| 3/0 AWG | 2/0 FLEX | - | 2 | ORANGE | CD10 | KC12-3/0 | ILD-9, ILD-50 | U27RT |
| 4/0 AWG | 3/0 FLEX | - | 2 | PURPLE | CD12 | KC12-4/0 | ILD-10, ILD-54 | U28RT |
| 250 MCM | 4/0 FLEX | - | 2 | YELLOW | CD14 | KC12-250 | ILD-11, ILD-62 | U29RT |
| 300 MCM | 250 FLEX | - | 2 | WHITE | CD15 | KC12-300 | ILD-12, ILD-66 | U30RT |
| 350 MCM | 250 FLEX | 262.2 | 2 | RED | CD16A | KC12-350 | ILD-13, ILD-71 | U31RT |
| 400 MCM | 300 FLEX | 313.1 | 2 | BLUE | CD17 | KC12-400 | ILD-14, ILD-76 | U32RT |
| 500 MCM | 350 FLEX | 373.7 | 2 | BROWN | CD18 | KC12-500 | ILD-15, ILD-87 | U34RT |
| 600 MCM | 400 FLEX | 444.4 | 2 | GREEN | CD19 | KC12-600 | ILD-16, ILD-94 | U36RT |
| 700 MCM | 500 FLEX | 535.3 | 2 | PINK | CD20 | KC12-700 | ILD-16A, ILD-99 | U38RT |
| 750 MCM | 600 FLEX | 646.6 | 2 | BLACK | CD21 | KC12-750 | ILD-17, ILD-106 | U39RT |
| 1000 MCM | 750 FLEX | 777.7 | 2 | YELLOW | CD23 | - | ILD-18*, ILD-125 | P44RT |
| - | - | - | - | LISTED TOOLS | N1240<br>NSI-12<br>P-750 | HK1240 | ILC-12<br>ILC-12H<br>ILC-15 | Y-35 |

* REQUIRES 15 TON TOOL

## Dieless NSi N12ID

| T&B DIE | HUSKIE DIE | COPPER CLASS B/C EXPANDED WIRE RANGE WHEN INSTALLED WITH NSI N12ID | MIN. # OF CRIMPS REQUIRED |
|---|---|---|---|
| 15520 | - | 8 AWG | 1 |
| 15522 | HT41AT | 6-8 AWG | 1 |
| 15527-CK | HT41AU | 4-6 AWG | 1 |
| - | HT41AV | 3-6 AWG | 1 |
| 15528 | HT41AW | 2-6 AWG | 1 |
| 15513-CK | HT41AX | 1-6 AWG | 1 |
| 15508 | HT41AY | 1/0-6 AWG | 2 |
| 15526 | HT41AZ | 2/0-4 AWG | 2 |
| 15530 | HT41BA | 3/0-2 AWG | 2 |
| 15511 | HT41BC | 4/0-1 AWG | 2 |
| 15510-CK | HT41BE | 250 MCM-1/0 AWG | 2 |
| 15534 | HT41BF | 300 MCM-2/0 AWG | 2 |
| 15514-CK | HT41BJ | 350 MCM-3/0 AWG | 2 |
| 15512 | HT41BK | 400 MCM-4/0 AWG | 2 |
| 15506 | HT41BL | 500 MCM-250 MCM | 2 |
| 15536-CK | HT41BM | 600 MCM-250 MCM | 2 |
| 15505 | HT41BM | 700 MCM-350 MCM | 2 |
| 15515-CK | HT41BP | 750 MCM-500 MCM | 2 |
| 15603* | HT61BU* | - | 2 |
| TBM-15<br>TBM-14M | EP510C | N12ID<br>M-250<br>M-500<br>RDC-1/0 | N12ID<br>M-250<br>M-500<br>RDC-1/0 |

# Tool and Die Charts

## *For Connector Series: CT, CTH*

## COPPER CONNECTORS

### COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART

#### CONNECTOR SERIES: CT, CTH

| COPPER CLASS B/C CONDUCTOR SIZE | MAIN / RUN WIRE RANGE | TAP / BRANCH WIRE RANGE | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE | NSI TOOL |
|---|---|---|---|---|---|---|
| CT-101 | 12 SOL-12 STR | 14 SOL-12 STR | 1 | RED | BARE 8 | M-250 |
| CT-102 | 10 STR<br>8 STR | 10 STR<br>12 STR | 1 | LIGHT BLUE | BARE 4 | RDC-1/0 |
| CT-103 | 6 STR<br>8 STR | 10-12 STR<br>8-10 STR | 1 | GREY | BARE 4 | RDC-1/0 |
| CT-104 | 4 STR<br>6 STR | 8-12 STR<br>6-8 STR | 1 | BROWN | BARE 2 | RDC-1/0 |
| CT-105 | 4 STR<br>4-5 STR | 6-12 STR<br>6-5 STR | 1 | GREEN | INS 2 | RDC-1/0 |
| CT-106 | 4 STR<br>4 STR | 4 STR<br>4 STR | 1 | PINK | INS 2 | RDC-1/0 |
| CT-107 | 1 STR<br>2 STR<br>4 STR | 4 STR<br>4 STR<br>4 STR | 1 | BLACK | BG | OD-59 |
| CT-108 | 1/0 STR<br>1 STR<br>2 STR | 4 STR<br>4 STR<br>2 STR | 1 | ORANGE | KC12-2/0 | N1240 |
| CT-109 | 2/0 STR<br>1/0 STR<br>1/0 STR | 4 STR<br>2 STR<br>1-2 STR | 2 | PURPLE | KC12-4/0 | N1240 |
| CT-110 | 3/0 STR<br>2/0 STR<br>1/0 STR | 4 STR<br>4 STR<br>4 STR | 2 | YELLOW | KC12-250 | N1240 |
| CTH-111 | 1 STR<br>1/0 STR<br>2/0 STR<br>3/0-4/0 STR<br>4/0 STR | 1 STR<br>1/0-2 STR<br>2/0-4 STR<br>1/0-6 STR<br>1.8 STR | 2 | BLUE | KC12-250 | N1240 |
| CTH-112 | 2/0 STR<br>3/0 STR<br>4/0 STR<br>250 STR | 2/0-1 STR<br>3/0-2 STR<br>4/0-4 STR<br>1/0-8 STR | 2 | BROWN | KC12-400 | N1240 |
| CTH-113 | 2/0 STR<br>3/0 STR<br>4/0 STR<br>250 STR<br>300 STR | 2/0-1 STR<br>3/0-2 STR<br>4/0-4 STR<br>3/0-6 STR<br>2/0-8 STR | 2 | PINK | KC12-400 | N1240 |
| CTH-114 | 4/0 STR<br>250 STR<br>300 STR<br>350 STR | 4/0-2/0 STR<br>250-1 STR<br>4/0-4 STR<br>3/0-6 STR | 2 | BLACK | KC12-500 | N1240 |
| CTH-115 | 250 STR<br>300 STR<br>350 STR<br>400 STR<br>450 STR<br>500 STR | 250 STR<br>300-3/0 STR<br>350-1/0 STR<br>300-2 STR<br>250-4 STR<br>250-6 STR | 2 | YELLOW | KC12-750 | N1240 |
| CTH-116 | 350 STR<br>400 STR<br>450 STR<br>500 STR | 350-4/0 STR<br>400-2/0 STR<br>450-1 STR<br>500-2 STR | 2 | WHITE | KC12-750 | N1240 |

## COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART

### CONNECTOR SERIES: CT, CTH

| COPPER CLASS B/C CONDUCTOR SIZE | MAIN / RUN WIRE RANGE | TAP / BRANCH WIRE RANGE | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE | NSI TOOL |
|---|---|---|---|---|---|---|
| CTH-117 | 750-500 STR<br>750 STR | 4/0-6 STR<br>750-4/0 STR | 4 | - | T&B 15603 | T&B TBM-15 |
| CTH-46 | 4 STR | 6 STR | 1 | - | KC12-1/0 | N1240 |
| CTH-44 | 6 STR<br>4 STR | 4 STR<br>4 STR | 1 | - | KC12-1/0 | N1240 |
| CTH-24 | 2 SOL<br>2 STR | 8 SOL<br>4 STR | 1 | - | C | OD581 |
| CTH-22 | 2 SOL<br>2 STR | 2 SOL<br>2 STR | 1 | - | C | OD581 |
| CTH-2020 | 1/0 STR<br>2/0 STR | 1/0 STR<br>2/0 STR | 1 | - | 0 | OD581 |
| CTH-4020 | 3/0 STR<br>4/0 STR | 1/0 STR<br>2/0 STR | 1 | - | D3 | OD581 |
| CTH-4040 | 3/0 STR<br>4/0 STR | 3/0 STR<br>4/0 STR | 1 | - | D3 | OD581 |

## ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART

### CONNECTOR SERIES: AL, ALN, ASCT

| ALUMINUM CLASS B/C CONDUCTOR SIZE | MIN. # OF CRIMPS REQUIRED | ALUMINUM COLOR CODE | NSI DIE | NSI/GREENLEE DIE | ILSCO DIE | BURNDY DIE | T&B DIE | HUSKIE DIE |
|---|---|---|---|---|---|---|---|---|
| 8 AWG | 1 | BLUE | CD2 | KA12-8 | ILD-2 | U8CABT | 15522 | HT41GL |
| 6 AWG | 1 | GREY | CD3 | KA12-6 | ILD-3 | U6CABT | 15527-CK | HT41GE |
| 4 AWG | 1 | GREEN | CD5A | KA12-4 | ILD-4 | U4CABT | 15313-CK | HT41GM |
| 2 AWG | 1 | PINK | CD6A | KA12-2 | ILD-7 | U2CABT | 15508 | HT41GF |
| 1 AWG | 1 | YELLOW | - | KA12-1 | ILD-7 | U1CABT | 15526 | - |
| 1/0 AWG | 2 | TAN | CD9 | KA12-1/0 | ILD-8 | U25ART | 15530 | HT41EX |
| 2/0 AWG | 2 | OLIVE | CD11 | KA12-2/0 | ILD-10 | U26ART | 15511 | HT41EY |
| 3/0 AWG | 2 | RUBY | CD13 | KA12-3/0 | ILD-10 | U27ART | 15532-CK | HT41GW |
| 4/0 AWG | 2 | WHITE | CD15A | KA12-4/0 | ILD-12 | U28ART | 15534 | HT41EZ |
| 250 MCM | 2 | RED | CD16A | KA12-250 | ILD-13 | U29ART | 15514-CK | HT41FW |
| 300 MCM | 2 | BLUE | CD17A | KA12-300 | ILD-14 | U30ART | 15512 | HT41GZ |
| 350 MCM | 2 | BROWN | CD18A | KA12-350 | ILD-14 | U31ART | 15506 | HT41FA |
| 400 MCM | 2 | GREEN | CD19A | KA12-400 | ILD-16 | U32ART | 15536-CK | HT41HH |
| 500 MCM | 2 | PINK | CD20 | KA12-500 | ILD-16A | U34ART | 15505 | HT41FB |
| 600 MCM | 2 | BLACK | CD21A | KA12-600 | ILD-17 | U36ART | - | HT41HG |
| 750 MCM | 2 | RED | CD22 | KA12-750 | ILD-18 | U39ART-2 | 15504 | HT41LJ |
| 1000 MCM | 2 | BROWN | - | - | ILD-P302* | P44ART* | 15602 | - |
| - | - | LISTED TOOLS | N1240<br>NSI-12<br>P-750 | HK1240 | ILC-12<br>ILC-12H<br>ILC-15 | Y-35 | TBM-15<br>TBM-14M | EP510C |

* REQUIRES 15 TON TOOL

## Dieless NSi N12ID

| COPPER CLASS B/C EXPANDED WIRE RANGE WHEN INSTALLED WITH NSI N12ID | MIN. # OF CRIMPS REQUIRED |
|---|---|
| 8 AWG | 1 |
| 6-8 AWG | 1 |
| 4-6 AWG | 1 |
| 2-6 AWG | 1 |
| 1-6 AWG | 1 |
| 1/0-6 AWG | 2 |
| 2/0-4 AWG | 2 |
| 3/0-2 AWG | 2 |
| 4/0-1 AWG | 2 |
| 250 MCM-1/0 AWG | 2 |
| 300 MCM-2/0 AWG | 2 |
| 350 MCM-3/0 AWG | 2 |
| 400 MCM-4/0 AWG | 2 |
| 500 MCM-250 MCM | 2 |
| 600 MCM-250 MCM | 2 |
| 750 MCM-500 MCM | 2 |
| - | 2 |
| N12ID<br>M-250<br>M-500<br>RDC-1/0 | N12ID<br>M-250<br>M-500<br>RDC-1/0 |

## ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART

### CONNECTOR SERIES: PT, PTO, PTS

| ALUMINUM CONDUCTOR ONLY PT SERIES | ALUMINUM CONDUCTOR ONLY PT SERIES | ALUMINUM OR COPPER CONDUCTOR PTS & PTO SERIES | ALUMINUM OR COPPER CLASS B/C CONDUCTOR SIZE PTS & PTO SERIES | PIN SIZE | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE | NSI/GREENLEE DIE |
|---|---|---|---|---|---|---|---|---|
| - | - | **PTS6** | 6 AWG | 4 AWG | 1 | TAN | CD9 | KA12-1/0 |
| **PT6** | 6 AWG | - | - | 8 AWG | 1 | - | BG 52 | - |
| - | - | **PTS4** | 4 AWG | 4 AWG | 1 | TAN | CD9 | KA12-1/0 |
| **PT4** | 4 AWG | - | - | 6 AWG | 1 | - | BG 52 | - |
| - | - | **PTS2** | 2 AWG | 4 AWG | 1 | TAN | CD9 | KA12-1/0 |
| **PT2** | 2 AWG | - | - | 4 AWG | 1 | - | BG 52 | - |
| - | - | **PTS1** | 1 AWG | 3 AWG | 1 | TAN | CD9 | KA12-1/0 |
| **PT1** | 1 AWG | - | - | 3 AWG | 1 | - | BG 52 | - |
| - | - | **PTS1/0** | 1/0 AWG | 2 AWG | 2 | TAN | CD9 | KA12-1/0 |
| **PT1/0** | 1/0 AWG | - | - | 2 AWG | 2 | RED | CD16A | KC12-350 |
| - | - | **PTS2/0 PTO2/0** | 2/0 AWG | 1 AWG | 2 | WHITE | CD15A | KA12-4/0 |
| **PT2/0** | 2/0 AWG | - | - | 1 AWG | 2 | RED | CD16A | KC12-350 |
| - | - | **PTS3/0 PTO3/0** | 3/0 AWG | 1/0 AWG | 2 | WHITE | CD15A | KA12-4/0 |
| **PT3/0** | 3/0 AWG | - | - | 1/0 AWG | 2 | RED | CD16A | KC12-350 |
| - | - | **PTS4/0 PTO4/0** | 4/0 AWG | 2/0 AWG | 2 | WHITE | CD15A | KA12-4/0 |
| **PT4/0** | 4/0 AWG | - | - | 2/0 AWG | 2 | RED | CD16A | KC12-350 |
| - | - | **PTS250 PTO250** | 250 MCM | 3/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| **PT250** | 250 MCM | - | - | 3/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| - | - | **PTS300 PTO300** | 300 MCM | 4/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| **PT300** | 300 MCM | - | - | 4/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| - | - | **PTS350 PTO350** | 350 MCM | 250 MCM | 2 | BROWN | CD18A | KA12-350 |
| **PT350** | 350 MCM | - | - | 4/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| - | - | **PTS400 PTO400** | 400 MCM | 300 MCM | 2 | PINK | CD20 | KA12-500 |
| **PT400** | 400 MCM | - | - | 250 MCM | 2 | PINK | CD20 | KA12-500 |
| - | - | **PTS500 PTO500** | 500 MCM | 350 MCM | 2 | PINK | CD20 | KA12-500 |
| **PT500** | 500 MCM | - | - | 350 MCM | 2 | PINK | CD20 | KA12-500 |
| - | - | **PTS600 PTO600** | 600 MCM | 400 MCM | 2 | YELLOW | CD23 | - |
| **PT600** | 600 MCM | - | - | 350 MCM | 2 | YELLOW | CD23 | - |
| - | - | **PTS750 PTO750** | 750 MCM | 500 MCM | 2 | YELLOW | CD23 | - |
| **PT750** | 750 MCM | - | - | 500 MCM | 2 | YELLOW | CD23 | - |
| - | - | - | - | - | - | LISTED TOOLS | N1240 NSI-12 P-750 | HK1240 |

* REQUIRES 15 TON TOOL

| | ILSCO DIE | BURNDY DIE | T&B DIE | HUSKIE DIE |
|---|---|---|---|---|
| | ILD-8 | U25ART | 15530 | HT41EX |
| | - | - | - | - |
| | ILD-8 | U25ART | 15530 | HT41EX |
| | - | - | - | - |
| | ILD-8 | U25ART | 15530 | HT41EX |
| | - | - | - | - |
| | ILD-8 | U25ART | 15530 | HT41EX |
| | - | - | - | - |
| | ILD-8 | U25ART | 15530 | HT41EX |
| | ILD-13, ILD-71 | U31RT | 15514-CK | HT41BJ |
| | ILD-12 | U28ART | 15534 | HT41EZ |
| | ILD-13, ILD-71 | U31RT | 15514-CK | HT41BJ |
| | ILD-12 | U28ART | 15534 | HT41EZ |
| | ILD-13, ILD-71 | U31RT | 15514-CK | HT41BJ |
| | ILD-12 | U28ART | 15534 | HT41EZ |
| | ILD-13, ILD-71 | U31RT | 15514-CK | HT41BJ |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-16A | U34ART | 15505 | HT41FB |
| | ILD-16A | U34ART | 15505 | HT41FB |
| | ILD-16A | U34ART | 15505 | HT41FB |
| | ILD-16A | U34ART | 15505 | HT41FB |
| | ILD-18*, ILD-125 | P44RT | 15603* | HT61BU* |
| | ILD-18*, ILD-125 | P44RT | 15603* | HT61BU* |
| | ILD-18*, ILD-125 | P44RT | 15603* | HT61BU* |
| | ILD-18*, ILD-125 | P44RT | 15603* | HT61BU* |
| | ILC-12<br>ILC-12H<br>ILC-15 | Y-35 | TBM-15<br>TBM-14M | EP51OC |

**ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART**

**CONNECTOR SERIES: WRD (H-Taps)**

| PART NUMBER | DIE | # OF INDENTS W/ MECHANICAL TOOL | # OF INDENTS W/ HYDRAULIC TOOL |
|---|---|---|---|
| WRD9 | 5/8 BG | 3 | - |
| WRD 139 | O | 4 | 2 |
| WRD 149 | O | 5 | 2 |
| WRD 159 | O | 4 | 2 |
| WRD 179 | O | 5 | 2 |
| WRD 189 | O | 5 | 2 |
| WRD 199 | O | 5 | 2 |
| WRD 219 | D | 5 | 2 |
| WRD 259 | D | 5 | 2 |
| WRD 279 | D | 5 | 2 |
| WRD 289 | D | 5 | 2 |
| WRD 299 | D | 4 | 2 |
| WRD 359 | D | 4 | 2 |
| WRD 369 | D | 5 | 2 |
| WRD 379 | D | 5 | 2 |
| WRD 389 | D | 6 | 2 |
| WRD 399 | D | 7 | 3 |
| WRD 419 | D | 7 | 3 |






# TOOLS & HARDWARE

# Hydraulic Compression Tools



## DIELESS HYDRAULIC CRIMPING TOOL

c UL us

- Dieless indent style crimping head does not require interchangeable crimping dies.
- Flip-open Crimping head rotates 350 degrees to get into tight locations.
- Two-speed pump provides rapid crimping cycle time.
- Lightweight and strong fiberglass handles.
- Comes with a molded carrying case.
- Copper: 4AWG-1000kcmil (MCM).
- Aluminum: 6AWG-1000kcmil (MCM).
- UL and cUL Listed*



| CAT. NO. | DESCRIPTION | LENGTH (IN) | WEIGHT (LBS) | STD. CTN. QTY. |
|---|---|---|---|---|
| **N12ID** | Dieless Hydraulic Crimping Tool | 26 | 15 | 1 |

## 12 TON HYDRAULIC CRIMPING TOOL

c UL us

- N1240 with 1.65 in (42mm) opening.
- Accepts KC12, KA12 and KD12 crimping dies as well as industry "U" style dies.
- New head design results in lower weight and improved durability – tested to 50,000 crimp cycles.
- Two-speed pump to reduce cycle time.
- Ram automatically retracts when crimp cycle is complete.
- Crimping heads rotate 350 degrees.
- Smaller and lighter than most tools. Includes carrying case.
- N1240 - 8 AWG to 750 kcmil copper and aluminum color-coded lugs and splices.
- UL and cUL Listed*



| CAT. NO. | DESCRIPTION | CRIMPING FORCE (IN) | LENGTH (IN) | WEIGHT (LBS) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **N1240** | 12 Ton hydraulic Crimping Tool, 1.65 in. opening. | 24,000 | 21-1/2 | 12.2 | 1 |

## CROSS REFERENCE GUIDE

| NSI | GREENLEE | BURNDY | THOMAS & BETTS | ILSCO | HUSKIE | PANDUIT | BLACKBURN | PENN-UNION |
|---|---|---|---|---|---|---|---|---|
| **N1240** | KC12, KD12, U-Style | U | 15500 Series | ILD | HT41 | CD-920 | B, H | T |

*UL and cUL classified with Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union®, Tyco® color coded connectors.

The products listed above are registered trademarks of Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®Thomas & Betts®, Penn-Union® and Tyco®.

# TOOLS
# Crimping Dies
## KA & KC SERIES





| CAT. NO. | DESCRIPTION | ALUMINUM COLOR CODE | CAT. NO. | DESCRIPTION | COPPER COLOR CODE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **KA12-8*** | 8 AWG, Aluminum | BLUE | **KC12-8*** | 8 AWG, Copper | RED | 1 |
| **KA12-6*** | 6 AWG, Aluminum | GREY | **KC12-6*** | 6 AWG, Copper | BLUE | 1 |
| **KA12-4*** | 4 AWG, Aluminum | GREEN | **KC12-4*** | 4 AWG, Copper | GREY | 1 |
| **KA12-2*** | 2 AWG, Aluminum | PINK | **KC12-2*** | 2 AWG, Copper | BROWN | 1 |
| **KA12-1*** | 1 AWG, Aluminum | GOLD | **KC12-1*** | 1 AWG, Copper | GREEN | 1 |
| **KA12-1/0*** | 1/0 AWG, Aluminum | TAN | **KC12-1/0*** | 1/0 AWG, Copper | PINK | 1 |
| **KA12-2/0*** | 2/0 AWG, Aluminum | OLIVE | **KC12-2/0*** | 2/0 AWG, Copper | BLACK | 1 |
| **KA12-3/0*** | 3/0 AWG, Aluminum | RUBY | **KC12-3/0*** | 3/0 AWG, Copper | ORANGE | 1 |
| **KA12-4/0*** | 4/0 AWG, Aluminum | WHITE | **KC12-4/0*** | 4/0 AWG, Copper | PURPLE | 1 |
| **KA12-250*** | 250 MCM, Aluminum | RED | **KC12-250*** | 250 MCM, Copper | YELLOW | 1 |
| **KA12-300*** | 300 MCM, Aluminum | BLUE | **KC12-300*** | 300 MCM, Copper | WHITE | 1 |
| **KA12-350*** | 350 MCM, Aluminum | BROWN | **KC12-350*** | 350 MCM, Copper | RED | 1 |
| **KA12-400*** | 400 MCM, Aluminum | GREEN | **KC12-400*** | 400 MCM, Copper | BLUE | 1 |
| **KA12-500*** | 500 MCM, Aluminum | PINK | **KC12-500*** | 500 MCM, Copper | BROWN | 1 |
| **KA12-600*** | 600 MCM, Aluminum | BLACK | **KC12-600*** | 600 MCM, Copper | GREEN | 1 |
| **KA12-750*** | 750 MCM, Aluminum | YELLOW | **KC12-750*** | 750 MCM, Copper | BLACK | 1 |

## CRIMPING DIE CARRYING CASE



| CAT. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|
| **01082** | Crimping Die Carrying Case, 15 Pairs | 1 |

*UL and cUL classified with Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union®, Tyco® color coded connectors.

The products listed above are registered trademarks of Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®Thomas & Betts®, Penn-Union® and Tyco®.

TOOLS

# Hydraulic Die & Battery-Operated Die Type Crimping



## HYDRAULIC DIES

- **12-Ton Compression Tool for U-Type Dies.**
- Delivers 12 tons of hydraulic force.
- 1/2" jaw opening for large conductors and taps.
- Automatic two-speed pump action for rapid ram advancement.
- Fast ram release with twist of handle.
- 180° head rotation.
- Accepts all standard U-type dies.

| CAT. NO. | WIRE RANGE AL-CU | | LENGTH (IN) |
|---|---|---|---|
| | MAX. | MIN. | |
| **NSI-12** | 750 MCM | 8 STR | 23 |

## POWER 750



- 14.6 tons, 1.65" jaw opening for U-type dies.
- Powerful 14.4 Volt battery crimper.
- High power Ni-Cad battery.
- 180° head rotation.
- Reinforced molded nylon body.
- Pressure release button.
- Switch-protected against accidental operation.
- Battery condition display.
- Balanced tool and sculptured body for greater control.
- Ergonomically designed center grip handle.
- 10,000 PSI rated operating pressure.
- Includes steel carrying case, shoulder strap, spare battery and battery charger.
- Accepts all standard U-type dies.

| CAT. NO. | WIRE RANGE AL-CU | | LENGTH (IN) |
|---|---|---|---|
| | MAX. | MIN. | |
| **P-750** | 750 MCM | 8 STR | 16.5 |

# U-Type Compression Dies





| CAT. NO. | DIE INDEX NO. | NSI TOOL DIE INDEX | T&B TOOL DIE INDEX | ILSCO TOOL DIE INDEX | HUSKIE TOOL DIE INDEX | BURNDY TOOL DIE INDEX | ALUMINUM COLOR CODE | COPPER LUGS AND SPLICES | WIRE SIZE ALUM. LUGS AND SPLICES | BI-METALLIC PIN TERMINALS |
|---|---|---|---|---|---|---|---|---|---|---|
| **CD2** | 7/374 | AT | 24 | ILD-2 | AT | 7 | BLUE | 6 | 8 | – |
| **CD3** | 8/346 | AU | 29 | ILD-3 | AU | 8 | GREY | 4 | 6 | – |
| **CD4** | 10 | AW | 33 | ILD-4 | AW | 10 | BROWN | 2 | – | – |
| **CD5A** | 375 | GM | 3 | ILD-4 | GM | 375 | GREEN | 1 | 4 | – |
| **CD6A** | 348 | GF | 42H | ILD-5 | GF | 348 | PINK | 1/0 | 2 | – |
| **CD7** | 13 | AZ | 45 | ILD-6 | AZ | 13 | BLACK | 2/0 | – | – |
| **CD9** | 296 | EX | 50 | ILD-8 | EX | 296 | TAN | – | 1/0 | – |
| **CD10** | 14 | BA | 50 | ILD-9 | BA | 14 | ORANGE | 3/0 | – | 6, 4, 2, 1 |
| **CD11** | 297 | EY | 54H | – | EY | 297 | OLIVE | – | 2/0 | – |
| **CD12** | 15 | BC | 54H | ILD-10 | BC | 15 | PURPLE | 4/0 | – | – |
| **CD13** | 467 | GW | 60 | – | GW | 467 | RUBY | – | 3/0 | – |
| **CD14** | 16 | BE | 62 | ILD-11 | BE | 16 | YELLOW | 250 MCM | – | – |
| **CD15** | 17 | BF | 66 | ILD-12 | BF | 17 | WHITE | 300 MCM | – | – |
| **CD15A** | 298 | EZ | 66 | ILD-12 | EZ | 298 | WHITE | 300 MCM | 4/0 | – |
| **CD16** | 18 | BJ | 71H | ILD-13 | BJ | 18 | RED | 350 MCM | – | – |
| **CD16A** | 324 | FW | 71H | ILD-13 | FW | 324 | RED | 350 MCM | 250 MCM | 1/0, 2/0, 3/0, 4/0 |
| **CD17** | 19 | BK | 76 | ILD-14 | BK | 19 | BLUE | 400 MCM | – | – |
| **CD17A** | 470 | BK | 76 | ILD-14 | BK | 470 | BLUE | 400 MCM | 300 MCM | – |
| **CD18** | 20 | BL | 87H | ILD-15 | BL | 20 | BROWN | 500 MCM | – | – |
| **CD18A** | 299 | FA | 87H | – | FA | 299 | BROWN | 500 MCM | 350 MCM | 250, 300, 350, MCM |
| **CD19** | 22 | HH | 94H | ILD-16 | HH | 472 | GREEN | 600 MCM | – | – |
| **CD19A** | 472 | BM | 94H | ILD-16 | BM | 22 | GREEN | 600 MCM | 400 MCM | – |
| **CD20** | 300 | FB | 99H | ILD-16A | FB | 300 | PINK | – | 500 MCM | 400, 500 MCM |
| **CD21** | 24 | BP | 106H | ILD-17 | BP | 24 | BLACK | 750 MCM | – | – |
| **CD21A** | 743 | BP | 106H | ILD-17 | BP | 473 | BLACK | 750 MCM | 600 MCM | – |
| **CD23** | 936 | LJ | 115H | – | LJ | 936 | YELLOW | – | 750 MCM | 600, 750 MCM |

TOOLS

# Mechanical Crimpers & Tools, Ratchet Drive Crimpers



## FEATURES

### 1. MECHANICAL SINGLE-INDENT LUG CRIMPERS

- Manually operated single-indent compressor tool
- Wire Range: CU-250 MCM to 8 AWG and AL-4/0 AWG to 8 AWG.
- Requires no dies.

### 2. MECHANICAL SINGLE-INDENT LUG CRIMPERS

- Extendable handle design provides increased leverage and allows you to crimp connectors up to 500 MCM.
- Requires no dies.

### 3. MECHANICAL TOOL

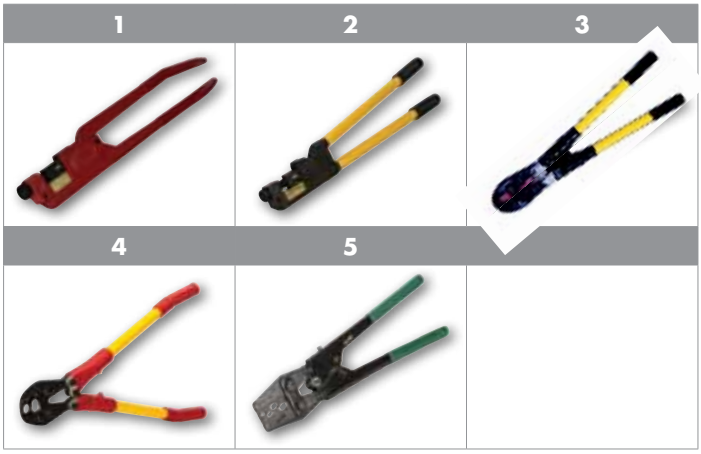
- With 5/8" nose die
- For copper and aluminum.

### 4. MECHANICAL TOOL

- With 5/8" nose die.
- For copper and aluminum.

### 5. RACHET-DRIVE CRIMPERS

- For non-insulated terminals from 6 to 1/0 AWG and insulated terminals from 22 to 8 AWG.
- Rugged, compact and lightweight.
- Requires minimum effort due to ratchet action, ensuring an excellent crimp every time.




| CAT. NO. | FIG. NO. | DESCRIPTION |
|---|---|---|
| **M-250** | 1 | Mechanical Crimper Up To 250 MCM |
| **M-500** | 2 | Mechanical Crimper Up To 500 MCM |
| **OD58** | 3 | Mechanical Crimper For WR Series/H-tap Connectors |
| **OD581** | 3 | Mechanical Crimper For WR Series/H-tap Connectors |
| | | With Fibreglass Handles & 5/8" Nose Die. Output: 4.5 Tons. |
| **OD59** | 4 | Mechanical Crimper For Wr Series/H-Tap Connectors |
| | | Fiberglass Handles And 'O' And 'D' Nose Dies. Output: 4.5 Tons. |
| **RDC 1/0** | 5 | Ratchet Drive Crimper – 6-1/0 AWG Uninsulated, 22-8 AWG Insulated |

| INSERT DIES FOR OD581 AND OD59 | |
|---|---|
| CAT. NO. | DESCRIPTION |
| **OJB** | 'O' die for OD581 |
| **DBL** | 'D' die for OD581 |
| **BY37C** | 840 red for OD581 |
| **U-BG** | U-BG die for OD59 |

TOOLS

# Manual & Ratchet-Drive Cable Cutters

## FOR COPPERS AND ALUMINUM CABLES





## MANUAL CABLE CUTTERS

- Rugged, lightweight manual cable cutters available in three sizes to handle all sizes of cable.
- Replacement blades are available for CCM-500 and CCM-1000.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

| CAT. NO. | FIG. NO. | CABLE CAPACITY | FOR USE WITH | MAX. INSUL. DIA. | LENGTH (IN) |
|---|---|---|---|---|---|
| **CCM-350** | 1 | 350 MCM | Copper & Aluminum | 1.25 | 16 |
| **CCM-500** | 2 | 500 MCM | Copper & Aluminum | 1.25 | 21 |
| **CCM-1000** | 3 | 1000 MCM | Copper & Aluminum | 1.90 | 32 |
| **CCM-500RB** | | | Replacement Blades For CCM-500 | | |
| **CCM-1000RB** | | | Replacement Blades For CCM-1000 | | |

## RATCHET-DRIVE CABLE CUTTERS

- Fine quality tools crafted for cutting ease, minimum cable distortion and long life.
- Rugged, compact and lightweight.
- High quality steel blades offer excellent cutting-edge performance.
- Handles are made from fiberglass.
- Replacement blades and handles are available.



| 4 | 5 |
|---|---|
|  |  |
| **6** | **7** |
|  |  |

| CAT. NO. | FIG. NO. | CABLE CAPACITY | FOR USE WITH | MAX. INSUL. DIA. | LENGTH (IN) |
|---|---|---|---|---|---|
| **CCR-350** | 4 | 350 MCM | Copper & Aluminum | 1.20 | 10 |
| **CCR-750** | 5 | 500 MCM | Copper & Aluminum | 1.40 | 20 |
| **CCR-1000** | 6 | 1000 MCM | Copper & Aluminum | 2.38 | 20 |
| **CCR-750 RB** | 7 | | Replacement Blades For CCR-750 | | |

TOOLS

# Steel Fishtapes & Conduit Benders

FTS , CB & CBH SERIES




## STEEL FISHTAPES

- Extremely flexible and durable flat spring steel.
- Stiffer construction is excellent for long runs.
- Looped end for attaching wires.
- Heavy-duty housing withstands rough conditions.
- High visibility yellow makes fish tape easy to locate.
- Viewing holes to show remaining tape.
- Handle slides through base to reel tape easily.
- 500lbs. maximum tape strength.

| CAT. NO. | DESCRIPTION | LENGTH (FT) | END TYPE |
|---|---|---|---|
| **FTS25** | Flat Spring Steel Fishtape | 25 | Torpedo-Style |
| **FTS50** | 1/8" Steel Fishtape c/w handle | 50 | Formed hook |
| **FTS100** | Steel Fishtape, Reel and Winder | 100 | Formed hook |
| **FTS120** | 1/8" Steel Fishtape c/w handle | 120 | Formed hook |
| **FTS200** | 1/8" Steel Fishtape c/w handle | 200 | Formed hook |

## CONDUIT BENDERS

- All NSi conduit benders have cast in-angle indicators with raised bending points of reference to aid the installer.
- The bodies are aluminum die cast which are lightweight yet strong enough for everyday use.
- Handles are tough steel construction and have a black powder coat finish that is textured for better gripping; flared handle corrects overbends.
- Aluminum die cast bender.
- Handles are made of steel.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | |
|  |  | |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | TYPE | HANDLE SIZE | HANDLE LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **CB100** | 1 | For 1" EMT or 3/4" Rigid, 8 Degree Inside Radius | Aluminum Die Cast | – | – | 12 |
| **CB75** | 2 | For 3/4" EMT or 1/2" Rigid, 6 Degree Inside Radius | Aluminum Die Cast | – | – | 12 |
| **CB50** | 3 | For 1/2" EMT, 5 Degree Inside Radius | Aluminum Die Cast | – | – | 12 |
| **CB50WH** | 4 | For 1/2" EMT, 5 Degree Inside Radius | Aluminum Die Cast With Handles | 3/4 x 38 | – | 12 |
| **CB75WH** | 4 | For 3/4" EMT or 1/2" Rigid, 6 Degree Inside Radius | Aluminum Die Cast With Handles | 3/4 x 38 | – | 12 |
| **CB100WH** | 4 | For 1" EMT or 3/4" Rigid, 8 Degree Inside Radius | Aluminum Die Cast With Handles | 1" x 44 | – | 12 |
| **CBH75** | 5 | 3/4" Diameter, for use with CB50 and CB75 | Handles only | 3/4 | 38 | 12 |
| **CBH100** | 5 | 1" Diameter, for use with CB100 | Handles only | 1 | 44 | 12 |

TOOLS

# Precision Wire Strippers & Insulated Miniterm Tool

## TL, NH SERIES



## FEATURES

- Finest heat-treated spring steel construction with precision-ground cutting edges.
- Double-Insulated cushioned handles.
- Strip solid or stranded copper or aluminum wires.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **ADJUSTABLE 10-24 AWG 5" WIRE STRIPPER** | | | |
| **TL-ADJ5** | 1 | Adjustment wheel sets wire stripper for 8 wire gauge sizes from 10 to 24 AWG. Wire cutter (CU/AL). Wire looper. Heat treated spring steel. Cushioned double insulated handle. | 1 |
| **10-20 AWG 6" WIRE STRIPPER** | | | |
| **TL-WS6** | 2 | Six precision-cut wire stripping holes: 10, 12, 14, 16, 18, 20 AWG. Pliers nose. Wire cutter (CU/AL). Wire looper. Spring and lock. Heat treated spring steel. Cushioned double insulated handle. | 1 |
| **10-20 AWG 8 1/2" 6-FUNCTION ELECTRICIAN'S TOOL** | | | |
| **TL-6-1** | 3 | Six precision-cut wire stripping holes: 10, 12, 14, 16, 18, 20 AWG. Pliers nose. Wire cutter (CU/AL). Wire looper. Insulated and non-insulated crimping stations. Bolt cutter and re-threader. Spring and lock. Heat-treated spring steel. Cushioned double insulated handle. | 1 |
| **10-22 AWG 9 1/2" 5-FUNCTION ELECTRICIAN'S TOOL** | | | |
| **TL-5-1** | 4 | Seven wire stripping holes: 10, 12, 14, 16, 18, 20, 22 AWG. Wire cutter nose (CU/AL). Insulated and non-insulated crimping stations. Bolt cutter and re-threader. Heat-treated hardened steel. Cushioned double insulated handle. | 1 |
| **CABLE JACKET RIPPER 4"** | | | |
| **TL-RCR** | 5 | Slits NM jackets on Romex TM cables to allow stripping of internal wires. Wire gauge holes. | 1 |
| **INSULATED MINITERM TOOL** | | | |
| **NH-1** | 6 | A rachet-action crimping tool for quality crimping of insulated terminals and connectors, including rings, spades, male plugs, female receptacles and disconnects in 22/18, 16/14 and 12/10 AWG wire sizes. | 1 |
| **UNINSULATED MINITERM TOOL** | | | |
| **NH-3** | 7 | Crimp tool for insulated miniterms 22-10 AWG wire sizes. | 1 |
| **NH-4** | 8 | Crimp tool for un-insulated miniterms 22-8 AWG wire sizes. | 1 |

1



2



3



4



5



6



7

**Image Not Available**

8

**Image Not Available**

TOOLS

# Electrician's Hand Tools

TL SERIES



## FEATURES

- The essential hand tools for electrical work.
- Heat-treated forged steel construction with precision ground edges for cutting copper and aluminum.
- Double-insulated cushioned handles.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **DIAGONAL CUTTING PLIERS 6 1/2"** | | | |
| **TL-DC** | 1 | Designed and shaped for wire cutting in tight places. Wire cutter nose (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **CABLE CUTTER 8"** | | | |
| **TL-CCIH** | 2 | Designed for high-leverage cutting of cable to 2/0 (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **LONG REACH CUTTER/CRIMPER 8"** | | | |
| **TL-CRP** | 3 | Long reach design for wire cutting and crimping in tight places. Wire cutter nose (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **LONG NOSE PLIERS/STRIPPER/CRIMPER 6 1/2"** | | | |
| **TL-LNP** | 4 | For long reach twisting and positioning wires in tight places. Wire cutter (CU/AL). Non-insulated crimping stations. Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **LINEMAN'S PLIERS 7 1/2"** | | | |
| **TL-LP** | 5 | Designed for high leverage pulling and twisting wires and cables. Threaded wire-gripping nose. Wire cutter (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **ELECTRICIAN'S 1000V SCREWDRIVERS** | | | |
| **TL-ISS** | 6 | Fully insulated (1000 Volt) screwdriver set. Comfort grip handles and fully insulated shafts for full shock protection (1) #2 Phillips head (1) 3/16" slotted tip. Hang holes. Heat treated drop forged steel. | 1 |

1



2



3



4



5



6



TOOLS

# Electrical Multitesters - Analog & Digital

TES SERIES





## FEATURES

- Precision hand-held analog and digital meter for measuring voltage, amperage, continuity, resistance, battery and decibel strength.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **ANALOG MULTITESTER 5-FUNCTION 12 RANGE** | | | |
| **TES-MT12** | 1 | Measures AC/DC voltage to 300 Volts. DC amperage to 250 mA. Decibels from -20 to 56dB. 1.5 and 9V Batteries Continuity. Fuse protection. Insulated test leads. Requires (2) AAA batteries. | 1 |
| **ANALOG MULTITESTER 7-FUNCTION 19 RANGE** | | | |
| **TES-MT19** | 2 | Tests AC/DC voltage to check 10 Meg. Decibels from -8 to +62dB 1.5 and 9V batteries. Continuity with audible buzzer Fuse protection. Insulated test leads. Requires (2) AA batteries. | 1 |
| **ANALOG BATTERY TESTER** | | | |
| **TES-MTBTL** | 3 | Tests AA; AAA; C; D; C; button cells; Ni-Cad; 3V lithium; 22.5V photo and lantern cells; 6V lantern; 12V, 15V photo cells. Insulated test leads. Exclusive button cell test compartment. | 1 |
| **DIGITAL MULTITESTER 6-FUNCTION 20 RANGE** | | | |
| **TES-DT18** | 4 | DC current to 200 mA. 1.5 and 9V batteries. Continuity (audible buzzer) Fuse protection. Insulated test leads. Requires 9V battery. | 1 |

1



2



3



4



TESTERS

# Circuit/Receptacle Testers

TES SERIES



## FEATURES

- Hand-held probe testers for measuring household voltage presence and level, low voltage presence, continuity and polarity.
- AC/DC home, commercial, automotive and marine voltages.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **80-250 VAC TWIN PROBE VOLTAGE TESTER** | | | |
| **TES-111** | 1 | Neon light indicates presence of AC voltage from 80-250 VAC. Double insulated housing and test leads. Pocket clip. | 1 |
| **120 OR 240 VAC VOLTAGE TESTER** | | | |
| **TES-2** | 2 | Dual neon light indicates presence of AC voltage of either 120 or 240 VAC. Double insulated housing and test leads. Pocket clip. | 1 |
| **5-50 VAC/DC VOLTAGE TESTER** | | | |
| **TES-LVT** | 3 | Neon light indicates presence of low voltage from 5 to 50 VAC or DC. Double insulated housing and fully insulated test leads with alligator clips. Pocket clip. | 1 |
| **CONTINUITY/VOLTAGE SCREWDRIVER TESTER** | | | |
| **TES-CT** | 4 | Neon light indicates presence of AC voltage from 12-300 VAC. Neon light also indicates circuit continuity. Double insulated housing. Handy screwdriver / voltage probe. Pocket clip. (2) LR-44 batteries included | 1 |
| **120-480 VAC/DC HEAVY-DUTY VOLTAGE TESTER** | | | |
| **TES-SOL** | 5 | Solenoid spring activated gauge measures voltage levels from 120 to 480 VAC. Double insulated housing and heavy gauge 48" test leads with housing storage. Lighted polarity indication. | 1 |

1



2




3




4




5



TESTERS

# Circuit/Receptacle Testers

TES SERIES CONT'D





## FEATURES

- Hand-held probe testers for measuring household voltage presence without contacting conductors, analyzing circuit wiring and GFCI integrity and quick baterry testing.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **GFCI ELECTRICAL JUNCTION BOX WIRING ANALYZER** | | | |
| **TES-131** | 1 | Plug in tester shows presence of correct wiring of electrical junction boxes. Also shows presence of up to 6 junction box wiring errors. Includes push-button GFCI integrity test. Neon bulb indication. | 1 |
| **ELECTRICAL JUNCTION BOX WIRING ANALYZER** | | | |
| **TES-122** | 2 | Plug in tester shows presence of correct wiring of electrical junction boxes. Also shows presence of up to 6 junction box wiring errors. Neon bulb indication. | 1 |
| **90-200 VAC NON-CONTACT VOLTAGE TESTER** | | | |
| **TES-NC** | 3 | Detects household voltages from 90 to 200 VAC without touching conductors. (2) AAA batteries are included. AAA battery test feature included. Double insulated. Pocket clip. | 1 |
| **POCKET BATTERY TESTER** | | | |
| **TES-BT** | 4 | Checks strength of AA, AAA, C, D, N, 9V and 1.5V Button Cell Batteries. Flip up contact arm fits battery poles. | 1 |

1



2



3




4



# Torque Wrenches, Screwdriver & Accessories

## TW SERIES



## FEATURES

### TORQUE WRENCHES

- Dual scale, calibrated dual direction.
- Positive lock with spring laoded pull down lock ring.
- Fast, accurate and easy to set.
- Easy-to-read laser marked scales.
- Most feature quick release buttons which provide good socket retention as well as easy socket removal.
- Accuracy: 3% CW, 4% CCW of indicated value, CW from 20% to 100% of full scale.
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.

### TORQUE SCREWDRIVERS

- Positive locking pull down adjustment knob.
- Trilobular comfort grip.
- Universal 1/4" hex bit holder with strong rare earth magnet.
- Cam-over torque limiting clutch and slip resistant finsih.
- Easy-to-read windown scale and light weight.
- Automatic lock in CCW direction for disassembly.
- Accuracy: 6% of indicated value, CW from 20% to 100% of full scale. Individually serialized with matching certificate of calibration traceable to N.I.S.T.
- Meets or exceeds ASME B107.14-2004

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **TW20-150** | 1 | Torque Wrench. Click Type. 20-150 In Lbs. 3/8" Drive Dual Scale. | 1 |
| **TW100-750** | 2 | Torque Wrench. Click Type. 100-750 In Lbs. 3/8" Drive Dual Scale. | 1 |
| **TW5-40** | 3 | Torque Screwdriver. Micro Adjustable. 5-40 In Lbs. 1/4" Drive Single Scale. | 1 |
| **TWHB 3818** | 4 | Hex Bit 3/8" Socket. 1/8" Hex. | 1 |
| **TWHB 38316** | 5 | Hex Bit 3/8" Socket. 3/16" Hex. | 1 |
| **TWHB 3814** | 6 | Hex Bit 3/8" Socket. 1/4" Hex. | 1 |
| **TWHB 38516** | 7 | Hex Bit 3/8" Socket. 5/16" Hex. | 1 |
| **TWHB 3838** | 8 | Hex Bit 3/8" Socket. 3/8" Hex. | 1 |
| **TWHB 1212** | 9 | Hex Bit 1/2" Socket. 1/2" Hex. | 1 |
| **TWDA 3812** | 10 | Drive Adaptor. 3/8" Female To 1/2" Male (Needed For Sa16a, Sa18a And Sa20a) | 1 |
| **TWBS 14** | 11 | 13 Piece 1/4" Drive Insert Bit Set. | 1 |
| **TWSB** | 12 | Holder For 1/4" Hex Screwdriver Bit. 3/8" Drive. | 1 |

1



2



3



4



5



6



7



8



9

**Image Not Available**

10



11



12



# Silicon Bronze Bolts, Hex Nuts, Flat Washers & Split Lockwashers

## HB, HN, SLW, FW SERIES







## FEATURES

- Corrosion resistance and physical strength combine to provide reliability.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

| CAT. NO. | FIG. NO. | BOLT SIZE | HEX/ WRENCH SIZE | SCREW SHAPE | LENGTH (IN) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **HB403** | 1 | 1/4" | 1/4" | | 3/4" | 25 |
| **HB404** | 1 | 1/4" | 1/4" | | 1" | 25 |
| **HB405** | 1 | 1/4" | 1/4" | | 1 1/4" | 25 |
| **HB406** | 1 | 1/4" | 1/4" | | 1 1/2" | 25 |
| **HB505** | 1 | 5/16" | 5/16" | | 1 1/4" | 25 |
| **HB507** | 1 | 5/16" | 5/16" | | 2" | 25 |
| **HB604** | 1 | 3/8" | 3/8" | | 1" | 25 |
| **HB605** | 1 | 3/8" | 3/8" | | 1 1/4" | 25 |
| **HB606** | 1 | 3/8" | 3/8" | | 1 1/2" | 25 |
| **HB607** | 1 | 3/8" | 3/8" | | 2" | 25 |
| **HB804** | 1 | 1/2" | 1/2" | | 1" | 25 |
| **HB805** | 1 | 1/2" | 1/2" | | 1 1/4" | 25 |
| **HB806** | 1 | 1/2" | 1/2" | | 1 1/2" | 25 |
| **HB807** | 1 | 1/2" | 1/2" | | 2" | 25 |
| **HB808** | 1 | 1/2" | 1/2" | | 2 1/4" | 25 |
| **HB809** | 1 | 1/2" | 1/2" | | 2 1/2" | 25 |
| **HB811** | 1 | 1/2" | 1/2" | | 3" | 25 |
| **HB812** | 1 | 1/2" | 1/2" | | 3 1/2" | 25 |
| **HN-4** | 2 | 1/4" | 1/4" | | – | 25 |
| **HN-5** | 2 | 5/16" | 5/16" | | – | 25 |
| **HN-6** | 2 | 3/8" | 3/8" | | – | 25 |
| **HN-8** | 2 | 1/2" | 1/2" | | – | 25 |
| **SLW-4** | 3 | 1/4" | – | | – | 25 |
| **SLW-5** | 3 | 5/16" | – | | – | 25 |
| **SLW-6** | 3 | 3/8" | – | | – | 25 |
| **SLW-8** | 3 | 1/2" | – | | – | 25 |
| **FW-4** | 4 | 1/4" | – | | – | 25 |
| **FW-5** | 4 | 5/16" | – | | – | 25 |
| **FW-6** | 4 | 3/8" | – | | – | 25 |
| **FW-8** | 4 | 1/2" | – | | – | 25 |

HARDWARE

# Stainless Steel Bolts, Hex Nuts, Flat Washers & Split Lockwashers

SS, SSHN, SSBW, SSSLW, SSFW, SSBW SERIES



## FEATURES

- Corrosion resistance and physical strength combine to provide reliability.




| CAT. NO. | FIG. NO. | BOLT SIZE | HEX/ WRENCH SIZE | SCREW SHAPE | LENGTH (IN) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **SS66** | 1 | 3/8" | 3/8" | ⬡ | 2 1/4" | 25 |
| **SS34** | 1 | 1/2" | 1/2" | | 1 3/4" | 25 |
| **SS37** | 1 | 1/2" | 1/2" | ⬡ | 2 1/2" | 25 |
| **SSHN-6** | 2 | 3/8" | 3/8" | | – | 25 |
| **SSHN-8** | 2 | 1/2" | 1/2" | ⬡ | – | 25 |
| **SSBW-6** | 3 | 3/8" | – | – | – | 25 |
| **SSSLW-8** | 3 | 1/2" | – | – | – | 25 |
| **SSFW-6** | 4 | 3/8" | – | – | – | 25 |
| **SSFW-8** | 4 | 1/2" | – | – | – | 25 |
| **SSBW-8** | 5 | 1/2" | – | – | – | 25 |

INHIBITORS

# Oxide Inhibitor & Duct Sealing Compound

OX, DS SERIES





## OXIDE INHIBITOR

- Universal oxide inhibitor for aluminum and/or copper terminations.
- Remains stable over a wide temperature range.
- Supplied in clear, easy-squeeze bottles or tubes.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

| CAT. NO. | FIG. NO. | DESCRIPTION | SIZE (OZ) | STD. CTN. QTY. |
|---|---|---|---|---|
| **OX-8** | 1 | Oxide Inhibitor. Squeeze Bottle. | 8 oz. | 12 |
| **OX-4** | 2 | Oxide Inhibitor. Squeeze Bottle. | 4 oz. | 12 |
| **OX-1** | 3 | Oxide Inhibitor. Squeeze Tube. | 3/4 oz. | 100 |

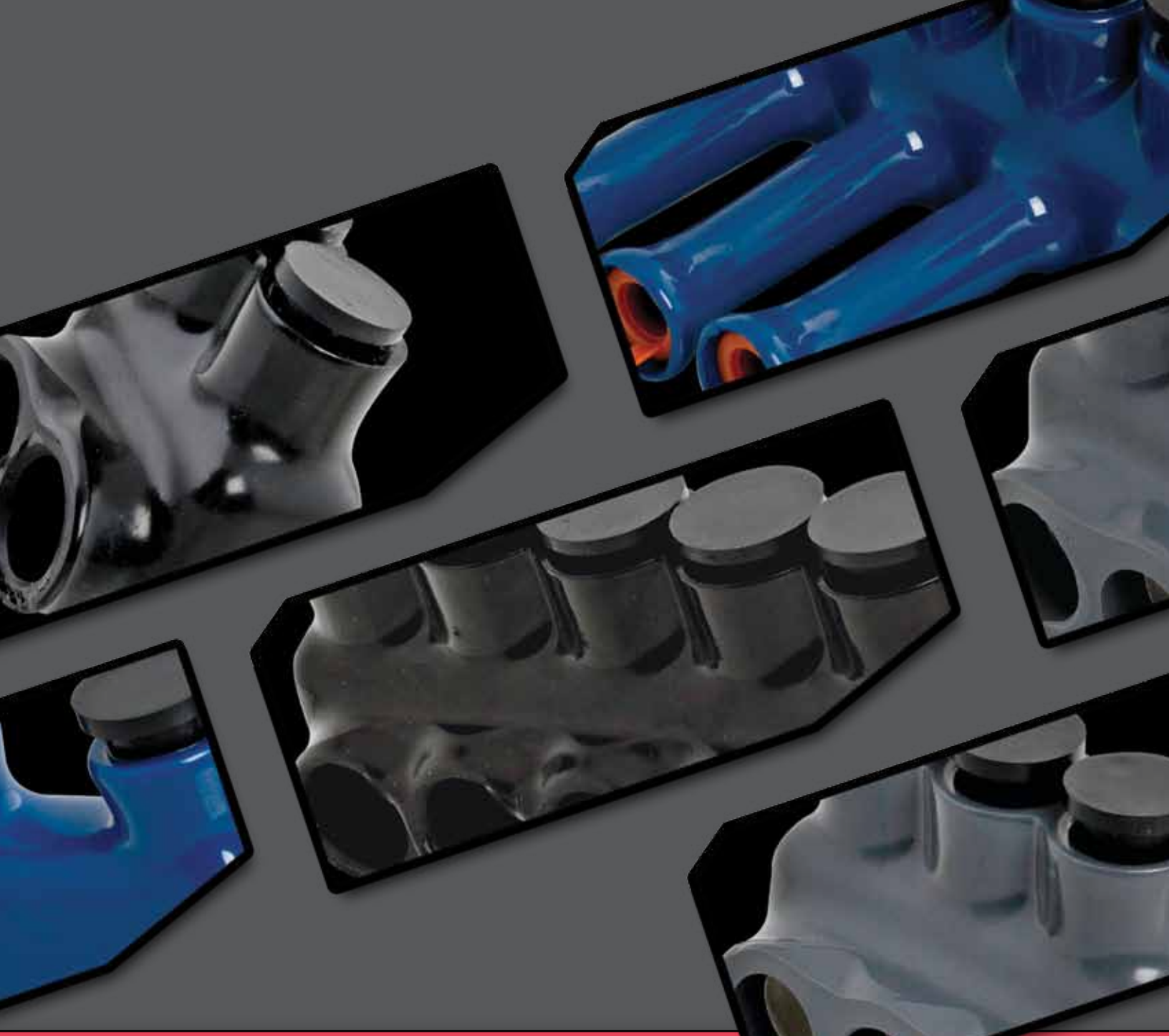
## DUCT SEALING COMPOUND

- Intended for sealing around electrical service entries, junction boxes and other devices where weather-proofing is critical.
- Will stay soft and pliable for several years and has an excellent shelf life.
- Will not damage wire covers, glass, wood, painted surfaces, plastics or other materials it may contact.
- It is chemically inert, inhibiting no chemical activity and is nontoxic.
- Contains no asbestos or mineral fibers and no mineral oil which can shorten the effective life of the product.
- Remains pliable through a wide range of temperatures and will adhere to most clean dry surfaces.

| 1 | 2 |
|---|---|
|  |  |

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **DS184** | 1 | Duct Seal – 1 Lb. Pkg. | 50 |
| **DS185** | 2 | Duct Seal – 5 Lbs. Pkg. | 10 |





# POLARIS™

# POLARIS GREY™ INSULATED CONNECTORS
## For Fine Stranded Wire & Replacement Sleeves
### ITG, ITOG, IPLG, SITG SERIES



## FEATURES

- Safe: Insulated with high dielectric strength plastisol for tough mechanical protection.
- Factory applied insulation provides consistent quality and protection.
- Abrasion and chemical resistant.
- Fast: Eliminates the need for cover and taping – supplied with removable access plugs over the hex screws to protect against contamination.
- Easy: Three sizes cover 14 to 3/0 AWG.
- Reusable: ideal for cabletrays, troughs, wire-ways, raceways, ducts and motor junction boxes.
- For Copper Wire Only

## RATINGS

c UL us

UL Listed 486A Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
CU9. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Can be used with virtually any kind of copper conductor, but is specifically designed for use with fine-stranded, flexible and extra-flexible copper conductors. This includes DLO cable and motor lead wire – excellent for use in motor connect/disconnect applications.

**ASSEMBLY INSTRUCTIONS:**
See page 213 for detailed information for assembly, mounting and installation.

All dimensional data is listed in inches.

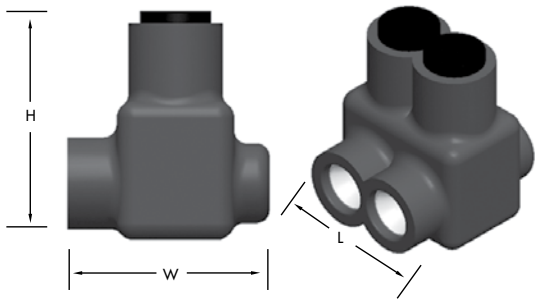
| CAT. NO. | NO. OF PORTS |
|---|---|
| ITG-6 | 2 |
| ITOG-6 | 2 |
| IPLG6-3 | 3 |
| IPLG6-4 | 4 |
| IPLG6-6 | 6 |
| ITG-1 | 2 |
| ITOG-1 | 2 |
| IPLG1-3 | 3 |
| IPLG1-4 | 4 |
| IPLG1-6 | 6 |
| ITG-3/0 | 2 |
| ITOG-3/0 | 2 |
| IPLG3/0-3 | 3 |
| IPLG3/0-4 | 4 |
| IPLG3/0-6 | 6 |

For display bags with a mounting hole for hanging, add the suffix "-B" to the part number when ordering.

| POLARIS GREY™ REPLACEMENT SLEEVES | |
|---|---|
| CAT. NO. | STD. CTN. QTY. |
| SITG-6 | 10 |
| SITG-1 | 10 |
| SITG-3/0 | 10 |



| WIRE RANGE (BY CLASSIFICATION) | | LENGTH (L) | WIDTH (W) | HEIGTH (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| CLASS B, C, D | CLASS K, M, I | | | | | | |
| 6-14 AWG | 6-14 AWG | 1.130 | 1.240 | 1.370 | 45 | 1/8 | 12 |
| 6-14 AWG | 6-14 AWG | 1.130 | 1.270 | 1.370 | 45 | 1/8 | 12 |
| 6-14 AWG | 6-14 AWG | 1.550 | 1.240 | 1.370 | 45 | 1/8 | 12 |
| 6-14 AWG | 6-14 AWG | 1.980 | 1.240 | 1.370 | 45 | 1/8 | 6 |
| 6-14 AWG | 6-14 AWG | 2.820 | 1.240 | 1.370 | 45 | 1/8 | 6 |
| 1-10 AWG | 2-10 AWG | 1.600 | 1.550 | 1.750 | 150 | 3/16 | 6 |
| 1-10 AWG | 2-10 AWG | 1.600 | 1.630 | 1.750 | 150 | 3/16 | 6 |
| 1-10 AWG | 2-10 AWG | 1.550 | 1.240 | 1.370 | 150 | 3/16 | 6 |
| 1-10 AWG | 2-10 AWG | 1.980 | 1.240 | 1.370 | 150 | 3/16 | 6 |
| 1-10 AWG | 2-10 AWG | 2.820 | 1.240 | 1.370 | 150 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 1.850 | 1.600 | 1.810 | 250 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 1.850 | 1.630 | 1.810 | 250 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 2.250 | 1.600 | 1.750 | 250 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 2.900 | 1.600 | 1.750 | 250 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 4.200 | 1.600 | 1.750 | 250 | 3/16 | 4 |




## Protect those fine-stranded wires with Polaris Grey™.

Here's our secret: Polaris Grey™ comes with an integral sleeve which protects the fine strands and helps the conductor maintain its shape during the tightening process. The sleeve eliminates breakage of the strands and reduces stress on the conductor and therefore the potential for hot-spots. Replacement sleeves can be purchased separately.

Specially designed for connecting and terminating fine-stranded, flexible copper conductors. Polaris Grey™ combines the reliability and safety of a compression connection with the ease, affordability and flexibility of a mechanical connection.

Motor replacement is now really easy. Simply strip the cable, insert it into Polaris Grey™, tighten the hex head screw, replace the cap.

POLARIS BLUE™ INSULATED CONNECTORS

# For Direct Burial & Submersible

## ISW SERIES



## FEATURES

- For connecting two wires in-line.
- For direct burial and submersible applications (UL486D).
- Insulated with specially formulated high strength dielectric plastisol and molded for precise fit for a direct burial connection.
- Requires no taping, compounds, heat shrink or cutting-to-size in the field.
- Supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant. UV rated. Will not support combustion.
- Dual rated: Suitable for use with aluminum and/or copper conductors.
- Reusable.

## RATINGS

c UL us

UL Listed 486D Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Suitable for use with aluminum and/or copper conductors. Approved for use with all conductors with insulation suitable for wet and/or damp locations. Not recommended for use with extra flexible cable (see Polaris Grey™ Series page 173).

**INSTALLATION INSTRUCTIONS:**
See page 213 for detailed installation information.



All dimensional data is listed in inches.

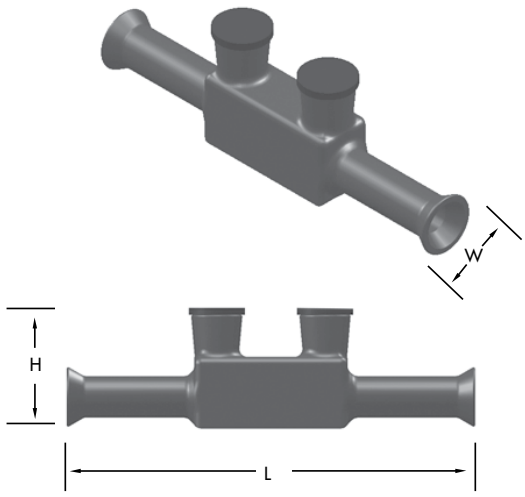
| CAT. NO. | WIRE RANGE URD/USE THHN/XHHW* |
|---|---|
| **ISW-3/0** | 3/0-1/0 AWG |
| **ISW-250** | 250-4/0 AWG |

* Not suitable for direct burial with THHN/XHHW wire. For use in enclosures only.
A properly installed connector will have no more than one conductor per port.





| INSULATION | | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STRIP LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| MIN. DIA. | MAX. DIA. | | | | | | | |
| 0.462 | 0.720 | 7.625 | 1.625 | 2.625 | 250 | 1/4 | 7/8 | 1 |
| 0.618 | 0.895 | 7.563 | 1.188 | 2.125 | 360 | 5/16 | 1-1/8 | 1 |




## Polaris™ Blue custom connectors

Let us help you custom engineer and fabricate a UL Listed direct burial and submersible insulated connector for your next project. Choose any combination and quantity of our standard Polaris Blue and we'll build a connector to meet your exact requirements. Wire entry can even be from either side of the connector, based on your specific project needs. UL486D for direct burial or below ground use and submersible applications.

POLARIS BLUE™ INSULATED CONNECTORS

# Direct Burial & Submersible

## ITW, IPLW SERIES



## FEATURES

- For connecting multiple wires and are UL Listed (UL486D) for direct burial and submersible applications.
- Insulated with specially formulated high strength dielectric plastisol and molded for precise fit for a direct burial connection.
- Requires no taping, compounds, heat shrink or cutting-to-size in the field.
- Supplied with removable access plugs over the hex screws and pre-filled oxide inhibitor.
- Abrasion and chemical resistant. UV resistant.
- Will not support combustion.
- Dual rated: Suitable for use with aluminum and/or copper conductors.

## RATINGS

c UL us

UL Listed 486D Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Suitable for use with aluminum and/or copper conductors. Approved for use with all conductors with insulation suitable for wet and/or damp locations. Not recommended for use with extra flexible cable (see Polaris Grey™ Series page 173).

**INSTALLATION INSTRUCTIONS:**
See page 213 for detailed installation information.

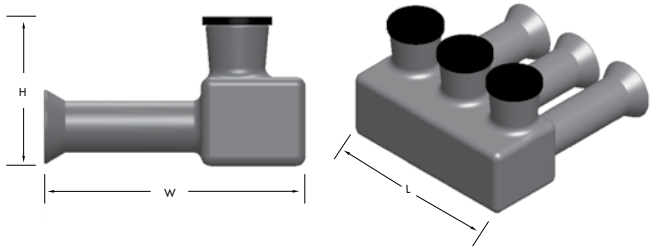


All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS | WIRE RANGE URD/USE THHN/ XHHW* |
|---|---|---|
| ITW-3/0 | 2 | 3/0-1/0 AWG |
| IPLW3/0-3 | 3 | 3/0-1/0 AWG |
| IPLW3/0-4 | 4 | 3/0-1/0 AWG |
| IPLW3/0-5 | 5 | 3/0-1/0 AWG |
| IPLW3/0-6 | 6 | 3/0-1/0 AWG |
| ITW-250 | 2 | 250-4/0 AWG |
| IPLW250-3 | 3 | 250-4/0 AWG |
| IPLW250-4 | 4 | 250-4/0 AWG |
| IPLW250-5 | 5 | 250-4/0 AWG |
| IPLW250-6 | 6 | 250-4/0 AWG |



| INSULATION | | HEX SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | STRIP LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| MIN. DIA. | MAX. DIA. | | | | | | | |
| 0.462 | 0.720 | 1/4 | 2.270 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.462 | 0.720 | 1/4 | 3.470 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.462 | 0.720 | 1/4 | 4.670 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.462 | 0.720 | 1/4 | 5.870 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.462 | 0.720 | 1/4 | 7.070 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.618 | 0.895 | 5/16 | 2.510 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |
| 0.618 | 0.895 | 5/16 | 3.810 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |
| 0.618 | 0.895 | 5/16 | 5.110 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |
| 0.618 | 0.895 | 5/16 | 6.410 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |
| 0.618 | 0.895 | 5/16 | 7.710 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |




## Polaris™ Blue custom connectors

Let us help you custom engineer and fabricate a UL Listed direct burial and submersible insulated connector for your next project. Choose any combination and quantity of our standard Polaris Blue and we'll build a connector to meet your exact requirements. Wire entry can even be from either side of the connector, based on your specific project needs. UL486D for direct burial or below ground use and submersible applications.

# POLARIS™ INSULATED CONNECTORS
# Dual Rated Two-Wire
## IT, ITO, ITH SERIES

## FEATURES

- Insul-Tap connectors, suitable for connecting two wires.
- For sizes 3/0 AWG and smaller, available in two styles: wires being connected from the same side of the connector (Figure 1) or opposite sides of the connector (Figure 2).
- For sizes 250 MCM and larger, provided with open wire entry ports on both sides of the connector (Figure 3), which allows for access from either side. This style is supplied with removable access plugs to close the entry port not being utilized.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire (see Polaris Grey™ Series page 173).

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

All dimensional data is listed in inches.

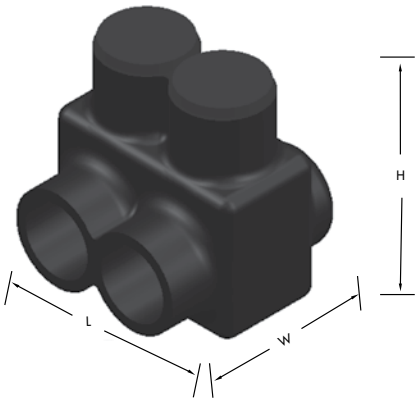
| CAT. NO. | FIG. NO. |
|---|---|
| **IT-4** | 1 |
| **ITO-4** | 2 |
| **IT-4A** | 1 |
| **IT-1/0** | 1 |
| **ITO-1/0** | 2 |
| **IT-3/0** | 1 |
| **ITO-3/0** | 2 |
| **IT-250** | 3 |
| **IT-350** | 3 |
| **IT-500** | 3 |
| **IT-600** | 3 |
| **IT-750**** | 3 |
| **ITH-750** | 4 |

** IT-750 is not UL listed.





| WIRE RANGE | NO. OF PORTS | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 4-14 AWG | 2 | 1.120 | 1.180 | 1.380 | 35 | Slotted | 12 |
| 4-14 AWG | 2 | 1.120 | 1.250 | 1.380 | 35 | Slotted | 12 |
| 4-14 AWG | 2 | 1.120 | 1.180 | 1.380 | 35 | 1/8 | 12 |
| 1/0-14 AWG | 2 | 1.620 | 1.620 | 1.750 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 2 | 1.620 | 1.750 | 1.750 | 180 | 3/16 | 6 |
| 3/0-6 AWG | 2 | 1.840 | 1.750 | 1.870 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 2 | 1.840 | 1.870 | 1.870 | 250 | 1/4 | 6 |
| 250 MCM-6 AWG | 2 | 2.120 | 2.250 | 2.250 | 360 | 5/16 | 6 |
| 350 MCM-6 AWG | 2 | 2.470 | 2.500 | 2.440 | 400 | 5/16 | 4 |
| 500 MCM-4 AWG | 2 | 2.810 | 2.870 | 2.940 | 450 | 5/16 | 4 |
| 600 MCM-6 AWG | 2 | 2.340 | 2.940 | 3.050 | 550 | 5/16 | 4 |
| 750-250 MCM | 2 | 3.480 | 3.500 | 3.500 | 550 | 3/8 | 2 |
| 750-1/0 MCM | 2 | 3.480 | 4.500 | 3.500 | 550 | 5/16 | 2 |



POLARIS™ INSULATED CONNECTORS

# Dual Rated Splicer/Reducers

ISR SERIES

## FEATURES

- Suitable for connecting two wires in-line.
- Insulated with high dielectric strength plastisol and molded for precise fit.
- Supplied with removable access plugs over the hex screw.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. |
|---|---|
| ISR-1/0 | 1 |
| ISR-250 | 1 |
| ISR-350 | 1 |
| ISR-500 | 1 |
| ISR-600 | 1 |
| ISRH-750 | 2 |

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
Cold temperature rated to -45 °C, rated 600V, 90 °C.

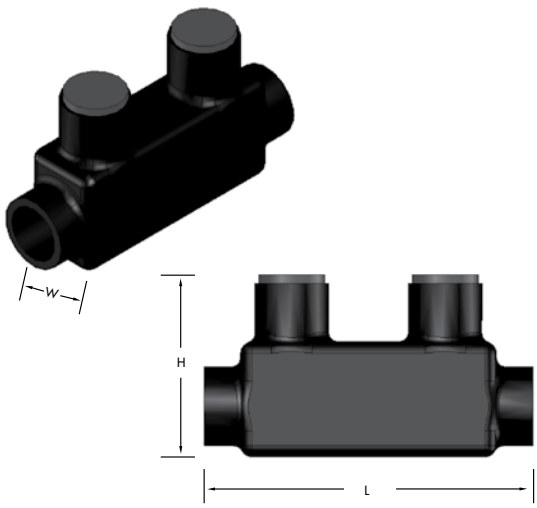
**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for use with extra-flexible cables (see Polaris Grey™ Series page 173).

| 1 | 2 |
|---|---|
|  |  |





| WIRE RANGE | NO. OF PORTS | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 1/0-14 AWG | 2 | 3.250 | 0.900 | 1.480 | 180 | 3/16 | 4 |
| 250 MCM-6 AWG | 2 | 4.000 | 1.190 | 1.900 | 360 | 5/16 | 4 |
| 350 MCM-6 AWG | 2 | 4.470 | 1.320 | 2.200 | 400 | 5/16 | 2 |
| 500 MCM-4 AWG | 2 | 4.620 | 1.620 | 3.000 | 450 | 5/16 | 2 |
| 600 MCM-6 AWG | 2 | 5.830 | 1.570 | 3.050 | 550 | 5/16 | 2 |
| 750 MCM-1/0 AWG | 2 | 7.250 | 1.750 | 3.250 | 550 | 5/16 | 2 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor Connector One Side Wire Entry

## IPL SERIES



## FEATURES

- Wire entry ports on one side only.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

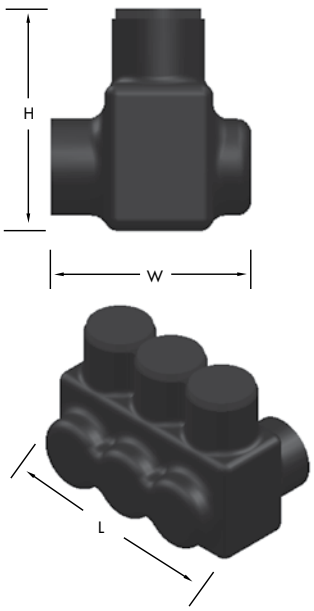
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| IPL4-3 | 3 |
| IPL4-3A | 3 |
| IPL4-4 | 4 |
| IPL4-4A | 4 |
| IPL4-5 | 5 |
| IPL4-6 | 6 |
| IPL4-8 | 8 |
| IPL4-8A | 8 |
| IPL4-10 | 10 |
| IPL4-12 | 12 |
| IPL4-14 | 14 |
| IPL1/0-3 | 3 |
| IPL1/0-4 | 4 |
| IPL1/0-5 | 5 |
| IPL1/0-6 | 6 |
| IPL1/0-8 | 8 |
| IPL1/0-10 | 10 |
| IPL1/0-12 | 12 |
| IPL1/0-14 | 14 |
| IPL3/0-3 | 3 |
| IPL3/0-4 | 4 |
| IPL3/0-5 | 5 |
| IPL3/0-6 | 6 |
| IPL3/0-8 | 8 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 4-14 AWG | 1.550 | 1.188 | 1.375 | 45 | Slotted | 12 |
| 4-14 AWG | 1.550 | 1.188 | 1.375 | 45 | 1/8 | 12 |
| 4-14 AWG | 1.970 | 1.188 | 1.375 | 45 | Slotted | 6 |
| 4-14 AWG | 1.970 | 1.188 | 1.375 | 45 | 1/8 | 6 |
| 4-14 AWG | 2.390 | 1.188 | 1.375 | 45 | Slotted | 6 |
| 4-14 AWG | 2.810 | 1.188 | 1.375 | 45 | Slotted | 6 |
| 4-14 AWG | 3.660 | 1.188 | 1.375 | 45 | Slotted | 4 |
| 4-14 AWG | 3.660 | 1.188 | 1.375 | 45 | 1/8 | 4 |
| 4-14 AWG | 4.500 | 1.188 | 1.375 | 45 | Slotted | 4 |
| 4-14 AWG | 5.100 | 1.188 | 1.375 | 45 | Slotted | 2 |
| 4-14 AWG | 6.180 | 1.188 | 1.375 | 180 | 3/16 | 12 |
| 1/0-14 AWG | 2.240 | 1.500 | 1.688 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 2.890 | 1.500 | 1.688 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 3.540 | 1.500 | 1.688 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 4.190 | 1.500 | 1.688 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 5.490 | 1.500 | 1.688 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 6.820 | 1.500 | 1.688 | 180 | 3/16 | 3 |
| 1/0-14 AWG | 8.120 | 1.500 | 1.688 | 180 | 3/16 | 2 |
| 1/0-14 AWG | 9.420 | 1.500 | 1.688 | 250 | 5/16 | 6 |
| 3/0-6 AWG | 2.630 | 1.600 | 1.800 | 250 | 5/16 | 6 |
| 3/0-6 AWG | 3.410 | 1.600 | 1.800 | 250 | 5/16 | 4 |
| 3/0-6 AWG | 4.190 | 1.600 | 1.800 | 250 | 5/16 | 4 |
| 3/0-6 AWG | 4.970 | 1.600 | 1.800 | 250 | 5/16 | 3 |
| 3/0-6 AWG | 6.530 | 1.600 | 1.800 | 250 | 5/16 | 3 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor Connector One Side Wire Entry

## IPL SERIES CONT'D



## FEATURES

- Wire entry ports on one side only.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

All dimensional data is listed in inches.

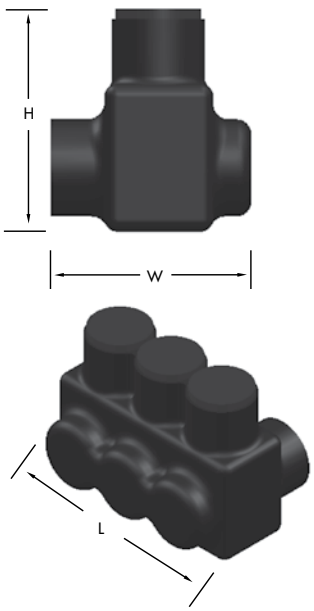
| CAT. NO. | NO. OF PORTS |
|---|---|
| IPL250-3 | 3 |
| IPL250-4 | 4 |
| IPL250-5 | 5 |
| IPL250-6 | 6 |
| IPL250-8 | 8 |
| IPL350-3 | 3 |
| IPL350-4 | 4 |
| IPL350-5 | 5 |
| IPL350-6 | 6 |
| IPL350-8 | 8 |
| IPL500-3 | 3 |
| IPL500-4 | 4 |
| IPL500-5 | 5 |
| IPL500-6 | 6 |
| IPL500-7 | 7 |
| IPL500-8 | 8 |
| IPL600-3* | 3 |
| IPL600-4* | 4 |
| IPL600-6* | 6 |
| IPL750-3** | 3 |
| IPL750-4** | 4 |
| IPL750-5** | 5 |
| IPL750-6** | 6 |

*AL7CU rated.
**Not UL listed.





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 250 MCM-6 AWG | 2.930 | 2.030 | 2.180 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 3.800 | 2.030 | 2.180 | 360 | 5/16 | 4 |
| 250 MCM-6 AWG | 4.660 | 2.030 | 2.180 | 360 | 5/16 | 4 |
| 250 MCM-6 AWG | 5.220 | 2.030 | 2.180 | 360 | 5/16 | 3 |
| 250 MCM-6 AWG | 7.240 | 2.030 | 2.180 | 400 | 5/16 | 4 |
| 350 MCM-6 AWG | 3.470 | 2.130 | 2.460 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 4.540 | 2.130 | 2.460 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 5.570 | 2.130 | 2.460 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 6.620 | 2.130 | 2.460 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 8.720 | 2.130 | 2.460 | 450 | 5/16 | 3 |
| 500 MCM-4 AWG | 3.960 | 2.500 | 2.940 | 450 | 5/16 | 3 |
| 500 MCM-4 AWG | 5.110 | 2.500 | 2.940 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 6.250 | 2.500 | 2.940 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 7.400 | 2.500 | 2.940 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 8.590 | 2.500 | 2.940 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 9.690 | 2.500 | 2.940 | 550 | 5/16 | 3 |
| 600 MCM-6 AWG | 4.470 | 2.710 | 3.020 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 5.770 | 2.710 | 3.020 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 8.370 | 2.710 | 3.020 | 550 | 3/8 | 3 |
| 750-250 MCM | 4.950 | 3.090 | 3.490 | 550 | 3/8 | 2 |
| 750-250 MCM | 6.380 | 3.090 | 3.490 | 550 | 3/8 | 1 |
| 750-250 MCM | 7.800 | 3.090 | 3.490 | 550 | 3/8 | 1 |
| 750-250 MCM | 9.230 | 3.090 | 3.490 | 550 | 3/8 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor Connector Either Side Wire Entry

## IPLD SERIES



## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

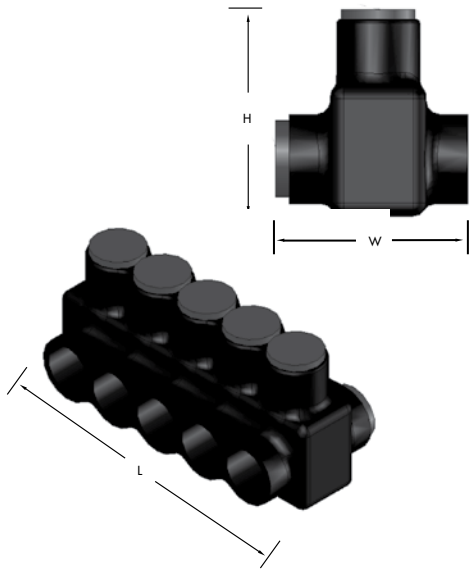
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| IPLD3/0-3 | 3 |
| IPLD3/0-4 | 4 |
| IPLD3/0-5 | 5 |
| IPLD3/0-6 | 6 |
| IPLD3/0-7 | 7 |
| IPLD3/0-8 | 8 |
| IPLD3/0-10 | 10 |
| IPLD3/0-12 | 12 |
| IPLD250-3 | 3 |
| IPLD250-4 | 4 |
| IPLD250-5 | 5 |
| IPLD250-6 | 6 |
| IPLD250-7 | 7 |
| IPLD250-8 | 8 |
| IPLD250-10 | 10 |
| IPLD250-12 | 12 |
| IPLD350-3 | 3 |
| IPLD350-4 | 4 |
| IPLD350-5 | 5 |
| IPLD350-6 | 6 |
| IPLD350-7 | 7 |
| IPLD350-8 | 8 |
| IPLD350-9 | 9 |
| IPLD350-10 | 10 |
| IPLD350-12 | 12 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 3/0-6 AWG | 2.630 | 1.830 | 1.790 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 3.410 | 1.830 | 1.790 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 4.190 | 1.830 | 1.790 | 250 | 1/4 | 4 |
| 3/0-6 AWG | 4.970 | 1.830 | 1.790 | 250 | 1/4 | 4 |
| 3/0-6 AWG | 5.750 | 1.830 | 1.790 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 6.530 | 1.830 | 1.790 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 8.090 | 1.830 | 1.790 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 11.210 | 1.830 | 1.790 | 250 | 1/4 | 2 |
| 250 MCM-6 AWG | 2.930 | 2.280 | 2.180 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 3.800 | 2.280 | 2.180 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 4.660 | 2.280 | 2.180 | 360 | 5/16 | 4 |
| 250 MCM-6 AWG | 5.520 | 2.280 | 2.180 | 360 | 5/16 | 4 |
| 250 MCM-6 AWG | 6.380 | 2.280 | 2.180 | 360 | 5/16 | 3 |
| 250 MCM-6 AWG | 7.240 | 2.280 | 2.180 | 360 | 5/16 | 3 |
| 250 MCM-6 AWG | 8.970 | 2.280 | 2.180 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 10.740 | 2.280 | 2.180 | 360 | 5/16 | 2 |
| 350 MCM-6 AWG | 3.520 | 2.410 | 2.610 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 4.570 | 2.410 | 2.610 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 5.620 | 2.410 | 2.610 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 6.670 | 2.410 | 2.610 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 7.720 | 2.410 | 2.610 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 8.770 | 2.410 | 2.610 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 9.820 | 2.410 | 2.610 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 10.870 | 2.410 | 2.610 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 12.970 | 2.410 | 2.610 | 400 | 5/16 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Cable Blocks Either Side Wire Entry

IPLD SERIES



## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

All dimensional data is listed in inches.

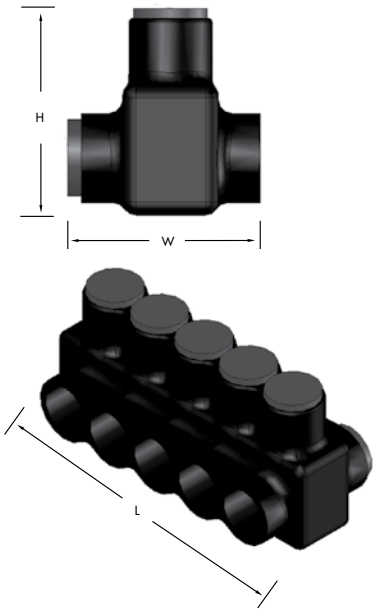
| CAT. NO. | NO. OF PORTS |
|---|---|
| **IPLD500-3** | 3 |
| **IPLD500-4** | 4 |
| **IPLD500-5** | 5 |
| **IPLD500-6** | 6 |
| **IPLD500-7** | 7 |
| **IPLD500-8** | 8 |
| **IPLD500-9** | 9 |
| **IPLD500-10** | 10 |
| **IPLD500-12** | 12 |
| **IPLD600-3** | 3 |
| **IPLD600-4** | 4 |
| **IPLD600-5** | 5 |
| **IPLD600-6** | 6 |
| **IPLD600-7** | 7 |
| **IPLD600-8** | 8 |
| **IPLD600-9** | 9 |
| **IPLD600-10** | 10 |
| **IPLD600-12** | 12 |
| **IPLD750-3*** | 3 |
| **IPLD750-4*** | 4 |
| **IPLD750-5*** | 5 |
| **IPLD750-6*** | 6 |
| **IPLD750-7*** | 7 |
| **IPLD750-8*** | 8 |
| **IPLD750-9*** | 9 |
| **IPLD750-10*** | 10 |
| **IPLD750-12*** | 12 |

*Not UL listed.





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 500 MCM-4 AWG | 4.010 | 2.830 | 2.910 | 450 | 5/16 | 3 |
| 500 MCM-4 AWG | 5.240 | 2.830 | 2.910 | 450 | 5/16 | 3 |
| 500 MCM-4 AWG | 6.380 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 7.520 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 8.670 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 9.820 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 10.880 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 12.110 | 2.960 | 3.030 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 14.400 | 2.960 | 3.030 | 450 | 5/16 | 1 |
| 600 MCM-6 AWG | 4.550 | 2.960 | 3.030 | 450 | 5/16 | 3 |
| 600 MCM-6 AWG | 5.850 | 2.960 | 3.030 | 450 | 5/16 | 3 |
| 600 MCM-6 AWG | 7.150 | 2.960 | 3.030 | 450 | 5/16 | 2 |
| 600 MCM-6 AWG | 8.450 | 2.960 | 3.030 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 9.750 | 2.960 | 3.030 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 11.050 | 2.960 | 3.030 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 12.390 | 2.960 | 3.030 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 13.650 | 3.410 | 3.420 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 16.250 | 3.410 | 3.420 | 550 | 5/16 | 1 |
| 750-250 MCM | 4.950 | 3.410 | 3.420 | 550 | 3/8 | 3 |
| 750-250 MCM | 6.380 | 3.410 | 3.420 | 550 | 3/8 | 2 |
| 750-250 MCM | 7.800 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 9.230 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 10.650 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 12.080 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 13.690 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 14.930 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 17.780 | 3.410 | 3.420 | 550 | 3/8 | 1 |



POLARIS™ INSULATED CONNECTORS

# Heavy Duty Connectors Either Side Wire Entry

## IPLDH SERIES



## FEATURES

- Connector block is double the size of the standard IPLD Series connector with two pressure screws provided for each cable to ensure the best connection possible.
- Designed, built and tested to handle even the most demanding applications from 250 MCM to 750 MCM.
- Insulated with high-dielectric strength plastisol molded for a precise fit.
- Supplied with removable access plugs to allow for cable entry from either side of the connector.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

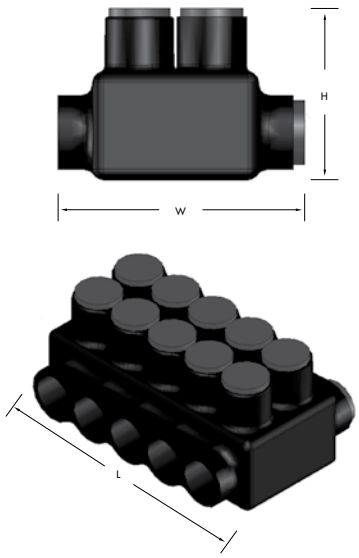
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| **IPLDH750-3** | 3 |
| **IPLDH750-4** | 4 |
| **IPLDH750-5** | 5 |
| **IPLDH750-6** | 6 |
| **IPLDH750-8** | 8 |
| **IPLDH750-10** | 10 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 750 MCM - 1/0 AWG | 4.950 | 4.460 | 3.300 | 550 | 5/16 | 2 |
| 750 MCM - 1/0 AWG | 6.380 | 4.460 | 3.300 | 550 | 5/16 | 2 |
| 750 MCM - 1/0 AWG | 7.800 | 4.460 | 3.300 | 550 | 5/16 | 1 |
| 750 MCM - 1/0 AWG | 9.230 | 4.460 | 3.300 | 550 | 5/16 | 1 |
| 750 MCM - 1/0 AWG | 12.080 | 4.460 | 3.300 | 550 | 5/16 | 1 |
| 750 MCM - 1/0 AWG | 14.600 | 4.460 | 3.300 | 550 | 5/16 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Cable Stacked Either Side Wire Entry

## IPLDS SERIES



## FEATURES

- Exceptional for use with large wire sizes, especially in tight-fitting spaces, small wire ways and panels.
- The wire holes on the bottom row allow for entry from either side of the connector for even greater versatility.
- Wire entry holes are stacked on top of each other for the ultimate in compact design.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

All dimensional data is listed in inches.

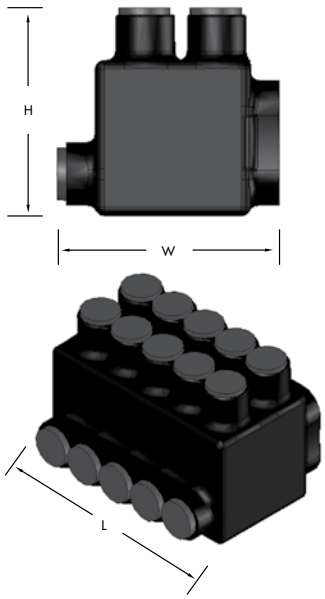
| CAT. NO. | NO. OF PORTS |
|---|---|
| **IPLDS350-4** | 4 |
| **IPLDS350-6** | 6 |
| **IPLDS350-8** | 8 |
| **IPLDS350-10** | 10 |
| **IPLDS350-12** | 12 |
| **IPLDS500-4** | 4 |
| **IPLDS500-6** | 6 |
| **IPLDS500-8** | 8 |
| **IPLDS500-10** | 10 |
| **IPLDS500-12** | 12 |
| **IPLDS750-6** | 6 |
| **IPLDS750-8** | 8 |
| **IPLDS750-10** | 10 |
| **IPLDS750-12** | 12 |

* 750 MCM not UL Listed.





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 350 MCM-6 AWG | 2.550 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 350 MCM-6 AWG | 3.600 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 350 MCM-6 AWG | 4.650 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 350 MCM-6 AWG | 5.700 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 350 MCM-6 AWG | 6.750 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 500 MCM-4 AWG | 2.940 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 4.080 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 5.230 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 6.380 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 7.520 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 750-250 MCM | 4.950 | 4.970 | 4.920 | 550 | 3/8 | 1 |
| 750-250 MCM | 6.380 | 4.970 | 4.920 | 550 | 3/8 | 1 |
| 750-250 MCM | 7.800 | 4.970 | 4.920 | 550 | 3/8 | 1 |
| 750-250 MCM | 9.230 | 4.970 | 4.920 | 550 | 3/8 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Connector Bloks With Mounting Holes, One Side Wire Entry

## IPLM SERIES



## FEATURES

- Wire entry ports on one side only.
- Mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- IPLM Series connectors are insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.
- Mounting holes will accept a 1/4" bolt.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables.
Not recommended for fine-stranded, flexible wire.

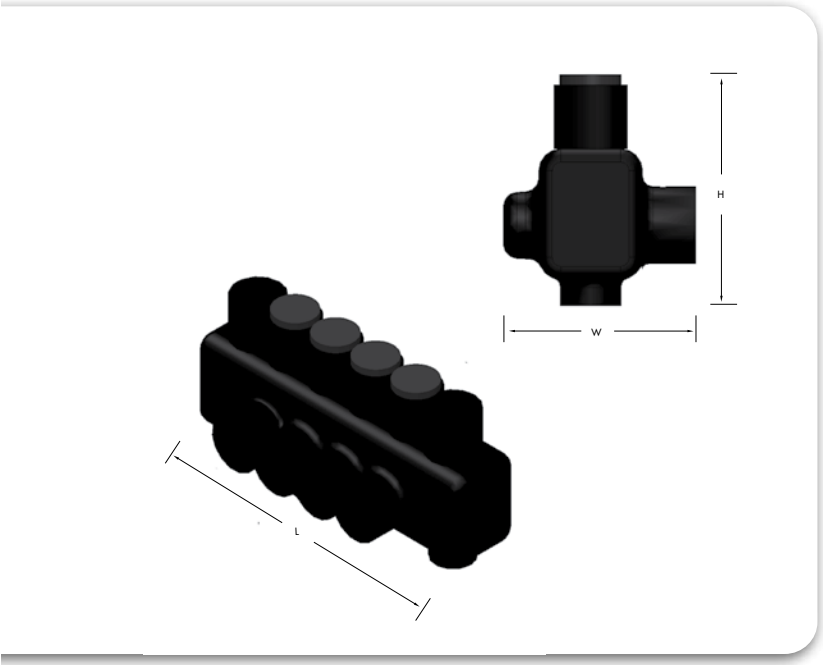
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| **IPLM4-3** | 3 |
| **IPLM4-4** | 4 |
| **IPLM4-5** | 5 |
| **IPLM4-6** | 6 |
| **IPLM4-7** | 7 |
| **IPLM4-10** | 10 |
| **IPLM1/0-3** | 3 |
| **IPLM1/0-4** | 4 |
| **IPLM1/0-5** | 5 |
| **IPLM1/0-6** | 6 |
| **IPLM1/0-8** | 8 |
| **IPLM1/0-9** | 9 |
| **IPLM1/0-10** | 10 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 4-14 AWG | 2.750 | 1.240 | 1.390 | 45 | Slotted | 6 |
| 4-14 AWG | 3.180 | 1.240 | 1.390 | 45 | Slotted | 6 |
| 4-14 AWG | 3.600 | 1.240 | 1.390 | 45 | Slotted | 4 |
| 4-14 AWG | 4.020 | 1.240 | 1.390 | 45 | Slotted | 4 |
| 4-14 AWG | 4.190 | 1.240 | 1.390 | 45 | Slotted | 4 |
| 4-14 AWG | 5.710 | 1.240 | 1.390 | 45 | Slotted | 3 |
| 1/0-14 AWG | 3.460 | 1.550 | 1.820 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 4.110 | 1.550 | 1.820 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 4.760 | 1.550 | 1.820 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 5.410 | 1.550 | 1.820 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 6.710 | 1.550 | 1.820 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 7.520 | 1.550 | 1.820 | 180 | 3/16 | 3 |
| 1/0-14 AWG | 8.010 | 1.550 | 1.820 | 180 | 3/16 | 3 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor With Mounting Holes, Either Side Wire Entry

IPLMD SERIES



## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Supplied with removable access plugs to close the entry port not being used.
- The mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- Insulated with high-dielectric strength plastisol. Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables.
Not recommended for fine-stranded, flexible wire.

**MOUNTING:**
Mounting holes will accept a 1/4″ bolt for
3/0 AWG and a 5/16″ bolt for 250 MCM and 350 MCM.

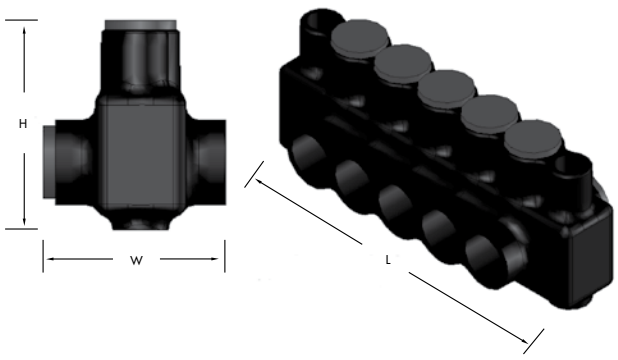
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| IPLMD3/0-3 | 3 |
| IPLMD3/0-4 | 4 |
| IPLMD3/0-5 | 5 |
| IPLMD3/0-6 | 6 |
| IPLMD3/0-7 | 7 |
| IPLMD3/0-8 | 8 |
| IPLMD3/0-9 | 9 |
| IPLMD3/0-10 | 10 |
| IPLMD250-3 | 3 |
| IPLMD250-4 | 4 |
| IPLMD250-5 | 5 |
| IPLMD250-6 | 6 |
| IPLMD250-7 | 7 |
| IPLMD250-8 | 8 |
| IPLMD250-10 | 10 |
| IPLMD250-12 | 12 |
| IPLMD350-3 | 3 |
| IPLMD350-4 | 4 |
| IPLMD350-5 | 5 |
| IPLMD350-6 | 6 |
| IPLMD350-7 | 7 |
| IPLMD350-8 | 8 |
| IPLMD350-10 | 10 |
| IPLMD350-12 | 12 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 3/0-6 AWG | 3.870 | 1.830 | 1.910 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 4.650 | 1.830 | 1.910 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 5.430 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 6.210 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 6.990 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 7.770 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 8.600 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 9.330 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 250 MCM-6 AWG | 4.420 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 5.280 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 6.140 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 7.010 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 7.820 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 8.730 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 10.400 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 12.130 | 2.280 | 2.370 | 360 | 5/16 | 1 |
| 350 MCM-6 AWG | 5.120 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 6.170 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 7.220 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 8.270 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 9.320 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 10.370 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 12.470 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 14.570 | 2.410 | 2.770 | 400 | 5/16 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor With Mounting Holes, Either Side Wire Entry

IPLMD SERIES CONT'D



## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Supplied with removable access plugs to close the entry port not being used.
- The mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables.
Not recommended for fine-stranded, flexible wire.

**MOUNTING:**
Mounting holes will accept a 1/4" bolt for
3/0 AWG and a 5/16" bolt for 250 MCM and 350 MCM.

All dimensional data is listed in inches.

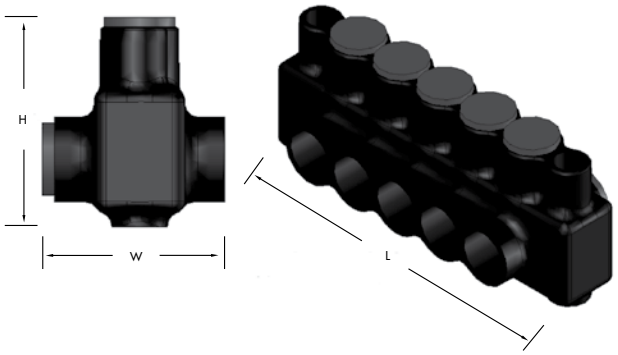
| CAT. NO. | NO. OF PORTS |
|---|---|
| IPLMD500-3 | 3 |
| IPLMD500-4 | 4 |
| IPLMD500-5 | 5 |
| IPLMD500-6 | 6 |
| IPLMD500-7 | 7 |
| IPLMD500-8 | 8 |
| IPLMD500-9 | 9 |
| IPLMD500-10 | 10 |
| IPLMD500-12 | 12 |
| IPLMD600-3 | 3 |
| IPLDM600-4 | 4 |
| IPLMD600-5 | 5 |
| IPLMD600-6 | 6 |
| IPLMD600-8 | 8 |
| IPLMD600-9 | 9 |
| IPLMD600-10 | 10 |
| IPLMD600-12 | 12 |
| IPLMD750-3* | 3 |
| IPLMD750-4* | 4 |
| IPLMD750-5* | 5 |
| IPLMD750-6* | 6 |
| IPLMD750-7* | 7 |
| IPLMD750-8* | 8 |
| IPLMD750-9* | 9 |
| IPLMD750-10* | 10 |
| IPLMD750-12* | 12 |

*750 MCM not UL listed





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 500 MCM-4 AWG | 5.510 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 6.650 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 7.800 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 8.940 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 9.710 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 11.230 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 12.480 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 13.520 | 2.810 | 3.030 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 15.440 | 2.810 | 3.030 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 5.880 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 7.180 | 2.960 | 3.150 | 550 | 5/16 | |
| 600 MCM-6 AWG | 8.480 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 9.780 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 10.700 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 13.610 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 14.980 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 17.200 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 750-250 MCM | 6.320 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 7.750 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 9.180 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 10.600 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 11.650 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 13.450 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 15.050 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 16.300 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 18.780 | 3.410 | 3.540 | 550 | 5/16 | 1 |



POLARIS™

# Submersible Pedestal Connectors

## ISPB, ISPC SERIES



## FEATURES

- Manufactured from high strength 6061-T6 aluminum alloy, providing premium electrical and mechanical performance.
- Radial tipped set-screws reduce conductor strand damage, and the range taking design allows for many sizes and types of conductors – all in one connector.
- Encapsulated in rubber with a nominal thickness of 125 mils. and high dielectric strength.
- ISPC connectors (clear) allow for an easier installation.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| ISPB350-3 | 3 |
| ISPB350-4 | 4 |
| ISPB350-6 | 6 |
| ISPC350-3 | 3 |
| ISPC350-4 | 4 |
| ISPC350-6 | 6 |
| ISPB600-3 | 3 |
| ISPB600-4 | 4 |
| ISPB600-6 | 6 |

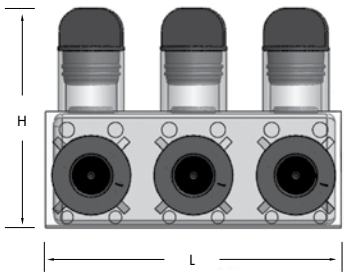
## RATINGS

Meets or exceeds ANSI C119.4 Class A specifications

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
For use with copper and/or aluminum cables.

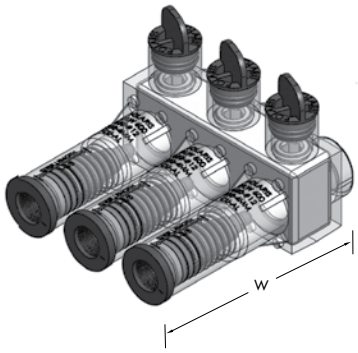
**INSTALLATION INSTRUCTIONS:**
See page 214 for detailed installation information.

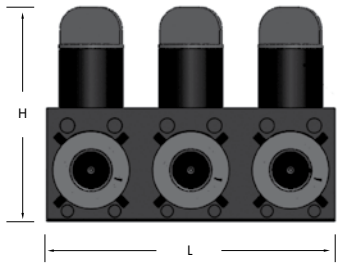


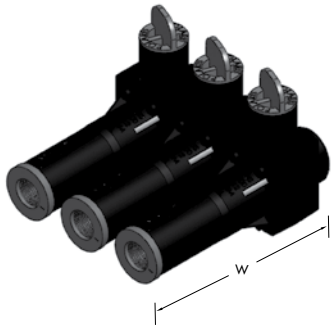




| COLOR | WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| Black | 350 MCM-12 AWG | 3.610 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Black | 350 MCM-12 AWG | 4.800 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Black | 350 MCM-12 AWG | 7.180 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Clear | 350 MCM-12 AWG | 3.610 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Clear | 350 MCM-12 AWG | 4.800 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Clear | 350 MCM-12 AWG | 7.180 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Black | 600 MCM-12 AWG | 4.870 | 5.460 | 3.130 | 550 | 5/16 | 1 |
| Black | 600 MCM-12 AWG | 6.560 | 5.460 | 3.130 | 550 | 5/16 | 1 |
| Black | 600 MCM-12 AWG | 9.940 | 5.460 | 3.130 | 550 | 5/16 | 1 |



POLARIS™

# Submersible Connectors

## ISPB, ISPBO, ISPBS SERIES



## FEATURES

- Manufactured from high strength 6061-T6 aluminum alloy, providing premium electrical and mechanical performance.
- Radial tipped set-screws reduce conductor strand damage, and the range taking design allows for many sizes and types of conductors – all in one connector.
- Encapsulated in rubber with a nominal thickness of 125 mils.
- Abrasion and chemical resistant, UV resistant
- Will not support combustion.

All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS | FIG. |
|---|---|---|
| **ISPBS2/0** | 2 | 1 |
| **ISPBS350** | 2 | 1 |
| **ISPB2/0-2** | 2 | 2 |
| **ISPB2/0-3** | 3 | 2 |
| **ISPB2/0-4** | 4 | 2 |
| **ISPB2/0-6** | 6 | 2 |
| **ISPBO2/0** | 3 | 3 |

*ISPBS350 - Not UL Listed.

## RATINGS

c UL us

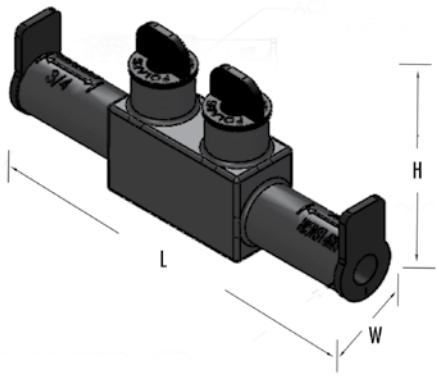
UL Listed 486D Wire Connector.
Meets or exceeds ANSI C119.4 Class A specifications.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for copper or aluminum conductors.

**INSTALLATION INSTRUCTIONS:**
See page 216 for detailed installation information.

**FIG. 1**





| COLOR | WIRE RANGE KCMIL | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| Black | 2/0-#14 | 5.05 | 0.88 | 2.1 | | 3/16 | 1 |
| Black | 350-#12 | 8.28 | 1.31 | 3.06 | | 5/16 | 1 |
| Black | 2/0-#14 | 1.93 | 2.65 | 2.10 | | 3/16 | 1 |
| Black | 2/0-#14 | 2.79 | 2.65 | 2.10 | SEE TABLE 1 | 3/16 | 1 |
| Black | 2/0-#14 | 3.65 | 2.65 | 2.10 | | 3/16 | 1 |
| Black | 2/0-#14 | 5.37 | 2.65 | 2.10 | | 3/16 | 1 |
| Black | 2/0-#14 | 2.79 | 4.18 | 2.10 | | 3/16 | 1 |

Table 1

| CONDUCTOR RANGE | INCH-POUNDS |
|---|---|
| #10 - #14 | 35 |
| #8 | 75 |
| 2/0-#6 | 120 |

**FIG. 2**

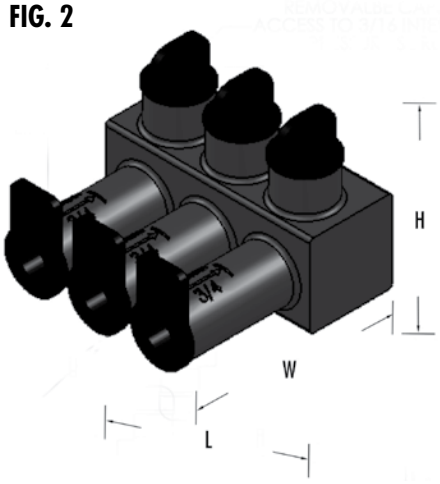
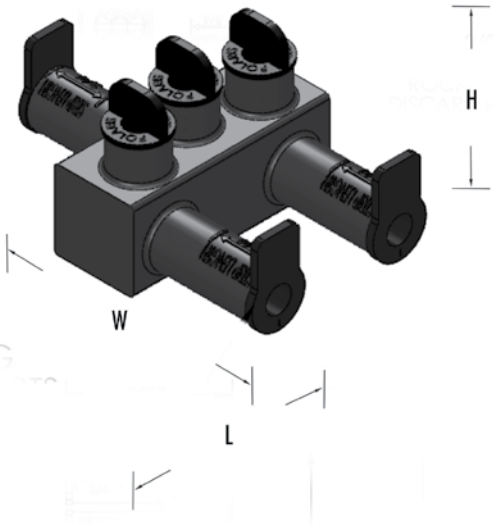



**FIG. 3**



POLARIS™

# Heavy Duty Uninsulated Either Side Wire Entry

## PLH SERIES



## FEATURES

- Connector block is double the size of the standard PL Series connector. Two pressure screws provided for each cable to ensure the best connection possible.
- Heavy duty PLH Series connectors are designed to handle the most demanding applications from 250 MCM to 750 MCM.
- Plated for corrosion resistance.

All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| **PLH750-6** | 6 |
| **PLH750-10** | 10 |

## RATINGS

c UL us

UL Listed 486B Wire Connector.

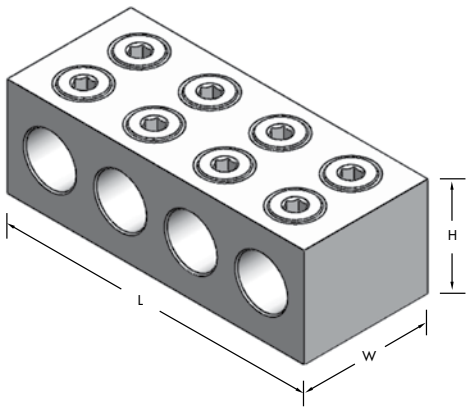
**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 750 MCM - 1/0 AWG | 8.850 | 2.500 | 2.000 | 550 | 5/16 | 1 |
| 750 MCM - 1/0 AWG | 14.550 | 2.500 | 2.000 | 550 | 5/16 | 1 |



POLARIS™

# Uninsulated Multi-Cable Connectors

## PL SERIES



## FEATURES

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Stocked in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

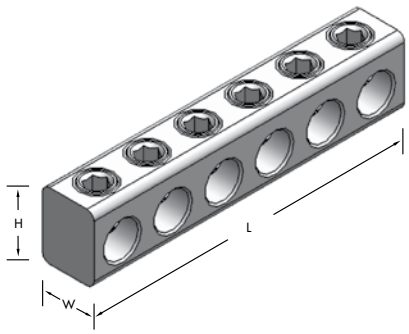
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| PL4-2 | 2 |
| PL4-3 | 3 |
| PL4-4 | 4 |
| PL4-5 | 5 |
| PL4-6 | 6 |
| PL4-8 | 8 |
| PL4-10 | 10 |
| PL4-14 | 14 |
| PL1/0-2 | 2 |
| PL1/0-3 | 3 |
| PL1/0-4 | 4 |
| PL1/0-5 | 5 |
| PL1/0-6 | 6 |
| PL1/0-7 | 7 |
| PL1/0-8 | 8 |
| PL1/0-10 | 10 |
| PL1/0-14 | 14 |
| PL3/0-3 | 3 |
| PL3/0-4 | 4 |
| PL3/0-5 | 5 |
| PL3/0-6 | 6 |
| PL3/0-7 | 7 |
| PL3/0-8 | 8 |
| PL3/0-9 | 9 |
| PL3/0-10 | 10 |
| PL3/0-12 | 12 |
| PL3/0-14 | 14 |
| PL250-2 | 2 |
| PL250-3 | 3 |
| PL250-4 | 4 |
| PL250-5 | 5 |
| PL250-6 | 6 |
| PL250-7 | 7 |
| PL250-8 | 8 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 4-14 AWG | 0.880 | 0.500 | 0.630 | 45 | Slotted | 12 |
| 4-14 AWG | 1.300 | 0.500 | 0.630 | 45 | Slotted | 12 |
| 4-14 AWG | 1.730 | 0.500 | 0.630 | 45 | Slotted | 12 |
| 4-14 AWG | 2.150 | 0.500 | 0.630 | 45 | Slotted | 6 |
| 4-14 AWG | 2.570 | 0.500 | 0.630 | 45 | Slotted | 6 |
| 4-14 AWG | 3.410 | 0.500 | 0.630 | 45 | Slotted | 6 |
| 4-14 AWG | 4.260 | 0.500 | 0.630 | 45 | Slotted | 4 |
| 4-14 AWG | 5.960 | 0.500 | 0.630 | 45 | Slotted | 2 |
| 1/0-14 AWG | 1.350 | 0.630 | 0.880 | 180 | 3/16 | 12 |
| 1/0-14 AWG | 2.000 | 0.630 | 0.880 | 180 | 3/16 | 12 |
| 1/0-14 AWG | 2.650 | 0.630 | 0.880 | 180 | 3/16 | 12 |
| 1/0-14 AWG | 3.300 | 0.630 | 0.880 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 3.950 | 0.630 | 0.880 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 4.610 | 0.630 | 0.880 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 5.250 | 0.630 | 0.880 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 6.550 | 0.630 | 0.880 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 9.150 | 0.630 | 0.880 | 180 | 3/16 | 2 |
| 3/0-6 AWG | 2.380 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 3.160 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 3.940 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 4.720 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 5.490 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 6.280 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 7.050 | 0.690 | 0.940 | 250 | 1/4 | 4 |
| 3/0-6 AWG | 7.840 | 0.690 | 0.940 | 250 | 1/4 | 4 |
| 3/0-6 AWG | 9.400 | 0.690 | 0.940 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 10.960 | 0.690 | 0.940 | 250 | 1/4 | 2 |
| 250 MCM-6 AWG | 1.820 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 2.680 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 3.550 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 4.410 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 5.270 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 6.140 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 6.990 | 0.880 | 1.130 | 360 | 5/16 | 6 |



POLARIS™

# Uninsulated Multi-Cable Connectors

## PL SERIES CONT'D



## FEATURES

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Stocked in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

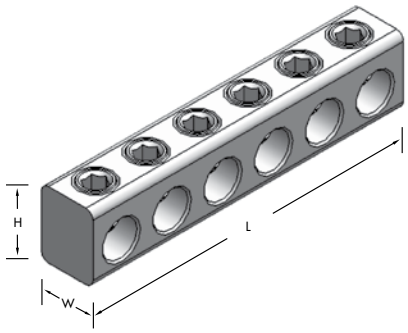
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| **PL250-9** | 9 |
| **PL250-10** | 10 |
| **PL250-11** | 11 |
| **PL250-12** | 12 |
| **PL350-3** | 3 |
| **PL350-4** | 4 |
| **PL350-6** | 6 |
| **PL350-8** | 8 |
| **PL350-10** | 10 |
| **PL500-4** | 4 |
| **PL500-6** | 6 |
| **PL500-7** | 7 |
| **PL500-8** | 8 |
| **PL500-9** | 9 |
| **PL500-10** | 10 |
| **PL750-3** | 3 |
| **PL750-4** | 4 |
| **PL750-6** | 6 |
| **PL750-8** | 8 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 250 MCM-6 AWG | 7.860 | 0.880 | 1.130 | 360 IN/LBS | 5/16 | 4 |
| 250 MCM-6 AWG | 8.720 | 0.880 | 1.130 | 360 IN/LBS | 5/16 | 4 |
| 250 MCM-6 AWG | 9.580 | 0.880 | 1.130 | 360 IN/LBS | 5/16 | 3 |
| 250 MCM-6 AWG | 10.450 | 0.880 | 1.130 | 360 IN/LBS | 5/16 | 3 |
| 350 MCM-6 AWG | 3.220 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 6 |
| 350 MCM-6 AWG | 4.270 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 6 |
| 350 MCM-6 AWG | 6.370 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 6 |
| 350 MCM-6 AWG | 8.470 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 4 |
| 350 MCM-6 AWG | 10.570 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 2 |
| 500 MCM-4 AWG | 4.860 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 4 |
| 500 MCM-4 AWG | 7.145 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 3 |
| 500 MCM-4 AWG | 8.280 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 3 |
| 500 MCM-4 AWG | 9.440 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 3 |
| 500 MCM-4 AWG | 10.570 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 2 |
| 500 MCM-4 AWG | 11.730 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 2 |
| 750-250 MCM | 4.570 | 1.440 | 2.000 | 550 IN/LBS | 3/8 | 3 |
| 750-250 MCM | 6.000 | 1.440 | 2.000 | 550 IN/LBS | 3/8 | 3 |
| 750-250 MCM | 8.850 | 1.440 | 2.000 | 550 IN/LBS | 3/8 | 2 |
| 750-250 MCM | 11.700 | 1.440 | 2.000 | 550 IN/LBS | 3/8 | 1 |



POLARIS™

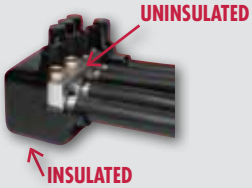
# Custom Designed Insulated Connector Blocks

Let us custom engineer and fabricate a UL Listed insulated block system for your next project. Each connector is made with exact hole size and number for the cable runs being used. You may choose to order a customized version of our IPL Series or add one or more of the options listed below.

The combinations we can create and produce are almost unlimited. Connector size can be up to 22" long also available without insulation. We custom design and machine your connector from your specifications and our engineering and production data.

## BUILD THE CATALOG NUMBER

Create a custom catalog number, follow the checklist and build your catalog number as you go. Call our sales staff at 800-321-5847 with any questions.

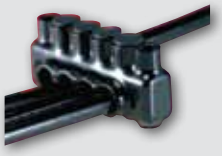



**Insulated/ Uninsulated**

Blocks are covered with a unique plastisol insulation but you are able to have uninsulated.

☐ **INSULATED** BLOCK USE **"I"**

☐ **UNINSULATED** BLOCK USE **"U"**



**Mounting**

Mounting holes are provided in each end of the connector block and are isolated from the block with insulated sleeves.

☐ **YES** ADD **"M"**

☐ **NO** LEAVE BLANK

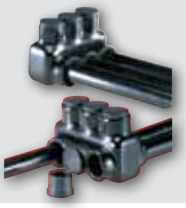
| WIRE RANGE | LETTER DESIGNATION |
|---|---|
| 4-14 | A |
| 1/0-14 | B |
| 3/0-6 | C |
| 250-6 | D |
| 350-6 | E |
| 500-4 | F |
| 600 | J |
| 750-250 | G |
| 1000-500 | H |

**Ports / Wire Size**

**Ports:** How many ports will you need? ___(space for #1)
**Wire Size:** Choose the letter indicating your wire size from the chart to the left:___

**Single Wire Size:**
A. 4 ports 500-4MCM = 4F
Add to the part number: 4F

**Multiple:**
A. 4 ports 500-4MCM = 4F
B. 6 ports 1/0-14 = 6B
C. 2 ports 2250MCM = 2D
Add to the part number: 4F6B2D



**Same/ Opposite Side**

Cable can enter either side of the connector block, based on your requirements. This eliminates having to bend the secondary cable around the connector.

☐ **YES** ADD **"O"**

☐ **NO** LEAVE BLANK



**Stacked**

Wire entry holes on top of the other, allowing the block to be shorter, in length and is ideal for use in small wireways or panels.

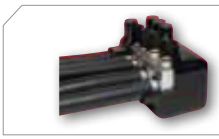
☐ **YES** ADD **"S"**

☐ **NO** LEAVE BLANK





nsi INDUSTRIES



# HOW TO BUILD A CUSTOM POLARIS™ CONNECTOR

## TORQUE CHART (IN./LBS.)

| WIRE SIZE | CONNECTOR SIZE 1000 | 750 | 600 | 500 | 350 | 250 | 3/0 | 1/0 | #4 |
|---|---|---|---|---|---|---|---|---|---|
| 800-1000 | 550 | | | | | | | | |
| 750-600 | 550 | 550 | 550 | | | | | | |
| 500 | 450 | 550 | 450 | 450 | | | | | |
| 400 | | 550 | 425 | 425 | | | | | |
| 350 | | 550 | 400 | 400 | 400 | | | | |
| 250 | | 550 | 360 | 360 | 360 | 360 | | | |
| 4/0 | | 550 | 250 | 250 | 250 | 250 | | | |
| 3/0 | | 550 | 250 | 250 | 250 | 250 | 250 | | |
| 2/0 | | 550 | 180 | 180 | 180 | 180 | 180 | | |
| 1/0 | | 550 | 180 | 180 | 180 | 180 | 180 | 180 | |
| #3-#1 | | | 150 | 150 | 150 | 150 | 150 | 150 | |
| #4-#6 | | | 110 | 110 | 110 | 110 | 110 | 110 | 45 |
| #8 | | | | | | | | 75 | 40 |
| #10-#14 | | | | | | | | 35 | 35 |

## STRIP CHART FOR STANDARD CONNECTORS

| CONNECTOR SIZE | STRIP LENGTH | BOLT DIA. FOR MOUNTING |
|---|---|---|
| 750 H | 3.250 | 5/16 |
| ISRH 750 | 2.312 | 5/16 |
| 750 MCM | 2.000 | 5/16 |
| 600 MCM | 1.625 | 5/16 |
| 500 MCM | 1.625 | 5/16 |
| 350 MCM | 1.375 | 5/16 |
| 250 MCM | 1.250 | 5/16 |
| ISR 250 | 1.125 | 5/16 |
| 3/0 AWG | 1.000 | 1/4 |
| 1/0 AWG | 0.875 | 1/4 |
| 4 AWG | 0.689 | 3/16 |

## ACCESSORIES

| CATALOG NO. | UPC CODE | DESCRIPTION | CONNECTION SIZE | STD. CNT. QTY. |
|---|---|---|---|---|
| SP-4 | 95201 | Set-screw covers | 4 AWG | 15 |
| SP-1/0 | 95202 | Set-screw covers | 1/0 AWG | 15 |
| SP-3/0 | 95203 | Set-screw covers | 3/0 AWG | 15 |
| SP-250 | 95204 | Set-screw covers | 250 MCM | 12 |
| SP-350 | 95205 | Set-screw covers | 350 MCM | 10 |
| SP-500 | 95206 | Set-screw covers | 500 MCM | 8 |
| SP-600 | 78940 | Set-screw covers | 600 MCM | 6 |
| SP-750 | 95207 | Set-screw covers | 750 MCM | 6 |
| CP-3/0 | 95210 | Cable port plugs | 3/0 AWG | 15 |
| CP-250 | 95211 | Cable port plugs | 250 MCM | 10 |
| CP-350 | 95212 | Cable port plugs | 350 MCM | 8 |
| CP-500 | 95213 | Cable port plugs | 500 MCM | 6 |
| CP-600 | 78943 | Cable port plugs | 600 MCM | 4 |
| CP-750 | 95214 | Cable port plugs | 750 MCM | 4 |

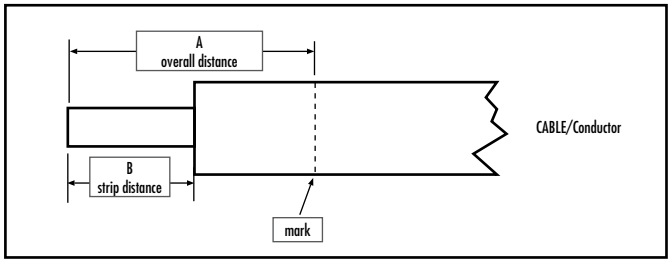


## POLARIS BLUE™ SUBMERSIBLE & DIRECT BURIAL CONNECTORS

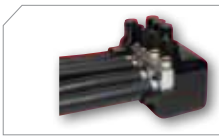
1. Refer to the installation chart on the other side for; overall distances, strip lengths, and tightening torque values.
2. Conductor must have insulation acceptable for direct burial.
3. Wipe off any foreign material (dirt, water, oil, etc.) on insulation of conductor to be spliced.
4. Mark the conductor insulation with the proper overall distance for the connector model number being used.
5. Mark the conductor insulation with the proper strip length for the connector model number being used.
6. Remove the conductor insulation up to the marked strip length, be sure not to "score" or "nick" the conductor.
7. Using the oxide inhibitor provided, lubricate the conductor insulation by lightly coating the exposed conductor and insulation up to the marked overall distance.

   —— NOTE: Step 7 is optional, but will make installation quick and easy. ——
8. Back off pressure screws enough to allow the stripped conductor to enter the connector block.
9. Insert the conductor into the connector, slide the connector over the conductor until the end of the connector insulation is within 1/8" of the overall mark on the conductor insulation.
10. Tighten the pressure screws to the proper torque value for the connector model number being used.
11. Insert the caps to cover the pressure screws. Press caps firmly into place.
12. Do not alter the connector to the connector insulation in any manner!
13. Use only the pre-installed oxide inhibitor.
14. Caps are not a sealing mechanism in the wire entry ports, all wire entry ports must have a properly sized conductor installed.

| PART NO. | WIRE RANGE | (A)OVERALL DISTANCE (IN.) | (B)STRIP LENGTH (IN.) | TIGHTENING TORQUE (IN./LBS.) |
|---|---|---|---|---|
| ITW 250 | 250mcm- 4/0 AWG | 3 9/16 | 1 1/8 | 360 |
| IPLW 250- | 250mcm- 4/0 AWG | 3 9/16 | 1 1/8 | 360 |
| ISW 250 | 250mcm- 4/0 AWG | 3 9/16 | 1 1/8 | 360 |
| ITW 3/0- | 3/0 AWG-2/0 AWG-1/0 AWG | 3 5/16 | 15/16 | 250 |
| IPLW 3/0- | 3/0 AWG-2/0 AWG-1/0 AWG | 3 5/16 | 15/16 | 250 |
| ISW 3/0 | 3/0 AWG-2/0 AWG-1/0 AWG | 3 5/16 | 15/16 | 250 |
| ITW 1 | #1 AWG - #2 AWG | 3 1/4 | 15/16 | 150 |
| IPLW 1- | #1 AWG - #2 AWG | 3 1/4 | 15/16 | 150 |
| ISW 1 | #1 AWG - #2 AWG | 3 1/4 | 15/16 | 150 |
| ITW 4 | #4 AWG - #6 AWG | 3 | 3/4 | 45 |
| IPLW 4- | #4 AWG - #6 AWG | 3 | 3/4 | 45 |
| ISW 4 | #4 AWG - #6 AWG | 3 1/16 | 13/16 | 45 |




The UL Listing is for stranded wire only, AL-CU 600V maximum.
The connector and insulation are rated for 90° C.
The connectors are intended for Submersible/Direct Burial/Below Grade Applications





## POLARIS™ ISPB & ISPC SUBMERSIBLE PEDESTAL CONNECTORS

1. Remove cable insulation 1-1/8" from end of conductor (insulation strip length imprinted on conductor port).
2. Wire brush bare conductor.
3. Remove conductor sleeve from connector.
4. Select and cutoff the correct step end at tip of arrow on the sleeve. Make sure to cut sleeve straight across the end of step. Discard sleeve for 300 and 350 MCM.
5. Reinsert the conductor sleeve (rocket) if required.
6. Remove set-screw access plug and loosen set-screw to allow cable insertion.
7. Insert conductor into the cable outlet or rocket until conductor hits the back of the connector and tighten set-screw to the recommended torque (Table 1).
8. Replace set-screw access plug.

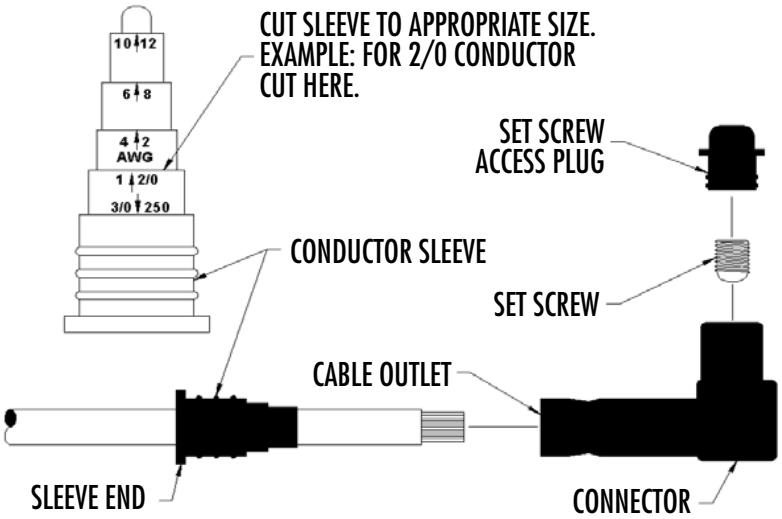



Table 1

| CONDUCTOR RANGE | INCH-POUNDS |
|---|---|
| #12 - #6 | 135 |
| #4 - 3/0 | 210 |
| 4/0 - 350 | 360 |

# Installation Instructions

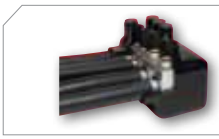
Wire insulation must be stripped in accordance with the Standard Connector Strip Length Chart below. The wire insulation on a properly installed connector must be inside the conductor port no less than 3/8 inch. Pressure screws MUST be secured at the torque value given on the Torque Charts corresponding to the connector, wire size and classification shown on the reverse side. The UL listing is for stranded wire only, CU 600 Volts maximum for building wiring and 1000 volts maximum for signs or luminaries. The connector and insulation temperature rating is 90˚C.

| STRIP LENGTH CHART | |
|---|---|
| CONNECTOR SIZE | STRIP LENGTH (IN) |
| 3/0 | 1 |
| #1 | 7/8 |
| #6 | 11/16 |

## TORQUE CHART FOR POLARIS GREY™ CONNECTORS IN INCH POUNDS

| BUILDING WIRE CLASS B, C, D WIRE SIZE AWG | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTOR | 3/0 | 2/0 | 1/0 | #1 | #2 | #3 | #4 | #6 | #8 | #10 | #12 | #14 |
| 3/0 | 250 | 180 | 180 | 120 | 120 | 120 | 110 | | | | | |
| #1 | | | | 150 | 150 | 150 | 110 | 110 | 75 | 45 | | |
| #6 | | | | | | | | 45 | 45 | 45 | 45 | 45 |

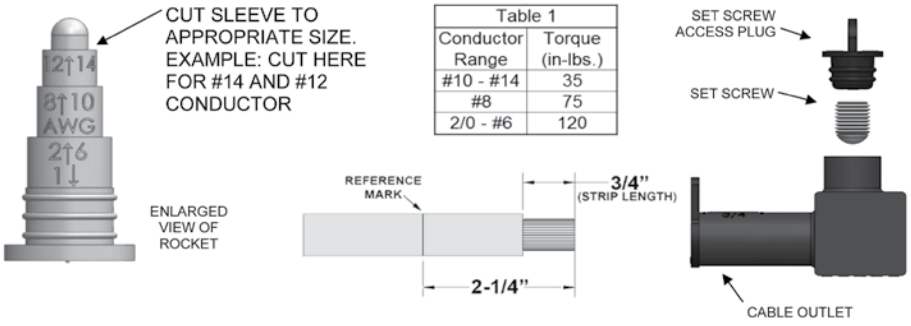
| FLEXIBLE WIRE CLASS K, M, I WIRE SIZE AWG | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTOR | 3/0 | 2/0 | 1/0 | #1 | #2 | #3 | #4 | #6 | #8 | #10 | #12 | #14 |
| 3/0 | | 180 | 180 | 120 | 120 | | | | | | | |
| #1 | | | | | 150 | 150 | 110 | 110 | 75 | 45 | | |
| #6 | | | | | | | | 45 | 45 | 45 | 45 | 45 |





## POLARIS™ ISPB

1. Conductor must have insulation acceptable for wet or damp locations.
2. Wipe off any foreign material (dirt, water, oil, etc.) on insulation of conductor to be spliced.
3. Mark the conductor insulation 3/4" and 2-1/4" from the end. Insulation strip length imprinted on connector.
4. Remove the conductor insulation up to the 3/4" strip length, be sure not to "score" or "nick" conductor (bare wire). Tip - For wire sizes #1 and larger bevel edge of insulation.
5. Wire brush bare conductor.
6. Remove conductor sleeve (rocket) from connector. Discard sleeve for 1/0-2/0 AWG (if discarded go to step 9).
7. Select and cutoff the step appropriate for size indicated on the sleeve. Make sure to cut sleeve straight across the end of teh appropriate size step.
8. Reinsert the conductor sleeve (Rocket).
9. Remove set-screw access plug and loosen set-screw to allow conductor insertion.
10. For easier assembly lubricate the exterior of conductor insulation with the included dielectric silicone grease.
11. Insert conductor into the cable outlet or rocket until the 2-1/4" reference mark is even with end of cable outlet. The end of the conductor should hit back of connector.
12. Tighten the pressure screws to the recommended torque below. (Table 1)
13. Replace set-screw access plug.




| Table 1 | |
|---|---|
| Conductor Range | Torque (in-lbs.) |
| #10 - #14 | 35 |
| #8 | 75 |
| 2/0 - #6 | 120 |

| Table 1 | |
|---|---|
| CONDUCTOR RANGE | INCH-POUNDS |
| #10 - #14 | 35 |
| #8 | 75 |
| 2/0-#6 | 120 |





# SPLICING

EASY-SPLICE™

# Wrap-Around Gel Splice Kits

## WAGS SERIES



## FEATURES

- Wrap-around gel splice closure sleeves quickly insulate and seal buried electrical connections rated up to 1,000 volts.
- Engineered to handle direct burial and manhole applications, these splice enclosure sleeves are equally well suited for insulation and jacket repair.
- Simply wrap and snap the sleeve on any cable in the use range.
- The sealant gel in the sleeve seals on contact.
- The splice closure sleeve can be applied on all common compression connectors and low voltage cables, as well as in-line mechanical connectors.

## RATINGS

**APPLICATION:**
Qualified to ANSI C119.1-1986 for underground splicing.

**RATING:**
Insulate and seal buried electrical connections rated up to 1,000 volts.

A minimum seal length is required on each side of the connector opening or jacket damage.

Use these guidelines for minimum seal distance:
WAGS-4/0 series: 1.50″ each side
WAGS-500 series: 2.00″ each side
WAGS-750 series: 3.00″ each side

All dimensional data is listed in inches.

| CAT. NO. | CONDUCTOR SIZE | GENERAL USE DIA. LENGTH | SLEEVE LENGTH | MAX. CONDUCTOR OPENING | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **WAGS-4/0-4** | 4/0-14 AWG | 0.15-0.70 (4-18) | 4.00 (100) | 1.00 (25) | 3 |
| **WAGS-4/0-6** | 4/0-14 AWG | 0.15-0.70 (4-18) | 6.00 (150) | 3.00 (75) | 3 |
| **WAGS-4/0-8** | 4/0-14 AWG | 0.15-0.70 (4-18) | 8.00 (200) | 5.00 (125) | 3 |
| **WAGS-4/0-10** | 4/0-14 AWG | 0.15-0.70 (4-18) | 10.00 (250) | 7.00 (175) | 3 |
| **WAGS-500-8** | 500 MCM-6 AWG | 0.30-1.30 (10-33) | 8.00 (200) | 4.00 (100) | 3 |
| **WAGS-500-10** | 500 MCM-6 AWG | 0.30-1.30 (10-33) | 10.00 (250) | 6.00 (150) | 3 |
| **WAGS-750-10** | 750-250 MCM | 0.80-1.50 (20-38) | 10.00 (250) | 4.00 (100) | 3 |
| **WAGS-750-14** | 750-250 MCM | 0.80-1.50 (20-38) | 14.00 (355) | 4.00 (100) | 3 |

EASY-SPLICE™

# Wrap-Around UF Splice Kit

ESUF SERIES





## FEATURES

- Wrap-around UF splice kit provides a quick and convenient method of splicing underground feeder (UF) cable.
- Convenient wrap-around design and fast installation. No heating or waiting for compounds to cure.
- The unique sealing gel entirely encapsulates the splice, completely sealing out moisture and other contaminants.
- Kit includes connector and closure.

## RATINGS

**RATING:**
The splice kit is rated for 600V applications.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|
| **ESUF** | 14/2 To 8/3 with ground | 8.000 | 3 |

EASY-SPLICE™

# In-Line Gel Splice Kit With Connector

ESGS SERIES



## FEATURES

- In-line gel splice kit provides a sealed splice for underground, buried and overhead applications.
- Closure offers a fast and simple method for splicing, insulating and environmentally sealing low voltage cable splices.
- Simply install the connector on a copper or aluminum cable, place it in the closure, and snap closed.
- The splice kit is watertight for use in all locations.
- Sealing and corrosion protection provided by sealant gel.

## RATINGS

**TEMPERATURE RATING:**
-40 °C to 90 °C (-40 °F to 194 °F), 1000V.

**APPLICATION:**
Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **ESGS-4/0** | #2 – 4/0 AWG | 4.229 | 1.973 | 1.097 | 3 |

EASY-SPLICE™

# Gel Tap Splice Kit With Connector

ESGTS SERIES





## FEATURES

- Fast and simple method for connecting, insulating, and environmentally sealing low-voltage splices.
- Designed for underground and overhead environments and is useful for street lighting applications.
- The kit's dual-rated mechanical connector splices a wide range of cables, including copper and aluminum.
- Four port design allows maximum inventory flexibility.
- Sealant gel protects the connection from moisture ingress, corrosion and pollution.
- Hinged splice closure can be installed over the connector in seconds by simply snapping the cover shut.

## RATINGS

**TEMPERATURE RATING:**
-40 °C to 90 °C (-40 °F to 194 °F), 1000V.

**APPLICATION:**
Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **ESGTS-2** | #14 – #2 AWG | 2.750 | 1.625 | 1.063 | 3 |
| **ESGTS-2/0** | #14 – 2/0 AWG | 4.250 | 2.000 | 1.188 | 3 |

EASY-SPLICE™

# Gel Stub Splice Kit With Connector

## ESSLK SERIES



## FEATURES

- Perfect for street light connections.
- Accepts wires from #14 to 2/0 AWG (feeder cable). Use the single port that accepts #14 to #6 AWG to power the light.
- Specially formulated material provides excellent abrasion resistance, insulation value and UV resistance.
- The cap is clear to allow visual inspection of connector positioning during installation and connector performance during service life.
- Corrosion protection is provided by the sealant gel.

## RATINGS

c UL us

**TEMPERATURE RATING:**
-40 °C to 90 °C.

**APPLICATION:**
Gel stub splice kit insulates, seals and protects stub splice connections up to 1,000 volts.

**INSTALLATION:**
To install, simply push the cover down over the connection and snap the clamp closed.

Kit includes a UL listed connector for use with copper and/or aluminum conductors, a gel filled cap and a cap clamp.

All dimensional data is listed in inches.

| CAT. NO | WIRE RANGE | | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | HOLE A | HOLE B | | | | HOLE A | HOLE B | |
| **ESSLK-2/0** | 14-2/0 AWG | 6-14 AWG | 2.760 | 1.660 | 1.185 | 120-180IN/ Lbs | 120-150IN/ Lbs | 3 |

| TESTING | TEST CONDITIONS |
|---|---|
| Chemical Resistance | Astm D543, Sulfuric Acid, Sodium Hydroxide, Transformer And Motor Oil |
| Ozone Resistance | Astm D1149, 120 Hours @ 40˚C, 50Pphm |
| Accelerated Aging | Astm D2671 |
| Uv Resistance | Astm G154, Uvb, 4,000 Hours On/Off Cycle |
| Abrasion Resistance | 2040 Gm Wt., 4,000 Cycles, 5% Max Thickness Loss |

EASY-SPLICE™

# H-Tap Gel Splice Covers With Connector

## ESGHS SERIES





## FEATURES

- Low-voltage H-frame closure insulates and seals low-voltage cable-taps and and splices made with H-frame compression connectors.
- The closure utilizes sealing gel material to seal and protect the connection from moisture ingress, corrosion and pollution.
- H tap gel splice covers do not include connector.

## RATINGS

**TEMPERATURE RATING:**
-40 °C to 90 °C.
1000V, UV resistant.
Qualified to ANSI C119.1-1986 for underground splicing.

**APPLICATION:**
The low-voltage H-frame closure is ideal for both underground and overhead applications and is especially useful for street lighting applications.

**INSTALLATION:**
To install, simply place the connection on the closure and press the closure together.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| | MAIN | TAP | | | | |
| **ESGHS-BG** | 6-2 AWG | 14-8 AWG | 2.700 | 1.583 | 1.055 | 3 |
| **ESGHS-O** | 2-2/0 AWG | 14-6 AWG | 4.230 | 1.988 | 1.083 | 3 |
| **ESGHS-N** | 350 MCM | 4/0 AWG | 6.000 | 3.240 | 2.110 | 3 |

| ESGHS-0 APPROVED CONNECTORS | | | | |
|---|---|---|---|---|
| Blackburn WR139 | Burndy YH0-1 | Homac 0B22 | **NSi WRD139** | T&B 63110 |
| Blackburn WR159 | Burndy YH0-2 | Homac 0B44 | **NSi WRD159** | UTILCO HT1 |
| Blackburn WR179 | Burndy YH0 100 | Homac 0B102 | **NSi WRD179** | UTILCO HT2 |
| Blackburn WR199 | Burndy YH0 125 | Homac 0B103 | **NSi WRD199** | |
| | Burndy YH0 150 | | | |

| ESGHS-BG APPROVED CONNECTORS | |
|---|---|
| Blackburn WR9 | NSi WR9 |
| Burndy YPC2A8U | T&B 63105 |
| Homac UB214 | |

EASY-SPLICE™

# Push-On Gel Stub Splice Kits

GSS SERIES



## FEATURES

- Quickly and conveniently insulate, seal, and protect stub splice connections up to 1,000 volts.
- Specially formulated material provides excellent abrasion resistance, insulation value, and UV resistance.
- Each cap size is designed to fit a wide range of cable sizes, the expandable design keeps the cap as small as possible allowing it to expand only as much as needed to fit.
- The GSS-10 kit is designed for three phases in one kit.
- It includes one gel filled cap, one cap clamp, and one phase separator.
- The remaining kits include three of each – one per phase.

## RATINGS

c UL us

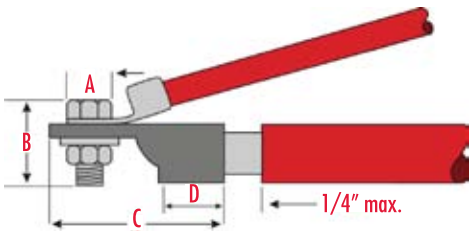
**TEMPERATURE RATING:**
105 °C.

**APPLICATION:**
Insulate, seal, and protect stub splice connections up to 1,000 volts. The robust yet compact design is engineered to handle the harsh environment of motor and many other connection applications (including street lights).

**INSTALLATION:**
GSS connector kits provide the fastest installation. Simply slide the cover down over the connection and snap the clamp closed. Sealant gel is already in the cap.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | MAX. BOLT DIMENSION WIDTH (A) | MAX. BOLT DIMENSION LENGTH (B) | MAX. LUG DIMENSION TOTAL LENGTH (C) | MAX. LUG DIMENSION BARREL LENGTH (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **GSS-10** | 16-10 AWG | 0.375 | 0.500 | 1.000 | 0.500 | 5 |
| **GSS-2** | 8-2 AWG | 0.625 | 1.000 | 2.000 | 1.000 | 5 |
| **GSS-4/0** | 2-4/0 AWG | 0.850 | 1.300 | 3.000 | 1.500 | 5 |
| **GSS-500** | 250-500 MCM | 1.100 | 1.850 | 5.000 | 2.000 | 5 |








nsi INDUSTRIES

EASY-SPLICE™

# Direct Burial Roll-On Splice Sleeve

ROS SERIES



## FEATURES

- Easy "roll-on" way to insulate and seal cable connections up to 1,000 volts.
- The gripping force of the EPDM elastomer combines with high performance sealant to form a water resistant, UV resistant insulating sleeve appropriate for direct burial application over in-line compression connectors.
- Ideal for use where gas or electric heating devices are not approved.
- RUS accepted for use as a secondary tap or splice cover.
- Each kit includes one Easy-Splice™ sleeve and sealant strips.

## RATINGS

**RATING:**
Qualified to ANSI C119.1-1986. CSA certified to C22.2 No. 198.2. UL 486D listed, suitable for direct burial.

**APPLICATION:**
For use on standard poly or elastomeric-insulated cables. Insulates and seals in-line compression connectors or terminal lugs. Cable can be energized immediately.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | CABLE O.D. | SLEEVE LENGTH | MAX. CONNECTOR LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **ROS-2/0** | 8-2/0 AWG | 0.22-0.68 | 8.00 | 5.00 | 5 |
| **ROS-250** | 1/0 AWG-250 MCM | 0.50-0.90 | 9.50 | 4.50 | 5 |
| **ROS-600** | 250-600 MCM | 0.70-1.20 | 12.00 | 7.00 | 5 |



EASY-SPLICE™

# Direct Burial Splice Kit With Rubber Cover

RSK SERIES



## FEATURES

- Dual-rated for use with copper and aluminum cable, these kits consist of an in-line mechanical set-screw connector pre-filled with oxide inhibitor and an EPDM rubber insulating cover to ensure a watertight seal.

## RATINGS

**RATING:**
600V.

**APPLICATION:**
street lights, motor connection, irrigation systems, HVAC, outdoor lighting, and over wire nuts for a secure seal.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | CONNECTOR LENGTH | STD. CTN. QTY. |
|---|---|---|---|
| **RSK-2/0** | #14 – 2/0 AWG | 1.880 | 12 |
| **RSK-350** | #6 AWG – 350 MCM | 3.000 | 6 |
| **RSK-500** | 2/0 AWG – 500 MCM | 3.190 | 6 |
| **RSK-750** | 250 MCM – 750 MCM | 6.250 | 3 |

EASY-SPLICE™

# Self Sealing UF Splice Kit and Hot Melt Sealant Sleeves

SKSS & HMSS Series





## SELF SEALING UF SPLICE KIT

- Fully waterproof, submersible and re-enterable splice, through the use of uniquely designed interference fit covers.
- Kit comes complete with a connector, silicone and cover. AWG UF cable.

All dimensional data is listed in inches.

| NO. OF CONDUCTORS | CAT. NO. | WIRE RANGE | CONNECTOR LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|
| 2 | **SKSS-2** | 14/2-10/2 | 9.500 | 12 |
| 3 | **SKSS-3** | 14/3-10/3 | 9.500 | 12 |

## HOT MELT SEALANT SLEEVES

- Used to provide a cable block in multi-conductor cables.



## RATINGS

**INSTALLATION:**
Use a minimum of one sleeve for every two cable conductors. Install HWHS or CRS product over HMSS sealant sleeves to melt sealant sleeves and provide cable block.

All dimensional data is listed in inches.

| CAT. NO. | LENGTH | INSIDE DIA. | NO. OF SLEEVES/CONDUCTOR | STD. CTN. QTY. |
|---|---|---|---|---|
| **HMSS-4-40** | 1.75 | 0.160 | #24 – #20 AWG: Use 1 Sleeve/ 2 Conductors | 100 |
| | 1.75 | 0.160 | #14 – #12 AWG: Use 1 Sleeve/ Conductor | 100 |

EASY-SPLICE™

# Direct Burial/ Submersible Splice Kits With Heat Shrink

SK SERIES



## FEATURES

### 1. COPPER BUTT SPLICE KITS

Mechanical copper butt splice and a heavy wall heat shrink tubing to create a fully insulated splice for copper conductors only.

### 2. DUAL RATED BUTT SPLICE KITS

Mechanical dual rated splice and matched heavy wall heat shrink tubing to create an insulated splice for copper and/or aluminum cables.

### 3. UF CABLE SPLICE KIT

For simplified splicing of UF cable designed with heavy wall heat shrink with sealant. This kit will accommodate 14/3 through 8/3 with ground UF cable and create a direct burial splice. Contains one four-position connector.

### 4. UF STRETCHER KIT

Eliminates the need for using two connectors and a short piece of cable when repairing damaged UF cable. Includes one 11.5" connector that will accommodate 14/3 without GRD minimum and 8/3 with GRD maximum. 600 Volt, 105°C. Utilizes heavy wall shrink with sealant for a quick and reliable repair.

## RATINGS

**TEMPERATURE RATING:**
105 °C.
600V Max.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **SKCB-8** | 1 | #14 to #8 AWG | 24 |
| **SKCB-2** | 1 | #8 to #2 AWG | 24 |
| **SKAB-2** | 2 | #8 to #2 AWG | 24 |
| **SKAB-0** | 2 | #6 to 1/0 AWG | 24 |
| **SKAB-250** | 2 | 1/0 AWG to 250 MCM | 12 |
| **SKDB** | 3 | 14/3 to 8/3 | 24 |
| **SKUF** | 4 | 14/3 to 8/3 | 12 |

EASY-SPLICE™

# Heat Shrinkable End Caps

HSC SERIES





## FEATURES

- These caps replace greases, tapes, epoxy, encapsulation, or dips. In most sizes, installation may be accomplished in less than one minute.
- Heat-shrinkable end caps provide for efficient and positive cable end sealing.
- Made of thermally stabilized polyolefin, the interior of the HSC is coated with a meltable sealant to assure a watertight seal, complete insulation, abrasion and corrosion resistance.
- Seals may be affected over lead, steel, aluminum, copper and all standard plastic and elastomeric insulating materials and conduit.
- HSC end sealing caps can be used as a live seal for cables carrying up to 1,000V.
- They can also be used as end seals for storing and pulling de-energized cable.

## RATINGS

HSC end sealing caps are qualified to ANSI C119.
1-1986 and rated to ICEA electrical withstand test for 1,000 volts.

All dimensional data is listed in inches.

| CAT. NO. | CONDUCTOR SIZE | GENERAL USE RANGE | | STD. CTN. QTY. |
|---|---|---|---|---|
| | | MAX. | MIN. | |
| **HSC-70** | 6-3/0 AWG | 0.700 | 0.300 | 10 |
| **HSC-125** | 4/0 AWG-750 MCM | 1.250 | 0.650 | 10 |
| **HSC-195** | 750-1500 MCM | 1.950 | 1.050 | 10 |
| **HSC-450** | – | 4.500 | 2.950 | 2 |

EASY-SPLICE™

# Heavy Wall Heat Shrink For Direct Burial And Submersible

## HWHS SERIES



## FEATURES

- Made of specially formulated polyolefin irradiated and thermally stabilized to give the material "elastic memory".
- When a proper amount of heat is directly applied to the shrink sleeve, it will permanently shrink to its original unexpanded diameter tightly cover and "mold" itself into irregular shapes
- The interior of the sleeve is coated with an adhesive that assures a watertight seal after shrinking
- For use on standard poly- or elastomeric-insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring.
- RUS accepted for use as a secondary tap or splice cover. May be used for jacket repair on cables up to 35 kV
- Heavy wall heat shrink is also available without sealant. Medium wall heat shrink and flame retardant heavy wall heat shrink also available, with or without sealant (not UL Listed)

## RATINGS

UL 486D Listed
CSA C22.2

**TEMPERATURE RATING:**
121-135 °C, 1000V.

**APPLICATION:**
Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.

**CONNECTORS UP TO 6 INCHES:**
Recomended cut length = Connector length + 4 inches.

**CONNECTORS OVER 6 INCHES:**
Recomended cut length = Connector length + 5 inches.

All dimensional data is listed in inches.

| CAT. NO. | SEALABLE WIRE RANGE |
|---|---|
| HWHS14-6-6 | 14-6 AWG |
| HWHS14-6-12 | 14-6 AWG |
| HWHS14-6-48 | 14-6 AWG |
| HWHS8-2-6 | 8-2 AWG |
| HWHS8-2-12 | 8-2 AWG |
| HWHS8-2-48 | 8-2 AWG |
| HWHS6-40-4 | 6-4/0 AWG |
| HWHS6-40-6 | 6-4/0 AWG |
| HWHS6-40-9 | 6-4/0 AWG |
| HWHS6-40-12 | 6-4/0 AWG |
| HWHS6-40-48 | 6-4/0 AWG |
| HWHS2-500-4 | 2 AWG - 500 MCM |
| HWHS2-500-6 | 2 AWG - 500 MCM |
| HWHS2-500-8 | 2 AWG - 500 MCM |
| HWHS2-500-9 | 2 AWG - 500 MCM |
| HWHS2-500-12 | 2 AWG - 500 MCM |
| HWHS2-500-48 | 2 AWG - 500 MCM |
| HWHS20-750-6 | 2/0 AWG - 750 MCM |
| HWHS20-750-9 | 2/0 AWG - 750 MCM |
| HWHS20-750-12 | 2/0 AWG - 750 MCM |
| HWHS20-750-48 | 2/0 AWG - 750 MCM |
| HWHS250-1000-6 | 250-1000 MCM |
| HWHS250-1000-9 | 250-1000 MCM |
| HWHS250-1000-12 | 250-1000 MCM |
| HWHS250-1000-48 | 250-1000 MCM |
| HWHS500-1500-9 | 500-1500 MCM |
| HWHS500-1500-12 | 500-1500 MCM |
| HWHS500-1500-48 | 500-1500 MCM |
| HWHS800-2000-12 | 800-2000 MCM |
| HWHS800-2000-48 | 800-2000 MCM |
| HWHS1500-2500-12 | 1500-2500 MCM |
| HWHS1500-2500-48 | 1500-2500 MCM |





| LENGTH | GENERAL USE RANGE | | MAX. CONNECTOR O.D. | MIN. SEAL LENGTH PER SIDE | STD. PKG. QTY. |
|---|---|---|---|---|---|
| | RECOVERED | EXPANDED | | | |
| 6 | 0.130 | 0.390 | 0.290 | 1.500 | 3 |
| 12 | 0.130 | 0.390 | 0.290 | 1.500 | 3 |
| 48 | 0.130 | 0.390 | 0.290 | 1.500 | 3 |
| 6 | 0.170 | 0.550 | 0.410 | 2.000 | 3 |
| 12 | 0.170 | 0.550 | 0.410 | 2.000 | 3 |
| 48 | 0.170 | 0.550 | 0.410 | 2.000 | 3 |
| 4 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 6 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 9 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 12 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 48 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 4 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 6 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 8 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 9 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 12 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 48 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 6 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |
| 9 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |
| 12 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |
| 48 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |
| 6 | 0.700 | 1.960 | 1.500 | 2.000 | 3 |
| 9 | 0.700 | 1.960 | 1.500 | 2.000 | 3 |
| 12 | 0.700 | 1.960 | 1.500 | 2.000 | 3 |
| 48 | 0.700 | 1.960 | 1.500 | 2.000 | 3 |
| 9 | 0.860 | 2.480 | 1.840 | 2.500 | 3 |
| 12 | 0.860 | 2.480 | 1.840 | 2.500 | 3 |
| 48 | 0.860 | 2.480 | 1.840 | 2.500 | 3 |
| 12 | 1.290 | 3.930 | - | 2.500 | 3 |
| 48 | 1.290 | 3.930 | - | 2.500 | 3 |
| 12 | 1.490 | 4.640 | - | 2.500 | 3 |
| 48 | 1.490 | 4.640 | - | 2.500 | 3 |

EASY-SPLICE™

# Thin-Wall Heat Shrink Kits

## THK SERIES



## FEATURES

- Kits have been carefully constructed to include the most common sizes and types in their category.
- Cases are made of extremely durable polypropylene and have heat sealed hinges.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.

All dimensional data is listed in inches.

| KIT CAT. NO. | KIT CONTENTS | | LENGTHS | STD. CTN. QTY. |
|---|---|---|---|---|
| | CAT. NO. | QTY. | | |
| THK | **TWHS-125-6** | 25 | 6 | 1 |
| | **TWHS-187-6** | 25 | | 1 |
| | **TWHS-250-6** | 20 | | 1 |
| | **TWHS-375-6** | 12 | | 1 |
| | **TWHS-500-6** | 7 | | 1 |
| | **TWHS-750-6** | 5 | | 1 |

EASY-SPLICE™

# Heavy Wall Heat Shrink Kits

## HHK SERIES





## FEATURES

- Kits have been carefully constructed to include the four most common sizes of heavy wall heat shrink 6" lengths.
- Sealant included.

## RATINGS

All dimensional data is listed in inches.

| KIT CAT. NO. | CAT. NO. | SEALABLE WIRE RANGE | LENGTH | GENERAL USE RANGE | | MAX. CONNECTOR O.D. | MIN. SEAL LENGTH PER SIDE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | | | RECOVERED | EXPANDED | | | |
| HHK | **HWHS 8-2-6** | 8-2 AWG | 6 | 0.170 | 0.550 | 0.410 | 2.000 | 9 |
| | **HWHS 6-40-6** | 6-4/0 AWG | 6 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| | **HWHS 2-500-6** | 2 AWG - 500 MCM | 6 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| | **HWHS 20-750-6** | 2/0 AWG - 750 MCM | 6 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |

EASY-SPLICE™

# Thin-Wall Tubing

## TWHS SERIES



## FEATURES

- Flexible flame-retardant, thin wall, general purpose heat-shrinkable polyolefin tubing has a 2:1 shrink ratio.
- Used for electrical insulation, wire harness bundling, wire jacket marking and color coding, it also splices and makes functional terminations.
- Standard packaging is either 6" lengths in blister boxes, or in economical 25' spools. Available in black.
- Black, white and colored thin wall tubing meet MIL-DTL-23053/5, Class 1.
- Clear meets MIL-DTL-23053/5, Class 2 and is not flame retardant.

## RATINGS

**TEMPERATURE RATING:**
125 °C.
600V Max.

| CAT. NO. |
|---|
| TWHS-046-6 |
| TWHS-046-48 |
| TWHS-063-6 |
| TWHS-063-48 |
| TWHS-063-25B |
| TWHS-093-6 |
| TWHS-093-48 |
| TWHS-093-25B |
| TWHS-125-6 |
| TWHS-125-48 |
| TWHS-125-25B |
| TWHS-187-6 |
| TWHS-187-48 |
| TWHS-187-25B |
| TWHS-187 |
| TWHS-250-6 |
| TWHS-250-48 |
| TWHS-250-25B |
| TWHS-250 |





| EXPANDED I.D. | RECOVERED I.D. | NOMIINAL RECOVERED WALL THICKNESS | LENGTH (IN/FT) | STD. PKG. QTY. |
|---|---|---|---|---|
| 0.046 | 0.230 | 0.016 | 6" | 15 |
| 0.046 | 0.230 | 0.016 | 48" | 1 |
| 0.063 | 0.031 | 0.017 | 6" | 15 |
| 0.063 | 0.031 | 0.017 | 48" | 1 |
| 0.063 | 0.031 | 0.017 | 25' Spool | 1 |
| 0.093 | 0.046 | 0.020 | 6" | 15 |
| 0.093 | 0.046 | 0.020 | 48" | 1 |
| 0.093 | 0.046 | 0.020 | 25' Spool | 1 |
| 0.125 | 0.062 | 0.020 | 6" | 15 |
| 0.125 | 0.062 | 0.020 | 48" | 1 |
| 0.125 | 0.062 | 0.020 | 25' Spool | 1 |
| 0.187 | 0.093 | 0.020 | 6" | 12 |
| 0.187 | 0.093 | 0.020 | 48" | 1 |
| 0.187 | 0.093 | 0.020 | 25' Spool | 1 |
| 0.187 | 0.093 | 0.020 | 1,000' Spool | 1 |
| 0.250 | 0.125 | 0.025 | 6" | 10 |
| 0.250 | 0.125 | 0.025 | 48" | 1 |
| 0.250 | 0.125 | 0.025 | 25' Spool | 1 |
| 0.250 | 0.125 | 0.025 | 500' Spool | 1 |

EASY-SPLICE™

# Thin-Wall Tubing

## TWHS SERIES CONT'D



## FEATURES

- Flexible flame-retardant, thin wall, general purpose heat-shrinkable polyolefin tubing has a 2:1 shrink ratio.
- Used for electrical insulation, wire harness bundling, wire jacket marking and color coding, it also splices and makes functional terminations.
- Standard packaging is either 6" lengths in blister boxes, or in economical 25' spools. Available in black.
- Black, white and thin wall tubing meet MIL-DTL-23053/5, Class 1.
- Clear meets MIL-DTL-23053/5, Class 2 and is not flame retardant.

## RATINGS

**TEMPERATURE RATING:**
125 °C.
600V Max.

| CAT. NO. |
|---|
| TWHS-312-6 |
| TWHS-312-48 |
| TWHS-312 |
| TWHS-375-6 |
| TWHS-375-48 |
| TWHS-375-25B |
| TWHS-375 |
| TWHS-500-6 |
| TWHS-500-48 |
| TWHS-500-25B |
| TWHS-500 |
| TWHS-750-6 |
| TWHS-750-48 |
| TWHS-750-25B |
| TWHS-750-25W |
| TWHS-750 |
| TWHS-1000-6 |
| TWHS-1000-48 |
| TWHS-1000-25B |
| TWHS-1000 |
| TWHS-1500-48 |
| TWHS-1500-25B |
| TWHS-2000-48 |
| TWHS-2000-25B |



| EXPANDED I.D. | RECOVERED I.D. | NOMIINAL RECOVERED WALL THICKNESS | LENGTH (IN/FT) | STD. CTN. QTY. |
|---|---|---|---|---|
| 0.312 | 0.156 | 0.025 | 6" | 10 |
| 0.312 | 0.156 | 0.025 | 48" | 1 |
| 0.312 | 0.156 | 0.025 | 200' Spool | 1 |
| 0.375 | 0.187 | 0.025 | 6" | 9 |
| 0.375 | 0.187 | 0.025 | 48" | 1 |
| 0.375 | 0.187 | 0.025 | 25' Spool | 1 |
| 0.375 | 0.187 | 0.025 | 200' Spool | 1 |
| 0.500 | 0.250 | 0.025 | 6" | 8 |
| 0.500 | 0.250 | 0.025 | 48" | 1 |
| 0.500 | 0.250 | 0.025 | 25' Spool | 1 |
| 0.500 | 0.250 | 0.025 | 200' Spool | 1 |
| 0.750 | 0.375 | 0.030 | 6' | 6 |
| 0.750 | 0.375 | 0.030 | 48' | 1 |
| 0.750 | 0.375 | 0.030 | 25' Spool | 1 |
| 0.750 | 0.375 | 0.030 | 25' Spool | 1 |
| 0.750 | 0.375 | 0.030 | 100' Spool | 1 |
| 1.000 | 0.500 | 0.035 | 6" | 4 |
| 1.000 | 0.500 | 0.035 | 48" | 1 |
| 1.000 | 0.500 | 0.035 | 25' Spool | 1 |
| 1.000 | 0.500 | 0.035 | 100' Spool | 1 |
| 1.500 | 0.750 | 0.040 | 48" | 1 |
| 1.500 | 0.750 | 0.040 | 25' Spool | 1 |
| 2.000 | 1.000 | 0.045 | 48" | 1 |
| 2.000 | 1.000 | 0.045 | 25' Spool | 1 |





# GROUNDING

GROUND CLAMPS

# Heavy Duty Direct Burial with Lay-in Lugs

GLC SERIES



## HEAVY DUTY DIRECT BURIAL W/LAY-IN

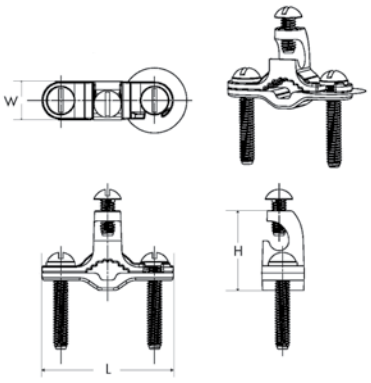
- The ultimate ground clamp for large ground wires.
- This incredible ground clamp can handle just about any size ground wire and just about any application.
- Lay-in feature provides for the ultimate in flexibility.
- Convenient and pre-assembled screws are 304 stainless steel.
- Available with silicon bronze screws by adding suffix -SB.

**APPLICATION:**

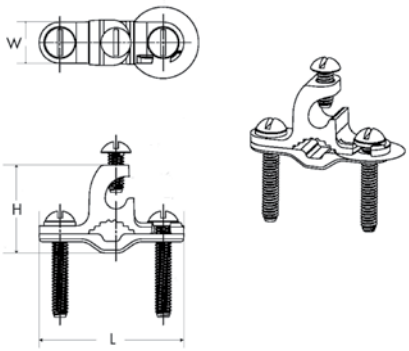
- UL Listed for direct burial in earth and concrete, it can be used with rebar, copper water pipe, copper tubing and ground rods up to 1 inch in diameter.
- cULus Listed 467 Grounding and Bonding.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | **6** |
|  |  |  |

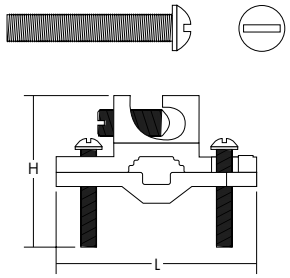
**GLC-12 RDB**




**GLC-12 DB**




**GLC-140 DB**




All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | REBAR SIZE | GROUND ROD SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **GLC-140DB** | 1 | 1/2-1 | 8 STR-4/0 STR | 3/8-1 | 1/2-1 | 2.551 | 0.784 | 2.132 | 10 |
| **GLC-12 DB** | 2 | 1/2-1 | #10-2 STR | 3/8-1 | 1/2-1 | 2.281 | 0.714 | 1.382 | 25 |
| **GLC-12 RDB** | 3 | 1/2-1 | #10-2 STR | 3/8-1 | 1/2-1 | 2.283 | 0.670 | 1.385 | 25 |
| **GLC-12 HDB** | 4 | 1/2-1 | #10-2 STR | 3/8-1 | 1/2-1 | 2.362 | 0.708 | 1.200 | 25 |
| **GLC-240DB** | 5 | 1 1/4-2 | #8-4/0 STR | - | - | 3.319 | 0.693 | 3.190 | 6 |
| **GLC-440DB** | 6 | 2 1/2-4 | #8-4/0 STR | - | - | 5.688 | 0.823 | 3.743 | 3 |

GROUND CLAMPS

# Copper & Tin Plated Copper Lay-in Lugs

GLC, GLA SERIES



## FEATURES

- Lay-in lugs are used for grounding or in continuous loop bonding and are available in several variations, depending on the application.

**GLC-4**

- Copper body with a steel screw and is used for general grounding applications with copper wire.

**GLC-4 DB/GLC-4 DBP**

- Copper bodies with stainless steel screws, are UL Listed for direct burial in earth or concrete with copper wire.
- cULus Listed 467 Grounding and Bonding.

**DUAL RATED LAY-IN LUGS**

- Lay-in connectors offer the ultimate in flexibility.
- Excellent for grounding and continuous loop applications.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.




## RATINGS

c UL us LISTED GROUNDING BONDING

UL467 Listed.

**TEMPERATURE RATING:**
*Dual Rated Lay-In: 90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | MATERIAL | WIRE RANGE | USE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **GLC-4** | 1 | Copper with steel screws | 4 -14 AWG | General use for CU wire only | 1.312 | 0.396 | 0.908 | 100 |
| **GLC-4 DB** | 1 | Copper with stainless steel screws | 4 -14 AWG | Direct burial for CU wire only | 1.312 | 0.396 | 0.908 | 100 |
| **GLC-4 DBP** | 2 | Tin-plated copper with stainless steel screws | 4 -14 AWG | Direct burial for CU wire only | 1.312 | 0.396 | 0.908 | 100 |
| **GLA-4*** | 3 | Tin-plated aluminum with stainless steel screws | 4-14 AWG | Direct burial for CU wire only | 1.070 | 0.380 | 0.750 | 100 |
| **GLA-0*** | 3 | Tin-plated aluminum with steel screws | 1/0-8 AWG | General use for AL/CU wire | 1.500 | 0.600 | 1.100 | 40 |
| **GLA-000*** | 3 | Tin-plated aluminum with steel screws | 3/0-6 AWG | General use for AL/CU wire | 2.000 | 0.800 | 1.500 | 20 |
| **GLA-250*** | 4 | Tin-plated aluminum with steel screws | 250 MCM-6 AWG | General use for AL/CU wire | 2.200 | 0.800 | 1.700 | 20 |

GROUND CLAMPS

# Heavy Duty Direct Burial Ground Clamps, Direct Burial for Rebar

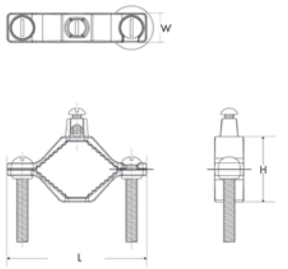
G-S-DB, G-S-BS SERIES



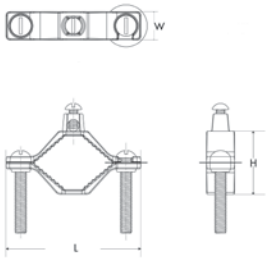
## HEAVY DUTY DIRECT BURIAL

- UL Listed for direct burial in earth or concrete.
- Screws are 304 stainless steel.
- cULus Listed 467 Grounding and Bonding.

**G-1-S DB**




**G-2-SDB**




All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE BOLT SIZE | GROUND CLAMP BOLT SIZE | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-1-S DB*** | 1/2-1 | 1/4"-20 x 1/2" | 1/4"-20 x 1.50" | 10 SOL – 2 STR | 2.280 | 0.650 | 1.400 | 20 |
| **G-2-SDB*** | 1 1/4-2 | 1/4"-20 x 1/2" | 5/16"-18 x 2" | 10 SOL – 2 STR | 3.600 | 0.750 | 1.690 | 10 |

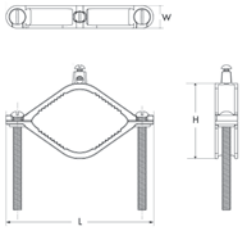
*Available with silicon bronze screws by adding suffix of -SB.

## DIRECT BURIAL FOR REBAR

- Used to connect bare copper wire to copper water pipe, ground rods and rebar for bonding.
- Assembled with copper alloy screws and UL Listed for direct burial in earth and concrete.
- Can accommodate ground wires up to 2 AWG.
- cULus Listed 467 Grounding and Bonding.



**G-4-S BS**




All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | REBAR SIZE | GROUND WIRE RANGE | GROUND WIRE BOLT SIZE | GROUND CLAMP BOLT SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **G-4-S BS** | 2 1/2-4 | 3/8 - 1 | 10 SOL-2 STR | 1/4-20 x 1/2" | 3/8-16 x 4" | 6.350 | 0.970 | 3.750 | 6 |

GROUND CLAMPS

# Heavy Duty Direct Burial & with Adapters

G & G-DB SERIES





## EXTRA HEAVY DUTY DIRECT BURIAL

- This incredible ground clamp can handle just about any size ground wire and just about any application.
- UL Listed for direct burial in earth and concrete, be used with rebar, copper water pipe, copper tubing and ground rods up to 1 inch in diameter.
- Assembled with tough 304 stainless steel screws.
- Will accommodate ground wires from 8 AWG to 4/0 AWG.
- cULus Listed 467 Grounding and Bonding.

All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | REBAR SIZE | GROUND ROD SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-140DB** | 1 | 8 STR-4/0 STR | 3/8-1 | 1/2-1 | 2.362 | 0.669 | 1.761 | 10 |

*Available with silicon bronze screws by adding suffix of -SB.

## DIRECT BURIAL WITH WIRE ADAPTERS

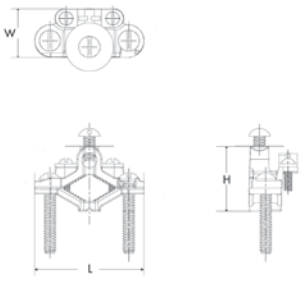


- For connecting wire to copper water pipe for grounding.
- Special pressure bar grips cable armor to lessen chances of grounding conductor being pulled out.
- Assembled with silicon bronze screws.
- UL Listed 467 Grounding and Bonding.

**APPLICATION:**

- UL Listed for direct burial in earth or concrete.

**G-20 DB**




All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | GROUND WIRE BOLT SIZE | GROUND CLAMP BOLT SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-20 DB** | 1/2 - 1 | 4,6,8 STR | 1/4 - 20 x 1/2 | 1/4 - 20 x 1 1/2 | 2.250 | 1.000 | 1.350 | 20 |

GROUND CLAMPS

# Heavy Duty Direct Burial/ with Adapters & Rebar Ground Clamps

G-S DBR, G-BS, J-SB & RC SERIES



## HEAVY DUTY BRONZE GROUND CLAMP

- Bronze ground clamp for bonding bare copper wire to copper water pipe.
- Assembled with tough 304 stainless steel screws.
- Available with silicon bronze screws by adding suffix -SB.
- cULus Listed 467 Grounding and Bonding.

All dimensional data is listed in inches.

| CAT. NO. | GROUND WIRE RANGE | PIPE SIZE (IPS) | REBAR SIZE | GROUND ROD SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-1-S DBR** | 10 SOL - 2 STR | 1/2-1 | 3/8 - 1 | 3/8-1 | 2.280 | 0.650 | 1.400 | 20 |

## HD GROUND CLAMP WITH ADAPTER AND BRASS SCREWS



- Bronze clamps for copper water pipes with bronze adapters.
- Assembled with brass screws.

All dimensional data is listed in inches.

| CAT. NO. | GROUND WIRE RANGE | PIPE SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **G-3 BS** | 8-4/0 STR | 1/2-1 | 2.320 | 0.748 | 1.437 | 20 |

## REBAR GROUND CLAMPS

**Features**
- Lay-in style clamp allows for continuous loop wiring.
- Cast silicon bronze connector & Stainless steel hardware.

**Application**
- For use with copper wire only.
- Harsh direct bury environments & Pool and Spa.
- Any commercial, industrial, maintenance application where ground wire needs to be connected to rebar.

**Ratings**
- cULus Listed UL467 Grounding & Bonding Equipment & Direct Bury.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

*UL Listed for #4 STR - #2 STR.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | GROUND WIRE RANGE | REBAR SIZE (IN) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **RC38** | 1 | 8-6 SOL | 0.375 | 1.14 | 0.74 | 0.75 | 25 |
| **RC50** | 2 | 8 SOL - 4 STR | 0.500 | 1.35 | 0.83 | 0.91 | 25 |
| **RC58*** | 3 | 6 SOL - 2/0 STR | 0.625 | 1.62 | 0.80 | 1.06 | 25 |

GROUND CLAMPS

# Bronze Ground Clamps & Heavy Duty Water Pipe Clamps

G-S & G SERIES

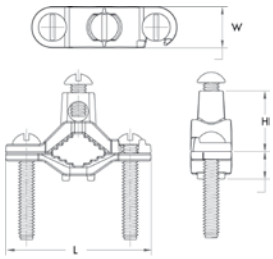




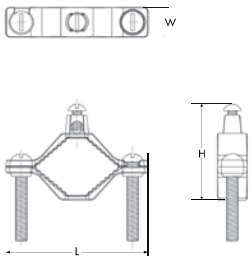
## BRONZE GROUND CLAMPS

- Bronze ground clamp for bonding bare copper wire to water pipe or for use as a water meter shunt.
- Zinc plated steel screws.

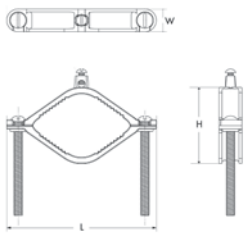
**G-1-S**



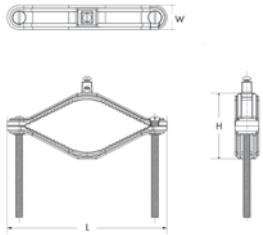

**G-2-S**




**G-4-S**




**G-6-S**




All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **G-1-S*** | 1/2-1 | 10 SOL– 2 STR | 2.280 | 0.650 | 1.400 | 20 |
| **G-2-S*** | 1 1/4-2 | 10 SOL– 2 STR | 3.600 | 0.750 | 1.690 | 10 |
| **G-4-S** | 2 1/2-4 | 10 SOL– 2 STR | 6.350 | 0.970 | 3.750 | 6 |
| **G-6-S** | 4 1/2-6 | 10 SOL– 2 STR | 8.300 | 1.250 | 4.000 | 3 |

*Also cULus listed.

## HEAVY DUTY WATER PIPE CLAMPS

- Bronze water pipe clamps with serrated head.
- Cast bronze body with plated steel screws.
- Designed for use alone or with heavy duty bronze adapters.



All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **G-1** | 1/2-1 | 10 SOL-2 STR | 2.200 | 0.748 | 1.437 | 25 |
| **G-2** | 1 1/4-2 | 10 SOL-2 STR | 3.500 | 0.847 | 2.180 | 15 |
| **G-12** | 2 1/2-4 | 10 SOL-2 STR | 6.250 | 0.943 | 3.674 | 6 |
| **G-13** | 4 1/2-6 | 10 SOL-2 STR | 7.916 | 0.933 | 4.165 | 4 |

# Aluminum & Bronze Ground Clamps

GCA & G SERIES



## ALUMINUM GROUND CLAMPS

- Dual-rated ground clamp that grounds aluminum or copper to water pipe, galvanized pipe or steel conduit.
- Constructed from high-strength, extruded aluminum alloy and are plated to provide low-contact resistance.
- cULus Listed 467 Grounding and Bonding.
- Zinc plated steel screws.

All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **GCA-1** | 1/2-1 | 1/0-14 AWG | 2.260 | 0.685 | 1.670 | 25 |
| **GCA-2** | 1 1/4-2 | 250 MCM-6 AWG | 3.760 | 0.828 | 2.930 | 10 |
| **GCA-4** | 2 1/2-4 | 250 MCM-6 AWG | 6.125 | 0.996 | 4.630 | 3 |

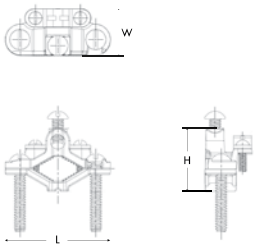


## BRONZE GROUND CLAMP WITH WIRE ADAPTERS

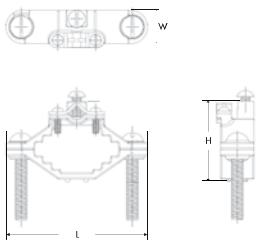
LISTED

- For connecting unarmored wire to water pipe for grounding.
- Special pressure bar grips cable to lessen chances of grounding conductor being pulled out.
- Assembled with zinc-plated steel screws.

**G-20**




**G-66**



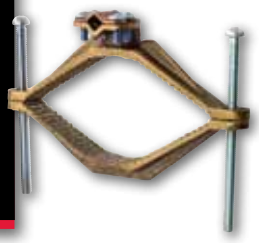

All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE BOLT SIZE | GROUND CLAMP BOLT SIZE | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-20** | 1/2-1 | 1/4 - 20 x 1/2 | 1/4 - 20 x 1 1/2 | 4,6,8 STR | 2.250 | 1.000 | 1.350 | 20 |
| **G-66** | 1 1/4-2 | 1/4 - 20 x 1/2 | 5/16 -18 x 2 | 4,6,8 STR | 3.580 | 0.850 | 2.040 | 10 |

GROUND CLAMPS

# Heavy Duty & with 360° Adapters for Rigid Conduit

G SERIES





## HEAVY DUTY BRONZE

UL LISTED

- Heavy duty bronze adapters have serrations that match the serrations on the ground clamp, assuring positive lock.
- All adapters fit all clamps for the ultimate flexibility.
- Assembled with zinc plated steel hardware.
- Used to connect grounding conductor to rigid conduit on water pipe.
- UL Listed 467 Grounding and Bonding.

All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **G-3** | 1/2-1 | 8-4/0 STR | 2.320 | 0.748 | 1.437 | 20 |
| **G-4** | 1 1/4-2 | 8-4/0 STR | 3.528 | 0.850 | 2.706 | 10 |
| **G-15** | 2 1/2-4 | 8-4/0 STR | 6.125 | 0.964 | 3.962 | 6 |
| **G-16** | 4 1/2-6 | 8-4/0 STR | 7.916 | 0.933 | 4.565 | 3 |

## FOR RIGID CONDUIT

c UL us SA



- Used to connect grounding conductor to rigid conduit on water pipe.

All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **G-5** | 1/2 | 1/2 - 1 | 10 SOL – 2/0 STR | 2.200 | 0.748 | 2.437 | 15 |
| **G-6** | 1/2 | 1 1/4 - 2 | 10 SOL – 2/0 STR | 3.667 | 0.791 | 3.195 | 10 |
| **G-18** | 1/2 | 2 1/2 - 4 | 10 SOL – 2/0 STR | 6.125 | 0.961 | 4.812 | 6 |
| **G-19** | 1/2 | 4 1/2 - 6 | 10 SOL – 2/0 STR | 8.125 | 1.263 | 4.740 | 3 |
| **G-7** | 3/4 | 1/2 - 1 | 10 SOL – 3/0 STR | 2.200 | 0.748 | 1.437 | 15 |
| **G-8** | 3/4 | 1 1/4 - 2 | 10 SOL – 3/0 STR | 3.616 | 0.791 | 3.298 | 8 |
| **G-21** | 3/4 | 2 1/2 - 4 | 10 SOL – 3/0 STR | 6.125 | 0.961 | 4.943 | 6 |
| **G-22** | 3/4 | 4 1/2 - 6 | 10 SOL – 3/0 STR | 8.227 | 1.244 | 5.050 | 3 |
| **G-9** | 1 | 1/2 - 1 | 10 SOL – 3/0 STR | 2.315 | 0.747 | 3.159 | 12 |
| **G-10** | 1 | 1 1/4 - 2 | 10 SOL – 3/0 STR | 3.616 | 0.816 | 3.561 | 8 |
| **G-24** | 1 | 2 1/2 - 4 | 10 SOL – 3/0 STR | 6.125 | 0.940 | 5.191 | 6 |
| **G-25** | 1 | 4 1/2 - 6 | 10 SOL – 3/0 STR | 8.225 | 1.260 | 5.245 | 3 |

GROUND CLAMPS

# Heavy Duty with 360° Adapters for Rigid Conduit

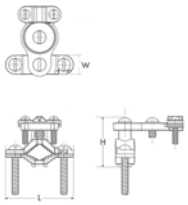
EG SERIES



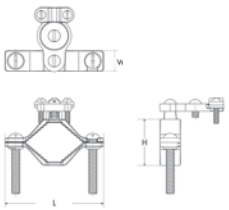
## WITH 360° ADAPTERS FOR RIGID CONDUIT

- Bronze water pipe clamps with bronze adapters.
- Excellent quality yet economical.
- All adapters are interchangeable.
- Assembled with zinc-plated steel screws.
- Hub swings 360° for easy alignment.
- Used to connect rigid conduct and ground conductor to water pipe.
- UL Listed 467 Grounding and Bonding.

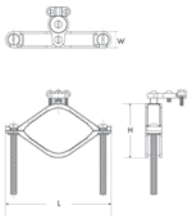
**EG-3**



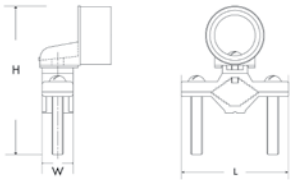
**EG-4**



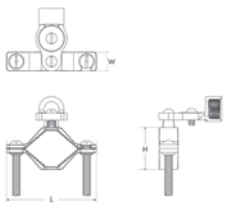
**EG-15**



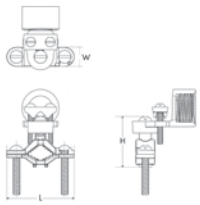
**EG-5**



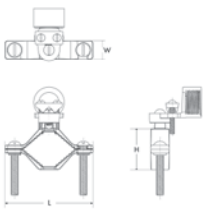
**EG-6**



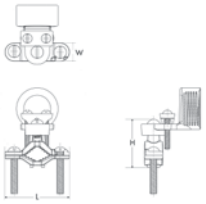
**EG-7**



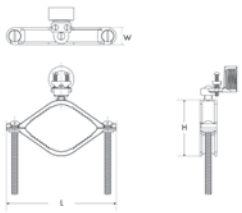
**EG-8**



**EG-9**



**EG-24**



All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **EG-3** | 1/2 | 1/2 - 1 | 10 SOL – 2/0 STR | 2.200 | 0.585 | 2.300 | 20 |
| **EG-4** | 1/2 | 1 1/4 - 2 | 10 SOL – 2/0 STR | 3.588 | 0.737 | 3.117 | 10 |
| **EG-15** | 1/2 | 2 1/2 - 4 | 10 SOL – 2/0 STR | 6.125 | 0.972 | 4.834 | 6 |
| **EG-5** | 1/2 | 1/2 - 1 | 10 SOL – 2/0 STR | 2.208 | 0.597 | 2.210 | 15 |
| **EG-6** | 1/2 | 1 1/4 - 2 | 10 SOL – 2/0 STR | 3.631 | 0.725 | 2.696 | 10 |
| **EG-7** | 3/4 | 1/2 - 1 | 10 SOL – 2/0 STR | 2.298 | 0.663 | 2.470 | 15 |
| **EG-8** | 3/4 | 1 1/4 - 2 | 10 SOL – 2/0 STR | 3.576 | 0.789 | 3.841 | 8 |
| **EG-9** | 1 | 1/2 - 1 | 10 SOL – 3/0 STR | 2.280 | 0.650 | 1.900 | 12 |
| **EG-10** | 1 | 1 1/4 - 2 | 10 SOL – 3/0 STR | 3.587 | 0.792 | 4.029 | 8 |
| **EG-24** | 1 | 2 1/2 - 4 | 10 SOL – 3/0 STR | 6.125 | 0.962 | 5.158 | 6 |

GROUND CLAMPS

# Rigid Conduit w/Flexible Wire Strap

G SERIES

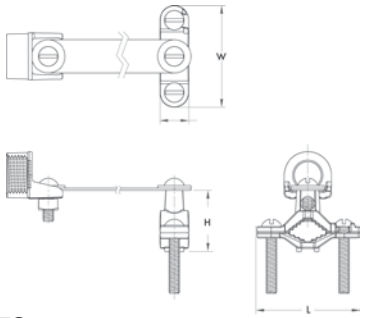




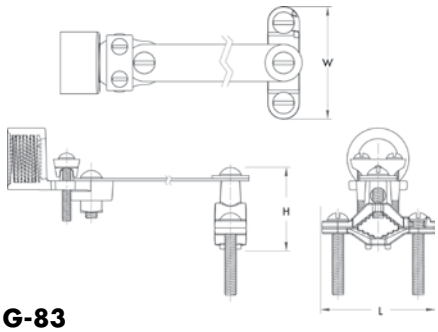
## FEATURES

- For connecting the grounding conductor in rigid conduit to water pipe.
- Copper strap allows flexibility during grounding and helps protect the conduit system from the results of vibrations in the water system.
- Assembled with zinc-plated steel screws.

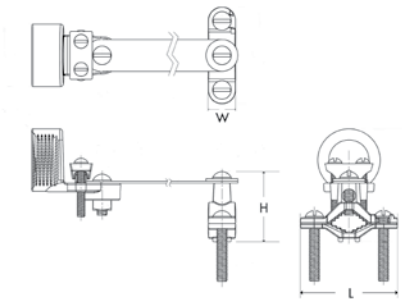
**G-90**




**G-79**




**G-83**




## RATINGS

c UL us SA

UL Listed 467 Grounding & Bonding.

All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | PIPE SIZE (IPS) | GROUND WIRE RANGE | STD. CTN. QTY. |
|---|---|---|---|---|
| **G-90** | 1/2 | 1/2 - 1 | 10 SOL – 2/0 STR | 15 |
| **G-79** | 3/4 | 1/2 - 1 | 10 SOL – 2/0 STR | 12 |
| **G-83** | 1 | 1/2 - 1 | 10 SOL – 3/0 STR | 12 |

GROUND CLAMPS

# Economy and 360° Swing Type Hubs

GH, GHM SERIES



## ECONOMY 360° HUB FOR GROUND CLAMPS

- Threaded hub cast of high-strength, highly conductive bronze.
- Used with ground clamp to ground conductor to water pipe.

All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | GROUND WIRE RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **GH-50** | 1/2 | 10 SOL – 4 STR | 50 |
| **GH-75** | 3/4 | 10 SOL – 2/0 STR | 25 |
| **GH-100** | 1 | 10 SOL – 3/0 STR | 15 |

## 360° SWING TYPE



- Threaded hub cast of high-strength, highly conductive bronze.
- Used with ground cLamp with serrated hub to ground conductor to water pipe.
- Allows entry from any direction.
- Zinc plated steel screws.

All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | GROUND WIRE RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **GHM-50** | 1/2 | 10 SOL – 2/0 STR | 50 |
| **GHM-75** | 3/4 | 10 SOL – 2/0 STR | 75 |
| **GHM-100** | 1 | 10 SOL – 3/0 STR | 15 |

GROUND CLAMPS

# Zinc Die Cast and Standard Duty Silicon Bronze Ground Clamp

GZ, GRC SERIES

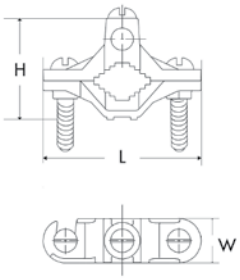




## ZINC DIE-CAST GROUND CLAMPS

- Die cast from high-strength zinc alloy.
- Used to connect bare copper wire for grounding.
- Zinc plated steel screws.
- GZB-1 is brass plated.

**GZ-1**




All dimensional data is listed in inches.

| CAT. NO. | CONDUIT SIZE | GROUND WIRE RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **GZ-1** | 1/2 - 1 | 2 - 10 | 20 |
| **GZB-1*** | 1/2 - 1 | 2 - 10 | 20 |

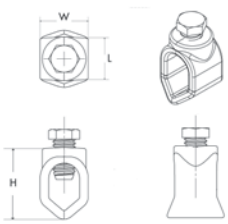
*Not UL Listed.

## STANDARD DUTY SILICON BRONZE

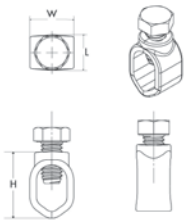
- Ground rod clamps are made from silicon bronze with 304 stainless steel screws for maximum strenght.
- All standard duty and heavy duty ground clamps are UL Listed for direct burial in earth or concrete.
- cULus Listed 467 Grounding and Bonding.



**GRC-38**




**GRC-50**




**GRC-58**




**GRC-34**




All dimensional data is listed in inches.

| CAT. NO. | GROUND ROD SIZE | REBAR SIZE | GROUND WIRE MAXIMUM | STD. CTN. QTY. |
|---|---|---|---|---|
| **GRC 38*(**)** | 3/8 | - | 10 SOL – 4 STR | 50 |
| **GRC 50**** | 1/2 | 3/8 | 10 SOL – 2 STR | 25 |
| **GRC 58**** | 5/8 | 1/2 | 10 SOL – 2 STR | 25 |
| **GRC 34**** | 3/4 | 5/8 | 10 SOL – 1 STR | 20 |

*Not UL Listed/ **Available with silicon bronze screws by adding suffix of -SB.

GROUND CLAMPS

# Heavy Duty Silicon Bronze & Range Taking Rod Clamp

GRC SERIES



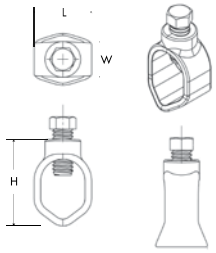
## HEAVY DUTY SILICON BRONZE

- Ground rod clamps are made from silicon bronze for maximum strength.
- A silicon bronze screw furnishes maximum clamping force.
- All standard duty and heavy duty ground clamps are UL Listed for direct burial in earth or concrete.

**GRC-58H**




**GRC-34H**




All dimensional data is listed in inches.

| CAT. NO. | GROUND ROD SIZE | GROUND WIRE MAXIMUM | STD. CTN. QTY. |
|---|---|---|---|
| **GRC-50H*** | 1/2 | 10 SOL – 2 STR | 25 |
| **GRC-58H*** | 5/8 | 10 SOL – 1/0 STR | 20 |
| **GRC-34H*** | 3/4 | 8 SOL – 1/0 STR | 20 |
| **GRC-100H*** | 1 | 8 SOL – 4/0 STR | 10 |

*Available with silicon bronze screws by adding suffix -SB.

## RANGE TAKING ROD CLAMP



- This heavy duty ground rod clamp replaces all existing ground rod clamps, eliminating the need to stock several different sizes and types.
- UL listed for direct burial in earth and concrete, heavy duty construction enables it to handle large ground wires up to 1/0 AWG – much larger than a standard ground rod clamp.
- Suitable for 3/8", 1/2", 5/8", 3/4" ground rods.

All dimensional data is listed in inches.

| CAT. NO. | GROUND WIRE RANGE | GROUND ROD SIZE | REBAR SIZE | SCREW MATERIAL | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **GRC-3834*** | 10 SOL – 1/0 STR | 3/8, 1/2, 5/8, 3/4 | 3/8, 1/2, 5/8 | silicon bronze | 25 |

*Available with silicon bronze screws by adding suffix -SB.

GROUNDING CONNECTORS

# Intersystem Bonding Connectors

GBIAL, GBIBZ SERIES





## FEATURES

- Convenient lay-in feature for main grounding conductor, accommodates #2 to #6 AWG.
- Lay-In feature eliminates the need to cut or splice to main electrode.
- Lay-In feature eliminates disassembling ground to rod connection.
- UL Listed 467 Grounding.
- Optional UV Resistant paintable cover for more desirable appearance.
- For indoor and outdoor use.
- Compact size measures 1.4"H x 1.19"W x 3.93"L.

**GBIAL:**

- Supplied with stainless steel screws to prevent corrosion.
- Dual rated for copper or aluminum conductor.

**GBIBZ**

- Assembled with Zinc plated steel screws. Rated for copper conductor only.

## APPLICATIONS

- Connector for intersystem bonding of power and communication (phone, cable, and satellite) grounding systems.
- Meets or exceeds requirements set forth in NEC2008 250.94 Bonding of other systems facilitates a fast and simple connection to ground conductor below the meter.

| 1 | 2 |
|---|---|
|  |  |
| GBIAL | GBIBZ |

c UL us

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | MATERIAL | DESCRIPTION | WIRE RANGE | NO. OF CIRCUITS | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **GBIAL 126-4414-WC** | 1 | Aluminum | With cover | (1) 2-6, (4) 4-14 | 4 | 1 |
| **GBIAL 126-4414** | 1 | Aluminum | Cover not included | (1) 2-6, (4) 4-14 | 4 | 1 |
| **GBIBZ 126-4414-WC** | 2 | Bronze | With cover | (1) 2-6, (4) 4-14 | 4 | 1 |
| **GBIBZ 126-4414** | 2 | Bronze | Cover not included | (1) 2-6, (4) 4-14 | 4 | 1 |

# Isolated Ground Bars

## GBA, GBC SERIES



## FEATURES

- Made from either high-strength aluminum alloy 6061-T6 or high-conductivity copper as indicated below.
- The base is made from high-strength glass-filled polyester.
- Aluminum connectors are dual-rated for use with aluminum or copper cables.

| 1 | 2 |
|---|---|
|  |  |
| Aluminum and copper | Copper only |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | MATERIAL | WIRE RANGE | NO. OF CIRCUITS | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **GBA2-7** | 1 | Aluminum | AL/CU 2 - 14 | 7 | 2.88 | 2.31 | 1.88 | 3 |
| **GBC2-7** | 2 | Copper | CU 2 - 14 | 7 | 2.88 | 2.31 | 1.75 | 3 |
| **GBA2-10** | 1 | Aluminum | AL/CU 2 - 14 | 10 | 4.07 | 2.31 | 1.88 | 3 |
| **GBC2-10** | 2 | Copper | CU 2 - 14 | 10 | 4.07 | 2.31 | 1.75 | 3 |
| **GBA2-14** | 1 | Aluminum | AL/CU 2- 14 | 14 | 5.56 | 2.31 | 1.88 | 2 |
| **GBC2-14** | 2 | Copper | CU 2 - 14 | 14 | 5.56 | 2.31 | 1.75 | 2 |
| **GBA2-20** | 1 | Aluminum | AL/CU 2- 14 | 20 | 8.04 | 2.31 | 1.88 | 2 |
| **GBC2-20** | 2 | Copper | CU 2 - 14 | 20 | 8.04 | 2.31 | 1.75 | 2 |
| **GBA20-7** | 1 | Aluminum | AL/CU 2/0 - 14 | 7 | 4.61 | 2.31 | 2.13 | 3 |
| **GBA20-10** | 1 | Aluminum | AL/CU 2/0 - 14 | 10 | 6.41 | 2.31 | 2.13 | 3 |
| **GBA20-14** | 1 | Aluminum | CL/CU 2/0 - 14 | 14 | 8.81 | 2.31 | 2.13 | 2 |

GROUNDING CONNECTORS

# Heavy Duty for Parallel, 90° Copper Cable

UC SERIES





## FEATURES

- Made of high-copper-content alloy for grounding to ½" - 1" ground rods and ground pipes from ¼" - 3½" in parallel or 90° position.
- Suitable for direct burial in earth and concrete.
- Nuts and lockwashers are silicon bronze.
- For use with single wire.

## RATINGS

cULus
UL Listed 467 Grounding & Bonding.

All dimensional data is listed in inches.

| CAT. NO. | ROD SIZE | PIPE SIZE | CABLE RANGE | STD. CTN. QTY. |
|---|---|---|---|---|
| **UC-101** | 1/2 | 1/4 | 2/0 - 4 | 12 |
| **UC-102*** | 1/2 | 1/4 | 250-2/0 | 12 |
| **UC-103** | 5/8 - 3/4 | 3/8 | 4 - 8 | 12 |
| **UC-104** | 5/8 - 3/4 | 3/8 | 2/0 - 4 | 12 |
| **UC-105** | 5/8 - 3/4 | 3/8 | 250 - 2/0 | 12 |
| **UC-108** | 7/8 - 1 | 1/2 - 3/4 | 2/0 - 4 | 12 |
| **UC-109** | 7/8 - 1 | 1/2 - 3/4 | 250 - 2/0 | 12 |
| **UC-110*** | 7/8 - 1 | 1/2 - 3/4 | 300-500 | 12 |
| **UC-114** | – | 1 | 2/0 - 4 | 6 |
| **UC-115** | – | 1 | 250 - 2/0 | 12 |
| **UC-120** | – | 1 1/4 | 2/0 - 4 | 12 |
| **UC-121** | – | 1 1/4 | 250 - 2/0 | 12 |
| **UC-126** | – | 1 1/2 | 2/0 - 4 | 12 |
| **UC-127** | – | 1 1/2 | 250 - 2/0 | 12 |
| **UC-132** | – | 2 | 2/0 - 4 | 12 |
| **UC-133** | – | 2 | 250 - 2/0 | 6 |
| **UC-137** | – | 2 1/2 | 2/0 - 4 | 6 |
| **UC-138** | – | 2 1/2 | 250 - 2/0 | 6 |
| **UC-142** | – | 3 | 2/0 - 4 | 6 |
| **UC-143** | – | 3 | 250 - 2/0 | 6 |
| **UC-147** | – | 3 1/2 | 2/0 - 4 | 3 |
| **UC-148*** | – | 3 1/2 | 250 - 2/0 | 3 |

*Not UL Listed

GROUNDING CONNECTORS

# Heavy Duty for Parallel, Two & Three Conductor

UC SERIES



## FEATURES

- Made of high-copper-content alloy for grounding to ½" - 1" ground rods and ground pipes from ¼" - 3½" in parallel or 90° position.
- Suitable for direct burial in earth and concrete.
- Nuts and lockwashers are silicon bronze.
- 200 Series for use with two wires.
- 300 Series for use with three wires.

| 1 | 2 |
|---|---|
|  |  |

## RATINGS

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | PIPE SIZE | CABLE RANGE | STD. CTN. QTY. |
|---|---|---|---|---|
| **UC-214** | 1 | 1 | 2/0 - 4 | 6 |
| **UC-215** | 1 | 1 | 250 - 2/0 | 6 |
| **UC-220** | 1 | 1 1/4 | 2/0 - 4 | 6 |
| **UC-221** | 1 | 1 1/4 | 250 - 2/0 | 6 |
| **UC-226** | 1 | 1 1/2 | 2/0 - 4 | 6 |
| **UC-227** | 1 | 1 1/2 | 250 - 2/0 | 6 |
| **UC-232** | 1 | 2 | 2/0 - 4 | 6 |
| **UC-233** | 1 | 2 | 250 - 2/0 | 3 |
| **UC-237** | 1 | 2 1/2 | 2/0 - 4 | 3 |
| **UC-238** | 1 | 2 1/2 | 250 - 2/0 | 3 |
| **UC-242** | 1 | 3 | 2/0 - 4 | 3 |
| **UC-243** | 1 | 3 | 250 - 2/0 | 3 |
| **UC-315** | 2 | 1 | 250 - 2/0 | 6 |
| **UC-320** | 2 | 1 1/4 | 2/0 - 4 | 6 |
| **UC-326** | 2 | 1 1/2 | 2/0 - 4 | 6 |
| **UC-327** | 2 | 1 1/2 | 250 - 2/0 | 6 |
| **UC-332** | 2 | 2 | 2/0 - 4 | 6 |
| **UC-333** | 2 | 2 | 250 - 2/0 | 3 |
| **UC-338** | 2 | 2 1/2 | 250 - 2/0 | 3 |
| **UC-342** | 2 | 3 | 2/0 - 4 | 3 |
| **UC-343** | 2 | 3 | 250 - 2/0 | 3 |

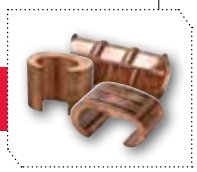
# GROUNDING CONNECTORS
# "C" Taps



## C-TAPS ORDER INFO

**Find them in the Connectors Section**

PAGES 103-104



## CT SERIES



- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.

c UL us SA

## CTH SERIES



- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.

c UL us SA

## CTH SERIES



- Range-taking compression connectors made from high conductivity copper alloy.
- Ideal for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors.
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation. Installation time is reduced because of its "C" shape.

c UL us SA

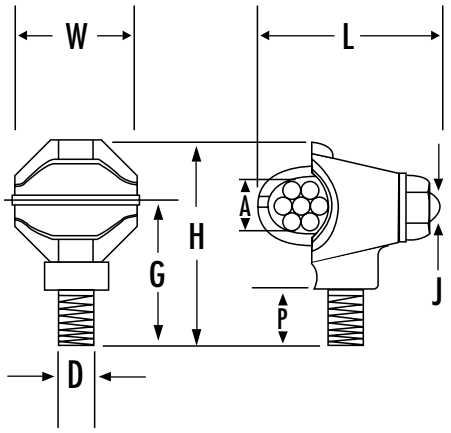
# Transformer Ground Clamps

## TGE SERIES



## FEATURES

- Cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts.
- Stainless steel nuts and lockwashers are standard on all clamps.
- The TGE may be tightened by using a wrench on the body.




All dimensional data is listed in inches.

| CAT. NO. | COPPER CONDUCTOR RANGE (A) | FINISH | WIRE DIA. | STUD SIZE (D) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **TGE-1** | 10 SOL - 1 STR | Plain | .102/.332 | 1/2 - 13 | 1.450 | 0.932 | 1.701 | 50 |
| **TGE-2/0** | 8 SOL -2/0 STR | Plain | .128/.419 | 1/2 - 13 | 1.782 | 1.225 | 2.208 | 15 |
| **TGE-250** | 6 SOL - 250MCM | Plain | .162/.575 | 1/2 - 13 | 2.760 | 1.863 | 2.569 | 10 |
| **TGE-1TN** | 10 SOL - 1 STR | Tin Plated | .102/.332 | 1/2 - 13 | 1.450 | 0.932 | 1.701 | 50 |
| **TGE-2/0TN** | 8 SOL -2/0 STR | Tin Plated | .128/.419 | 1/2 - 13 | 1.782 | 1.225 | 2.208 | 15 |
| **TGE-250TN** | 6 SOL - 250MCM | Tin Plated | .162/.575 | 1/2 - 13 | 2.760 | 1.863 | 2.569 | 10 |

GROUNDING CONNECTORS

# Two-Way Baskets

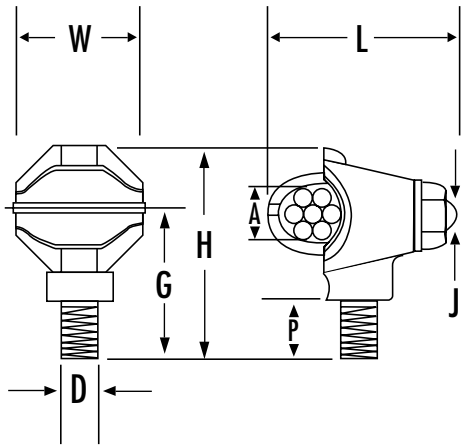
## HTGE SERIES





## FEATURES

- Cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts.
- Stainless steel nuts and lockwashers are standard on all clamps.
- The HTGE provides a hex or square shoulder for wrench tightening.
- The flat surface also acts as a seal to the tank.




All dimensional data is listed in inches.

| CAT. NO. | COPPER CONDUCTOR RANGE (A) | FINISH | WIRE DIA. | STUD SIZE (D) | APPROX DIMENSIONS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | G | | H | | J | L | | P | | W | |
| | | | | | IN | MM | IN | MM | (EYEBOLT) IN | IN | MM | IN | MM | IN | MM |
| **HTGE-1** | 10 SOL - 1 STR | Plain | .102/.332 | 1/2 - 13 | 1 - 3/16 | 30 | 1- 3/4 | 44 | 3/8 -16 | 1- 31/32 | 50 | 7/16 | 11 | 1- 1/8 | 28 |
| **HTGE-2/0** | 8 SOL -2/0 STR | Plain | .128/.419 | 1/2 - 13 | 1 - 5/16 | 33 | 1- 15/16 | 49 | 3/8-16 | 2 | 51 | 7/16 | 11 | 1- 1/4 | 32 |
| **HTGE-250** | 6 SOL - 250MCM | Plain | .162/.575 | 1/2 - 13 | 1 - 3/16 | 30 | 2- 1/8 | 54 | 1/2 -13 | 2- 5/8 | 67 | 15/32 | 12 | 1- 7/8 | 48 |
| **HTGE-2/0TN** | 8 SOL -2/0 STR | Tin Plated | .128/.419 | 1/2 - 13 | 1 - 5/16 | 33 | 1- 15/16 | 49 | 3/8 -16 | 2 | 51 | 7/16 | 11 | 1- 1/4 | 32 |
| **HTGE-250TN** | 6 SOL - 250MCM | Tin Plated | .162/.575 | 1/2 - 13 | 1 - 3/16 | 30 | 2- 1/8 | 54 | 1/2 -13 | 2- 5/8 | 67 | 15/32 | 12 | 1- 7/8 | 48 |

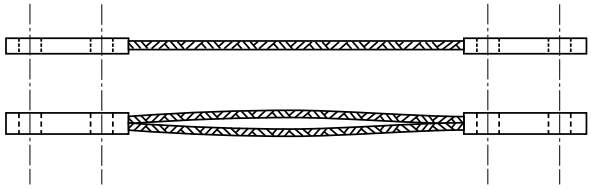
# Flexible Braid Jumper Straps & Ground Strap

FS, SA SERIES



## FLEXIBLE BRAID JUMPER STRAPS

- Recommended for motion due to expansion, contraction, vibration and operational movement of current carrying members.
- Manufactured from flat, extra-flexible tinned braid, they are available in a wide variety of sizes and amperages.
- The ferrules are made from pure electrolytic copper and are tin-plated.
- Standard mounting holes are 9/16" NEMA spaded holes.



All dimensional data is listed in inches.

| CAT NO. | LENGTH | AMPERE RATING INDOORS | AMPERE RATING OUTDOORS | APPROX. CIRCULAR MILS | THICKNESS | WIDTH (2 HOLE PAD ONLY) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **FS1-19-8N** | 12 | 190 | 225 | 77,000 | 1/4 | 11/16 | 1 |
| **FS1-19-8N-18** | 18 | 190 | 225 | 77,000 | 1/4 | 11/16 | 1 |
| **FS1-19-8N-24** | 24 | 190 | 225 | 77,000 | 1/4 | 11/16 | 1 |
| **FS1-33-8N** | 12 | 330 | 400 | 154,500 | 1/4 | 1 1/2 | 1 |
| **FS1-33-8N-18** | 18 | 330 | 400 | 154,500 | 1/4 | 1 1/2 | 1 |
| **FS1-33-8N-24** | 24 | 330 | 400 | 154,000 | 1/4 | 1 1/2 | 1 |
| **FS2-60-8N** | 12 | 600 | 720 | 463,000 | 7/16 | 13/16 | 1 |

## FLEXIBLE GROUND STRAP

- Woven of high conductivity, annealed, tinned copper wire, this braided ground strap provides maximum flexibility and ease of handling when installing ground or shield continuity.
- This braid is used for shield and lead-sheath grounding and is easily soldered to lead, copper and tinned metals.
- It is also used for continuing the fault-carrying capacity of the cable shield as a jumper braid.



| CAT. NO. | WIDTH (IN) | LENGTH (FT) | EQUIVALENT AWG SIZE | STD. CTN. QTY. |
|---|---|---|---|---|
| **SA 382B** | 3/8 | 25 | 9 AWG | 1 |
| **SA 382C** | 3/8 | 100 | 9 AWG | 1 |
| **SA 582B** | 1/2 | 25 | 6 AWG | 1 |
| **SA 582C** | 1/2 | 100 | 6 AWG | 1 |

GROUNDING CONNECTORS

# Grounding Pigtails (for solid & stranded wire) and Grounding Clips

PG, GGC, GSH, GSC SERIES



## FEATURES

### SOLID PIGTAILS WITH SCREWS

- Pigtails are insulated conductors supplied with an attached ground screw on one end and the insulation stripped back one inch on the other end.
- Meets NEC requirements.

### STRANDED WITH RING & SPADE

- Supplied with a spade terminal on one end and a ring terminal with a captive green-dyed screw on the other end.
- 65 strand #12 AWG and 41 strand #14 AWG for maximum flexibility.




## RATINGS

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **PG14C** | 1 | 6.5 Inch 14 AWG Solid With Combo Screw - Green | 50 |
| **PG12C** | 1 | 6.5 Inch 12 AWG Solid With Combo Screw - Green | 50 |
| **PG12C-8** | 1 | 8 Inch 12 AWG Solid Wtih Combo Screw - Green | 50 |
| **PG14SC** | 2 | 8 Inch 14 AWG (41W) Stranded With Combo Slotted Screw | 50 |
| **PG12SC** | 2 | 8 Inch 12 AWG (65W) Stranded With Combo Slotted Screw | 50 |
| **GSH** | 3 | Hex Head Green Grounding Screw | 100 |
| **GSC** | 3 | Combo Slotted Hex Screw | 100 |
| **GGC-1000** | 4 | Green Grounding Clips | 100 |


Raccords Pou
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22-1
MAX: 1#16 w/1#18
M


130
EASY-TWIST™
ET-CP-11
RE CONNECTORS
(50)
nnectors
r Fils Gris
De Cable
4 AWG
w/1#20
IN: 2#22
300

# EASY-TWIST™

EASY-TWIST™

# Standard Twist-On Wire Connectors

WC SERIES

Example: (100) (10X100) =

100 in standard package,
1000 in standard carton.

## FEATURES

- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Sure-grip ribs improve gripping comfort.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.



## RATINGS

LISTED WIRE CONNECTOR E155027 231168 RoHs

UL 486C Listed Wire Connector.

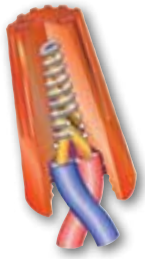
**TEMPERATURE RATING:**
105 °C (221 °F),
150 °C (302 °F) High Temp.

**VOLTAGE:**
1,000V max. in fixtures and signs.

**WIRE TYPE:**
For Copper wire only.

**INSTALLATION:**
Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat.No. with "-B" suffix). Made to fit any pneumatic or electrical tool with a ¼" chuck or drive socket.

Scan **QR code** for mobile access to wire combinations.



| COLOR/ TYPE | WIRE RANGE | MAX VOLTAGE | WIRE RANGE MIN. | WIRE RANGE MAX. |
|---|---|---|---|---|
| Grey | 22-14 AWG | 300V | 2 #22 AWG | 1 #14 w/ 1 #20 AWG |
| Blue | 22-14 AWG | 300V | 2 #22 AWG | 3 #16 AWG |
| Orange | 22-14 AWG | 600V | 1 #18 w/ 1 #20 AWG | 4 #16 w/ 1 #20 AWG |
| Yellow | 22-10 AWG | 600V | 3 #20 AWG | 1 #10 w/ 2 #14 w/ 1 #16 AWG |
| Red | 22-8 AWG | 600V | 3 #18 AWG | 3 #10 AWG |
| High Temp 1 | 22-18 AWG | 300V | 1 #18 Str w/ 1 #22 Str | 2 #18 Str |
| High Temp 3 | 22-14 AWG | 600V | 1 #16 w/1 #22 | 1 #14 w/ 1 #16 w/ 1 #18 |





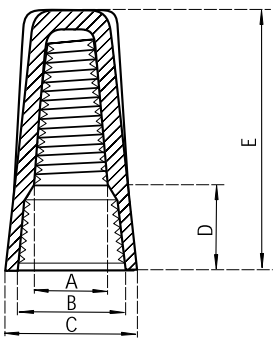
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| CARTON | SMALL JAR | LARGE JAR | BAG | BULK | DRUM |
|---|---|---|---|---|---|
| **WC-G-C** (100) (10x100) | **WC-G-SJ** (300) (50x300) | – | **WC-G-B** (1000) (26x1000) | **WC-G** (25000) | – |
| **WC-B-C** (100) (10x100) | **WC-B-SJ** (300) (50x300) | – | **WC-B-B** (1000) (18x1000) | **WC-B** (10000) | – |
| **WC-O-C** (100) (10x100) | **WC-O-CJ** (100) (50x100) | **WC-O-J** (700) (12x700) **WC-O-SJ** (300) (12x300) | **WC-O-B** (500) (16x500) | **WC-O** (10000) | **WC-O-D** (50000) |
| **WC-Y-C** (100) (10x100) | **WC-Y-CJ** (100) (50x100) | **WC-Y-J** (500) (12x500) **WC-Y-SJ** (200) (12x200) | **WC-Y-B** (500) (12x500) | **WC-Y** (10000) | **WC-Y-D** (35000) |
| **WC-R-C** (100) (10x100) | **WC-R-SJ** (100) (20x100) | **WC-R-J** (350) (12x350) | **WC-R-B** (500) (8x500) | **WC-R** (5000) | **WC-R-D** (25000) |
| – | – | – | **WC-HB1-B** (1000) (26x1000) | **WC-HB1** (10000) | – |
| – | – | – | **WC-HB3-B** (500) (16x500) | **WC-HB3** (10000) | – |




All Dimenional Data is listed in inches.

| COLOR | MAX. SPRING WIDTH (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/ HEIGHT (E) |
|---|---|---|---|---|---|
| Grey | 0.150 | 0.256 | 0.339 | 0.217 | 0.598 |
| Blue | 0.161 | 0.280 | 0.390 | 0.217 | 0.697 |
| Orange | 0.197 | 0.382 | 0.500 | 0.268 | 0.866 |
| Yellow | 0.236 | 0.433 | 0.551 | 0.268 | 0.969 |
| Red | 0.339 | 0.516 | 0.642 | 0.406 | 1.043 |
| High Temp 1 | 0.150 | 0.256 | 0.339 | 0.228 | 0.598 |
| High Temp 3 | 0.197 | 0.382 | 0.500 | 0.307 | 0.866 |

EASY-TWIST™

# Winged Twist-On Wire Connectors

## WWC SERIES

Example: (100) (10X100) =

100 in standard package,
1000 in standard carton.

## FEATURES

- Deep surface ridges provide better grip.
- Ergonomic, swept-back wing design provides handling comfort and increased torque ability.
- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.

## RATINGS

LISTED WIRE CONNECTOR E155027 · 231168 · RoHs

UL 486C Listed Wire Connector.
WWC-GR is UL 467 Listed Grounding and Bonding.

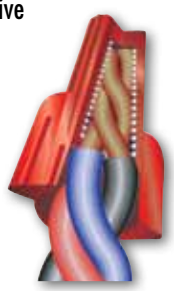
**TEMPERATURE RATING:**
105 °C (221 °F).

**VOLTAGE:**
600V max., 1,000V max. in fixtures and signs.

**WIRE TYPE:**
For Copper wire only.

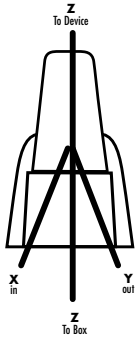
**INSTALLATION:**
Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat.No. with "-B" suffix). Made to fit any pneumatic or electrical tool with a ¼" chuck or drive

Scan **QR code** for mobile access to wire combinations.





| COLOR/ TYPE | WIRE RANGE | MAX VOLTAGE | WIRE RANGE MIN. | WIRE RANGE MAX. |
|---|---|---|---|---|
| Yellow | 18 - 10 AWG | 600V | 2 #18 AWG | 3 #12 AWG |
| Tan | 22-8 AWG | 600V | 3 #22 AWG | 4 #12 AWG |
| Red | 18-8 AWG | 600V | 3 #16 AWG | 5 #12 AWG |
| Grey | 18 - 8 AWG | 600V | 3 #14 w/1 #18 AWG | 3 #10 AWG |
| Blue | 14 - 6 AWG | 600V | 2 #10 w/ 1 #12 AWG | 1 #8 w/ 3 #10 AWG |
| Green GND | 14-10 AWG | 600V | 2 #14 | 5 #12 |
| Yellow N1 | 22 - 10 AWG | 600V | 4 #22 AWG | 3 #12 AWG |
| Red N2 | 22 - 6 AWG | 600V | 3 #20 AWG | 1 #8 w/ 3#12 AWG |




**WINGED GREEN GROUNDING CONNECTOR:**
**X** System grounding wire
**Y** System grounding wire
**Z** "Through" wire between device and box ground
**Note:** If "through" wire is a jumper, be sure wire extends below skirt 6" min.





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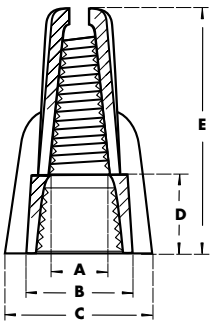







| CARTON | SMALL JAR | LARGE JAR | BAG | BULK | DRUM |
|---|---|---|---|---|---|
| **WWC-Y-C** (100) (10X100) | **WWC-Y-CJ** (100) (50x100) | **WWC-Y-J** (550) (12x550) | **WWC-Y-B** (500) (13x500) | **WWC-Y** (5000) | **WWC-Y-D** (35000) |
| **WWC-T-C** (100) (10x100) | **WWC-T-CJ** (100) (50x100) **WWC-T-SJ** (100) (50x100) | **WWC-T-J** (450) (12x450) | **WWC-T-B** (500) (12x500) | **WWC-T** (5000) | **WWC-T-D** (30000) |
| **WWC-R-C** (100) (10x100) | **WWC-R-SJ** (100) (20x100) | **WWC-R-J** (300) (12x300) | **WWC-R-B** (500) (7x500) | **WWC-R** (5000) | **WWC-R-D** (20000) |
| **WWC-G-C** (50) (10x50) | **WWC-G-SJ** (50) (32x50) | – | **WWC-G-B** (250) (11x250) | **WWC-G** (5000) | **WWC-G-D** (20000) |
| **WWC-B-C** (50) (10x50) | **WWC-B-SJ** (50) (20x50) | **WWC-B-J** (125) (12x125) | **WWC-B-B** (100) (16x100) | **WWC-B** (2500) | **WWC-B-D** (9500) |
| **WWC-GR-C** (100) (10x100) | **WWC-GR-SJ** (100) (20x100) | **WWC-GR-J** (300) (12x350) | **WWC-GR-B** (500) (9x500) | **WWC-GR** (25000) | **WWC-GR-D** (25000) |
| **WWC-N1-C** (100) (10X100) | **WWC-N1-CJ** (100) (50x100) | - | **WWC-N1-B** (500) (13x500) | **WWC-N1** (10000) | - |
| **WWC-N2-C** (100) (10X100) | - | - | **WWC-N2-B** (500) (9x500) | **WWC-N2** (10000) | - |

Shown: WWC-GR




All Dimenional Data is listed in inches.

| COLOR | MAX. SPRING WIDTH (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/ HEIGHT (E) |
|---|---|---|---|---|---|
| Yellow | 0.252 | 0.386 | 0.717 | 0.354 | 1.016 |
| Tan | 0.283 | 0.457 | 0.720 | 0.362 | 1.142 |
| Red | 0.354 | 0.512 | 0.906 | 0.378 | 1.252 |
| Grey | 0.394 | 0.587 | 1.004 | 0.394 | 1.311 |
| Blue | 0.472 | 0.701 | 1.260 | 0.512 | 1.575 |
| Green | 0.327 | 0.476 | 0.795 | 0.370 | 1.134 |
| N-type Yellow | 0.287 | 0.429 | 0.492 | 0.417 | 0.992 |
| N-Type Red | 0.358 | 0.520 | 0.583 | 0.453 | 1.161 |

EASY-TWIST™

# Wire Connector Combination Pails

## WC & WWC SERIES




## FEATURES

- Compact, easy to carry pail, also convenient for use on maintenance cart.
- 4-pack pail includes the most common Easy-Twist™ connectors.



## RATINGS

LISTED WIRE CONNECTOR E155027 231168 RoHs

UL 486C Listed Wire Connector.

**TEMPERATURE RATING:**
105 °C (221 °F).

**VOLTAGE:**
1,000V max. in fixtures and signs.

**WIRE TYPE:**
For copper wire only.

Scan **QR code** for mobile access to wire combinations.

| CAT. NO. |
|---|
| ET-CP-1 |
| ET-CP-2 |
| ET-CP-3 |
| ET-CP-11 |
| ET-CP-12 |
| ET-CP-13 |
| ET-CP-14 |
| ET-CP-15 |





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| PAIL CONTENTS | COLOR | WIRE RANGE | QTY. PER PAIL | STD. CTN. QTY. |
|---|---|---|---|---|
| WWC-T | Tan | 22-8 AWG | 70 | |
| WWC-Y | Yellow | 18-10 AWG | 80 | 12 |
| WWC-R | Red | 18-8 AWG | 45 | |
| WWC-B | Blue | 14-6 AWG | 20 | |
| WC-O | Orange | 22-14 AWG | 100 | |
| WC-Y | Yellow | 22-10 AWG | 75 | 12 |
| WC-R | Red | 22-10 AWG | 50 | |
| WWC-T | Tan | 22-8 AWG | 70 | |
| WC-O | Orange | 22-14 AWG | 100 | |
| WWC-T | Tan | 22-8 AWG | 70 | 12 |
| WWC-Y | Yellow | 18-10 AWG | 80 | |
| WWC-R | Red | 18-8 AWG | 45 | |
| WWC-T | Tan | 22-8 AWG | 40 | |
| WWC-Y | Yellow | 18-10 AWG | 50 | 16 |
| WWC-R | Red | 18-8 AWG | 30 | |
| WWC-B | Blue | 14-6 AWG | 10 | |
| WC-O | Orange | 22-14 AWG | 65 | |
| WC-Y | Yellow | 22-10 AWG | 45 | 16 |
| WC-R | Red | 22-10 AWG | 30 | |
| WWC-T | Tan | 22-8 AWG | 40 | |
| WC-O | Orange | 22-14 AWG | 60 | |
| WWC-T | Tan | 22-8 AWG | 45 | 16 |
| WWC-Y | Yellow | 18-10 AWG | 50 | |
| WWC-R | Red | 18-8 AWG | 30 | |
| WC-O | Orange | 22-14 AWG | 65 | |
| WC-Y | Yellow | 22-10 AWG | 45 | 16 |
| WC-R | Red | 22-10 AWG | 30 | |
| WC-B | Blue | 22-14 AWG | 100 | |
| WC-G | Gray | 22-14 AWG | 120 | |
| WC-B | Blue | 22-14 AWG | 100 | 16 |
| WC-O | Orange | 22-14 AWG | 65 | |
| WC-Y | Yellow | 22-10 AWG | 45 | |

EASY-TWIST™

# Push-In Wire Connectors

## PIWC SERIES



Example: (100) (10X100) =

100 in standard package,
1000 in standard carton.

## FEATURES

- Fast, safe and reliable installation saves time and money.
- No twisting or taping of conductors required.
- Just strip the wire, insert the connector and you are done.
- One wire per opening ensures loose connections are eliminated.
- Made of strong, UL 94V-2 flame retardant polycarbonate.
- Integrated test port enables continuity testing.
- Color coded for easy identification.
- Compact design perfect for tight spaces.
- Copper, tin-plated; stainless steel spring; steel frame, zinc-plated.
- For use with 22-12 AWG solid or stranded wire.

| | COLOR/ TYPE | NO. OF PORTS | WIRE RANGE |
|---|---|---|---|
|  | Yellow | 2 | 22-12 AWG |
|  | Orange | 3 | 22-12 AWG |
|  | Clear | 4 | 22-12 AWG |
|  | Blue | 5 | 22-12 AWG |
|  | Purple | 6 | 22-12 AWG |
|  | Grey | 8 | 22-12 AWG |

## RATINGS

c UL us LISTED WIRE CONNECTOR E155027

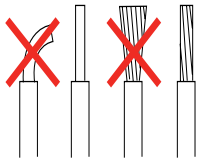
231168

UL 486C Listed Wire Connector.

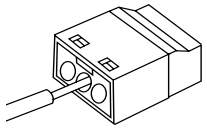
**TEMPERATURE RATING:**
-40 °F to 221 °F (-30 °C to 105 °C).

**VOLTAGE:**
600V max., 1,000V max. in fixtures and signs.

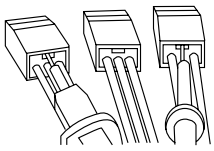
## INSTALLATION



1. Turn off power. Strip wire approximately 0.45 inches (11mm).



2. Push the stripped conductor into the port of connector fully. No twisting or taping.



3. Use a voltage meter to test your connection via the port on connector.

Scan **QR code** for mobile access to wire combinations.



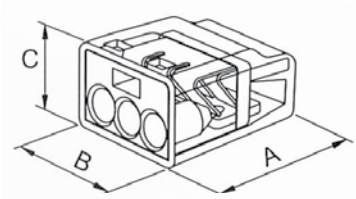


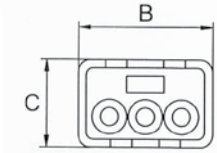
nsi INDUSTRIES

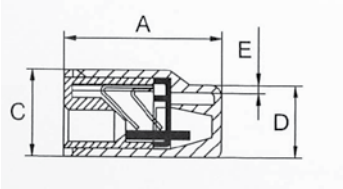





| MAX VOLTAGE | WIRE RANGE MIN. | WIRE RANGE MAX. | CARTON | BAG |
|---|---|---|---|---|
| 600V | 2 #22 AWG | 2 #12 AWG | **PIWC -2-C** (100) (10x100) | **PIWC-2-B** (500) (14x500) |
| 600V | 2 #22 AWG | 3 #12 AWG | **PIWC -3-C** (100) (10x100) | **PIWC-3-B** (500) (11x500) |
| 600V | 2 #22 AWG | 4 #12 AWG | **PIWC -4-C** (75) (10x75) | **PIWC-4-B** (400) (11x400) |
| 600V | 2 #22 AWG | 5 #12 AWG | **PIWC -5-C** (50) (10x50) | **PIWC-5-B** (300) (12x300) |
| 600V | 2 #22 AWG | 6 #12 AWG | **PIWC -6-C** (50) (10x50) | **PIWC-6-B** (250) (12x250) |
| 600V | 2 #22 AWG | 8 #12 AWG | **PIWC -8-C** (40) (10x40) | **PIWC-8-B** (200) (12x200) |




All Dimenional Data is listed in inches.

| COLOR | DEPTH (A) | WIDTH (B) | FRONT HEIGHT (C) | REAR HEIGHT (D) | CASE THICKNESS (E) |
|---|---|---|---|---|---|
| Yellow | 0.748 | 0.463 | 0.411 | 0.343 | 0.035 |
| Orange | 0.748 | 0.626 | 0.411 | 0.343 | 0.035 |
| Clear | 0.748 | 0.789 | 0.411 | 0.343 | 0.035 |
| Blue | 0.748 | 0.953 | 0.411 | 0.343 | 0.035 |
| Purple | 0.748 | 1.116 | 0.411 | 0.343 | 0.035 |
| Black | 0.748 | 1.443 | 0.411 | 0.343 | 0.035 |

EASY-TWIST™

# Crimp Sleeve & Nylon Wire Connectors

## SB, TOP & C-N SERIES

Example: (100) (10X100) =

100 in standard package,
1000 in standard carton.

## FEATURES

- **COPPER CRIMP SLEEVES:** Bullet is designed for easy installation and provide an exceptional connection.
- **CLOSED END CONNECTORS:** Made from nylon 6/6 (Polyimide 66).
- **STEEL CRIMP SLEEVES:** Economical, brass-plated steel provides an excellent low resistance connection.
- UL 94V-2 self extinguishing, closed end style.

**CERAMICS**

- Made of high quality ceramics.
- Have excellent electrical and heat resistant properties.
- Maximum working temperature of 1,000 °F.
- For applications above 200 °F.
- Uses include appliances, high powered lighting fixtures, ceiling fans, heaters, plastic extrusion/injection molding barrels and similar high temperature applications.









| COLOR/ TYPE | WIRE RANGE |
|---|---|
| Copper Crimp Sleeve | 18-10 AWG |
| Copper Crimp Sleeve | 18-8 AWG |
| Steel Crimp Sleeve | 18-10 AWG |
| Steel Crimp Sleeve | 14-8 AWG |
| Ceramic, White | 22-14 AWG |
| Ceramic, White | 22-10 AWG |
| Ceramic, White | 18-8 AWG |
| Nylon, Clear | 22-18 AWG |
| Nylon, Clear | 22-14 AWG |
| Nylon, Clear | 22-10 AWG |
| Nylon, Clear | 16-10 AWG |

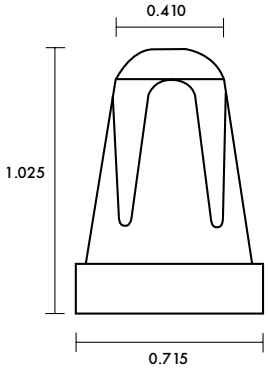
## RATINGS

LISTED WIRE CONNECTOR 231168

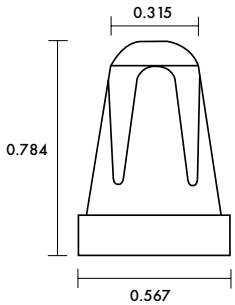
Part # SB is UL Listed
Part # C-N and C-N-B are UL and CSA Listed

**TEMPERATURE RATING:**
C-N Series 105 °C (221 °F)
TOP Series 93.3333 °C (200 °F)

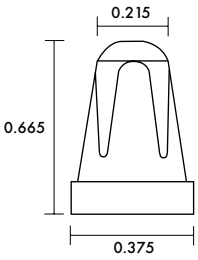
**TOP-L**




**TOP-M**




**TOP-S**



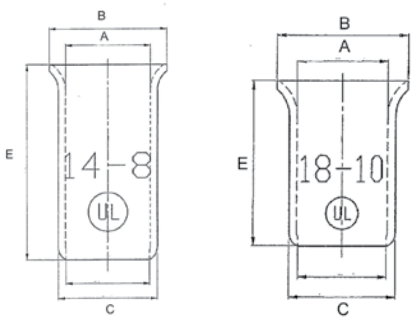

Scan **QR code** for mobile access to wire combinations.







| MAX VOLTAGE | BLISTER PACK | CARTON | BAG |
|---|---|---|---|
| – | **SB1810**<br>(100) (10x100) | – | **SB1810-B**<br>(1000) (10x1000) |
| – | **SB1808**<br>(50) (10x50)) | – | **SB1808-B**<br>(500) (10x500) |
| – | **SB1810S**<br>(100) (10x100) | – | **SB1810S-B**<br>(1000) (10x1000) |
| – | **SB1408S**<br>(50) (10x50) | – | **SB1408S-B**<br>(500) (10x500) |
| – | **TOP-S-D**<br>(15) (15x25) | **TOP-S-CD**<br>(100) (10x100) | – |
| – | **TOP-M-D**<br>(15) (15x25) | **TOP-M-CD**<br>(100) (10x100) | – |
| – | **TOP-L-D**<br>(15) (15x25) | **TOP-L-CD**<br>(100) (10x100) | – |
| 300V | – | **C22-N**<br>(100) (18x100) | **C22-N-B**<br>(1000) (30x1000) |
| 300V | – | **C16-N**<br>(100) (12x100) | **C16-N-B**<br>(1000) (20x1000) |
| 300V | – | **C12-N**<br>(50) (12x50) | **C12-N-B**<br>(1000) (10x1000) |
| 300V | – | **C8-N**<br>(40) (12x40) | **C8-N-B**<br>(500) (12x500) |




All Dimenional Data is listed in inches.

| CAT. NO. | I.D. (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/ HEIGHT (E) |
|---|---|---|---|---|---|
| SB1810 | 0.204 | 0.295 | 0.240 | n/a | 0.374 |
| SB1808 | 0.263 | 0.364 | 0.307 | n/a | 0.610 |
| C22-N | 0.102 | 0.244 | 0.307 | 0.236 | 0.709 |
| C16-N | 0.118 | 0.311 | 0.374 | 0.276 | 0.787 |
| C12-N | 0.173 | 0.413 | 0.492 | 0.378 | 1.004 |
| C8-N* | 0.209 | 0.488 | 0.563 | 0.472 | 1.091 |


0712



# MINITERMS & SWITCHES

# Butt Splices

## B SERIES

## FEATURES

### VINYL:

Stripped wires are inserted from each end and "butt" in the center. A crimp at each end secures the connection.

Electro tin plated copper, vinyl (PVC) 300V, 75 °C.

### UN-INSULATED:

Stripped wires are inserted from each end and "butt" in the center. A crimp at each end secures the connection.

Electro tin plated copper, 600V, 105 °C.

### POLYOLEFIN HS:

Stripped wires are inserted from each end and "butt" in the center. A crimp at each end secures the connection.

Electro tin plated copper, Heat shrink, 600V, 105 °C, Shrink temp 150 °C.

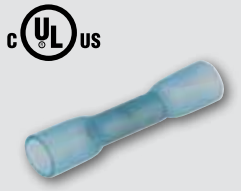
### NYLON:

Stripped wires are inserted from each end and "butt" in the center. A crimp at each end secures the connection.

Electro tin plated copper, Nylon, 600V, 105 °C.









| INSULATION TYPE | WIRE RANGE | CERTIFICATION VARIANCE |
|---|---|---|
| Vinyl | 22-18 | |
| Vinyl | 16-14 | |
| Vinyl | 12-10 | |
| Vinyl | 8 | UL |
| Vinyl | 6 | UL |
| Un-insulated - Bare | 22-18 | |
| Un-insulated - Bare | 16-14 | |
| Un-insulated - Bare | 12-10 | UL |
| Un-insulated - Bare | 8 | |
| Polyolefin HS | 22-18 | |
| Polyolefin HS | 16-14 | |
| Polyolefin HS | 12-10 | |
| Nylon | 22-18 | |
| Nylon | 16-14 | |
| Nylon | 12-10 | |



| | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|
| LENGTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 1.024 | **B22-V-S** | 25 | **B22-V-P** | 70 | **B22-V** | 100 | **B22-V-BULK** | 1000 |
| 1.024 | **B16-V-S** | 20 | **B16-V-P** | 50 | **B16-V** | 100 | **B16-V-BULK** | 1000 |
| 1.024 | **B12-V-S** | 15 | **B12-V-P** | 30 | **B12-V** | 50 | **B12-V-BULK** | 500 |
| 1.398 | – | – | **B8-V-P** | 10 | **B8-V** | 50 | **B8-V-BULK** | 250 |
| 1.855 | – | – | – | – | **B6-V** | 50 | **B6-V-BULK** | 100 |
| | | | | | | | | |
| 0.472 | – | – | – | – | **B22** | 100 | **B22-BULK** | 1000 |
| 0.591 | – | – | – | – | **B16** | 100 | **B16-BULK** | 1000 |
| 0.591 | – | – | – | – | **B12** | 50 | **B12-BULK** | 1000 |
| 0.827 | – | – | – | – | **B8** | 50 | **B8-BULK** | 1000 |
| | | | | | | | | |
| 0.945 | – | – | – | – | **SB22** | 25 | **SB22-BULK** | 500 |
| 1.457 | – | – | – | – | **SB16** | 25 | **SB16-BULK** | 500 |
| 1.614 | – | – | – | – | **SB12** | 50 | **SB12-BULK** | 500 |
| | | | | | | | | |
| 1.024 | – | – | – | – | **B22-N** | 100 | **B22-N-BULK** | 1000 |
| 1.024 | – | – | – | – | **B16-N** | 100 | **B16-N-BULK** | 1000 |
| 1.063 | – | – | – | – | **B12-N** | 50 | **B12-N-BULK** | 500 |

# Spade Terminals: Locking

## S SERIES

## FEATURES

### VINYL:

Tongue snaps around the screw & terminal is locked into place until the mounting screw can be tightened down.

Electro tin plated copper, vinyl (PVC) 300V, 75 °C.



### UN-INSULATED:

Tongue snaps around the screw & terminal is locked into place until the mounting screw can be tightened down.

Electro tin plated copper, 600V, 105 °C.



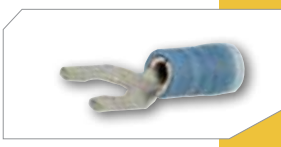
### NYLON:

Tongue snaps around the screw & terminal is locked into place until the mounting screw can be tightened down.

Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.



| INSULATION TYPE | WIRE RANGE | STUD SIZE |
|---|---|---|
| Vinyl | 22-18 | #10 |
| Vinyl | 22-18 | #6 |
| Vinyl | 22-18 | #8 |
| Vinyl | 16-14 | #10 |
| Vinyl | 16-14 | #6 |
| Vinyl | 16-14 | #8 |
| Vinyl | 12-10 | #10 |
| Vinyl | 12-10 | #6 |
| Vinyl | 12-10 | #8 |
| Un-insulated | 22-18 | #10 |
| Un-insulated | 22-18 | #6 |
| Un-insulated | 22-18 | #8 |
| Un-insulated | 16-14 | #10 |
| Un-insulated | 16-14 | #6 |
| Un-insulated | 16-14 | #8 |
| Un-insulated | 12-10 | #10 |
| Un-insulated | 12-10 | #6 |
| Un-insulated | 12-10 | #8 |
| Nylon | 22-18 | #8 |
| Nylon | 16-14 | #10 |
| Nylon | 16-14 | #6 |
| Nylon | 16-14 | #8 |
| Nylon | 12-10 | #10 |
| Nylon | 12-10 | #8 |



| | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|
| LENGTH (IN) | WIDTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.827 | 0.315 | – | – | S22-10V-L | 100 | S22-10V-L-BULK | 1000 |
| 0.827 | 0.228 | – | – | S22-6V-L | 100 | S22-6V-L-BULK | 1000 |
| 0.827 | 0.315 | – | – | S22-8V-L | 100 | S22-8V-L-BULK | 1000 |
| 0.866 | 0.335 | S16-10V-L-P | 85 | S16-10V-L | 100 | S16-10V-L-BULK | 1000 |
| 0.827 | 0.228 | – | – | S16-6V-L | 100 | S16-6V-L-BULK | 1000 |
| 0.827 | 0.283 | S16-8V-L-P | 85 | S16-8V-L | 50 | S16-8V-L-BULK | 1000 |
| 0.992 | 0.374 | – | – | S12-10V-L | 50 | S12-10V-L-BULK | 500 |
| 0.992 | 0.335 | – | – | S12-6V-L | 50 | S12-6V-L-BULK | 500 |
| 0.992 | 0.335 | – | – | S12-8V-L | 50 | S12-8V-L-BULK | 500 |
| 0.694 | 0.340 | – | – | S22-10-L | 100 | S22-10-L-BULK | 1000 |
| 0.585 | 0.260 | – | – | S22-6-L | 100 | S22-6-L-BULK | 1000 |
| 0.646 | 0.261 | – | – | S22-8-L | 100 | S22-8-L-BULK | 1000 |
| 0.694 | 0.340 | – | – | S16-10-L | 100 | S16-10-L-BULK | 1000 |
| 0.585 | 0.260 | – | – | S16-6-L | 100 | S16-6-L-BULK | 1000 |
| 0.646 | 0.320 | – | – | S16-8-L | 100 | S16-8-L-BULK | 1000 |
| 0.773 | 0.340 | – | – | S12-10-L | 50 | S12-10-L-BULK | 1000 |
| 0.664 | 0.260 | – | – | S12-6-L | 50 | S12-6-L-BULK | 1000 |
| 0.646 | 0.261 | – | – | S12-8-L | 50 | S12-8-L-BULK | 1000 |
| 0.866 | 0.315 | – | – | S22-8N-L | 100 | S22-8N-L-BULK | 1000 |
| 0.906 | 0.335 | – | – | S16-10N-L | 100 | S16-10N-L-BULK | 1000 |
| 0.866 | 0.328 | – | – | S16-6N-L | 100 | S16-6N-L-BULK | 1000 |
| 0.866 | 0.283 | – | – | S16-8N-L | 100 | S16-8N-L-BULK | 1000 |
| 1.012 | 0.374 | – | – | S12-10N-L | 50 | S12-10N-L-BULK | 1000 |
| 1.012 | 0.335 | – | – | S12-8N-L | 50 | S12-8N-L-BULK | 1000 |

# Spade Terminals Flange & Block

## S SERIES

## FEATURES

### FLANGE SPADES VINYL:

Turned up edges give this spade more safety and reliability. Flanges give a location and locking action that aid in installation.

Electro tin plated copper, vinyl (PVC) 300V, 75 °C.



### UN-INSULATED:

Electro tin plated copper, 600V, 105 °C.



### NYLON:

Turned up edges give this spade more safety and reliability. Flanges give a location and locking action that aid in installation.

Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.



### BLOCK SPADES VINYL:

Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Electro tin plated copper with brazed seam, Vinyl (PVC), 300V, 75 °C.



### UN-INSULATED:

Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Electro tin plated copper with brazed seam, 600V, 105 °C.



### NYLON:

Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Electro tin plated copper with brazed seam, easy-entry Nylon, 600V, 105 °C.



| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| **FLANGE SPADES** | | | |
| Vinyl | 22-18 | #6 | |
| Vinyl | 22-18 | #8 | |
| Vinyl | 16-14 | #10 | |
| Vinyl | 16-14 | #6 | |
| Vinyl | 16-14 | #8 | |
| Vinyl | 12-10 | #10 | |
| Vinyl | 12-10 | #8 | |
| Un-insulated | 16-14 | #10 | |
| Un-insulated | 16-14 | #6 | |
| Nylon | 22-18 | #6 | |
| Nylon | 16-14 | #10 | |
| Nylon | 16-14 | #6 | |
| Nylon | 16-14 | #8 | |
| Nylon | 12-10 | #10 | |
| **BLOCK SPADES** | | | |
| Vinyl | 22-18 | #10 | |
| Vinyl | 22-18 | #6 | |
| Vinyl | 22-18 | #8 | |
| Vinyl | 16-14 | #10 | |
| Vinyl | 16-14 | #6 | |
| Vinyl | 16-14 | #8 | |
| Un-insulated | 22-18 | #6 | |
| Un-insulated | 22-18 | #8 | |
| Un-insulated | 16-14 | #10 | NON-UL |
| Un-insulated | 16-14 | #6 | NON-UL |
| Un-insulated | 16-14 | #8 | NON-UL |
| Nylon | 22-18 | #10 | |
| Nylon | 22-18 | #6 | |
| Nylon | 16-14 | #10 | NON-UL |
| Nylon | 16-14 | #6 | |
| Nylon | 16-14 | #8 | |



| | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|
| LENGTH (IN) | WIDTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.836 | 0.301 | – | – | S22-6V-F | 100 | S22-6V-F-BULK | 1000 |
| 0.836 | 0.301 | – | – | S22-8V-F | 100 | S22-8V-F-BULK | 1000 |
| 0.850 | 0.301 | – | – | S16-10V-F | 100 | S16-10V-F-BULK | 1000 |
| 0.850 | 0.301 | – | – | S16-6V-F | 100 | S16-6V-F-BULK | 1000 |
| 0.850 | 0.301 | – | – | S16-8V-F | 100 | S16-8V-F-BULK | 1000 |
| 1.075 | 0.320 | – | – | S12-10V-F | 50 | S12-10V-F-BULK | 1000 |
| 1.075 | 0.320 | – | – | S12-8V-F | 50 | S12-8V-F-BULK | 1000 |
| 0.635 | 0.300 | – | – | S16-10-F | 100 | S16-10-F-BULK | 1000 |
| 0.570 | 0.301 | – | – | S16-6-F | 100 | S16-6-F-BULK | 1000 |
| 0.885 | 0.294 | – | – | S22-6N-F | 100 | S22-6N-F-BULK | 1000 |
| 0.910 | 0.293 | – | – | S16-10N-F | 100 | S16-10N-F-BULK | 1000 |
| 0.910 | 0.293 | – | – | S16-6N-F | 100 | S16-6N-F-BULK | 1000 |
| 0.908 | 0.294 | – | – | S16-8N-F | 100 | S16-8N-F-BULK | 1000 |
| 0.770 | 0.385 | – | – | S12-10N-F | 50 | S12-10N-F-BULK | 1000 |
| | | | | | | | |
| 0.831 | 0.297 | – | – | S22-10V-B | 100 | S22-10V-B-BULK | 1000 |
| 0.560 | 0.301 | – | – | S22-6V-B | 100 | S22-6V-B-BULK | 1000 |
| 0.822 | 0.296 | – | – | S22-8V-B | 100 | S22-8V-B-BULK | 1000 |
| | | | | S16-10V-B | 100 | S16-10V-BULK | 1000 |
| 0.828 | 0.251 | – | – | S16-6V-B | 100 | S16-6V-B-BULK | 1000 |
| 0.781 | 0.295 | – | – | S16-8V-B | 100 | S16-8V-B-BULK | 1000 |
| 0.560 | 0.255 | – | – | S22-6-B | 100 | S22-6-B-BULK | 1000 |
| 0.560 | 0.301 | – | – | S22-8-B | 100 | S22-8-B-BULK | 1000 |
| 0.560 | 0.301 | – | – | S16-10-B | 100 | S16-10-B-BULK | 1000 |
| 0.736 | 0.332 | – | – | S16-6-B | 100 | S16-6-B-BULK | 1000 |
| 0.736 | 0.329 | – | – | S16-8-B | 100 | S16-8-B-BULK | 1000 |
| 0.904 | 0.293 | – | – | S22-10N-B | 100 | S22-10N-B-BULK | 1000 |
| 0.904 | 0.297 | – | – | S22-6N-B | 100 | S22-6N-B-BULK | 1000 |
| 0.556 | 0.305 | – | – | S16-10N-B | 100 | S16-10N-B-BULK | 1000 |
| 0.940 | 0.245 | – | – | S16-6N-B | 100 | S16-6N-B-BULK | 1000 |
| 0.940 | 0.295 | – | – | S16-8N-B | 100 | S16-8N-B-BULK | 1000 |

# Spade Terminals

## S SERIES

## FEATURES

### VINYL:

Open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.

Electro tin plated copper, vinyl (PVC) 300V, 75 °C.



### UN-INSULATED:

Open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.

Electro tin plated copper, 600V, 105 °C.



### NYLON:

Open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.

Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.



| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| Vinyl | 22-18 | 1/4 | |
| Vinyl | 22-18 | #10 | |
| Vinyl | 22-18 | #4 | UL |
| Vinyl | 22-18 | #6 | |
| Vinyl | 22-18 | #8 | |
| Vinyl | 16-14 | 1/4 | |
| Vinyl | 16-14 | #10 | |
| Vinyl | 16-14 | #6 | |
| Vinyl | 16-14 | #8 | |
| Vinyl | 12-10 | 1/4 | |
| Vinyl | 12-10 | #10 | |
| Vinyl | 12-10 | #6 | |
| Vinyl | 12-10 | #8 | |
| Un-insulated | 22-18 | #10 | UL |
| Un-insulated | 22-18 | #4 | UL |
| Un-insulated | 22-18 | #6 | |
| Un-insulated | 22-18 | #8 | UL |
| Un-insulated | 16-14 | #10 | |
| Un-insulated | 16-14 | #6 | |
| Un-insulated | 16-14 | #8 | UL |
| Un-insulated | 12-10 | 1/4 | NON-UL |
| Un-insulated | 12-10 | #10 | |
| Un-insulated | 12-10 | #6 | UL |
| Un-insulated | 12-10 | #8 | |
| Un-insulated | 8 | 1/4 | NON-UL |
| Un-insulated | 8 | #10 | NON-UL |
| Nylon | 22-18 | #10 | UL |
| Nylon | 22-18 | #4 | UL |
| Nylon | 22-18 | #6 | UL |
| Nylon | 22-18 | #8 | UL |
| Nylon | 16-14 | 1/4 | NON-UL |
| Nylon | 16-14 | #10 | |
| Nylon | 16-14 | #6 | |
| Nylon | 16-14 | #8 | |
| Nylon | 12-10 | 1/4 | |
| Nylon | 12-10 | #10 | |
| Nylon | 12-10 | #6 | |
| Nylon | 12-10 | #8 | |
| Nylon | 8 | 1/4 | NON-UL |
| Nylon | 8 | #10 | NON-UL |

| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 1.070 | 0.472 | – | – | – | – | S22-14V | 100 | S22-14V-BULK | 1000 |
| 0.826 | 0.374 | S22-10V-S | 25 | S22-10V-P | 100 | S22-10V | 100 | S22-10V-BULK | 1000 |
| 0.817 | 0.251 | – | – | – | – | S22-4V | 100 | S22-4V-BULK | 1000 |
| 0.826 | 0.228 | S22-6V-S | 25 | S22-6V-P | 100 | S22-6V | 100 | S22-6V-BULK | 1000 |
| 0.826 | 0.283 | S22-8V-S | 25 | S22-8V-P | 100 | S22-8V | 100 | S22-8V-BULK | 1000 |
| 0.812 | 0.543 | – | – | – | – | S16-14V | 100 | S16-14V-BULK | 1000 |
| 0.966 | 0.362 | S16-10V-S | 20 | S16-10V-P | 85 | S16-10V | 100 | S16-10V-BULK | 1000 |
| 0.966 | 0.388 | S16-6V-S | 20 | S16-6V-P | 85 | S16-6V | 100 | S16-6V-BULK | 1000 |
| 1.103 | 0.388 | S16-8V-S | 20 | S16-8V-P | 85 | S16-8V | 100 | S16-8V-BULK | 1000 |
| 1.103 | 0.375 | S12-14V-S | 12 | S12-14V-P | 40 | S12-14V | 50 | S12-14V-BULK | 500 |
| 1.103 | 0.375 | S12-10V-S | 15 | S12-10V-P | 50 | S12-10V | 50 | S12-10V-BULK | 500 |
| 1.103 | 0.375 | S12-6V-S | 15 | S12-6V-P | 50 | S12-6V | 50 | S12-6V-BULK | 500 |
| 0.690 | 0.316 | S12-8V-S | 15 | S12-8V-P | 50 | S12-8V | 50 | S12-8V-BULK | 500 |
| 0.623 | 0.251 | – | – | – | – | S22-10 | 100 | S22-10-BULK | 1000 |
| 0.629 | 0.228 | – | – | – | – | S22-4 | 100 | S22-4-BULK | 1000 |
| 0.778 | 0.316 | – | – | – | – | S22-6 | 100 | S22-6-BULK | 1000 |
| 0.770 | 0.388 | – | – | – | – | S22-8 | 100 | S22-8-BULK | 1000 |
| 0.638 | 0.245 | – | – | S16-10-P | 100 | S16-10 | 100 | S16-10-BULK | 1000 |
| 0.635 | 0.295 | – | – | – | – | S16-6 | 100 | S16-6-BULK | 1000 |
| 1.000 | 0.492 | – | – | S16-8-P | 100 | S16-8 | 100 | S16-8-BULK | 1000 |
| 0.812 | 0.375 | – | – | – | – | S12-14 | 50 | S12-14-BULK | 1000 |
| 0.812 | 0.375 | – | – | – | – | S12-10 | 50 | S12-10-BULK | 1000 |
| 0.812 | 0.375 | – | – | – | – | S12-6 | 50 | S12-6-BULK | 1000 |
| 0.953 | 0.471 | – | – | – | – | S12-8 | 50 | S12-8-BULK | 1000 |
| 0.956 | 0.471 | – | – | – | – | S8-14 | 50 | S8-14-BULK | 100 |
| 1.033 | 0.322 | – | – | – | – | S8-10 | 50 | S8-10-BULK | 100 |
| 0.727 | 0.187 | – | – | – | – | S22-10N | 100 | S22-10N-BULK | 1000 |
| 1.031 | 0.319 | – | – | – | – | S22-4N | 100 | S22-4N-BULK | 1000 |
| 0.898 | 0.286 | – | – | – | – | S22-6N | 100 | S22-6N-BULK | 1000 |
| 1.022 | 0.472 | – | – | – | – | S22-8N | 100 | S22-8N-BULK | 1000 |
| 0.898 | 0.338 | – | – | – | – | S16-14N | 100 | S16-14N-BULK | 1000 |
| 0.855 | 0.255 | – | – | – | – | S16-10N | 100 | S16-10N-BULK | 1000 |
| 0.855 | 0.286 | – | – | – | – | S16-6N | 100 | S16-6N-BULK | 1000 |
| 1.221 | 0.476 | – | – | – | – | S16-8N | 100 | S16-8N-BULK | 1000 |
| 1.024 | 0.375 | – | – | – | – | S12-14N | 50 | S12-14N-BULK | 500 |
| 1.000 | 0.336 | – | – | – | – | S12-10N | 50 | S12-10N-BULK | 500 |
| 1.000 | 0.375 | – | – | – | – | S12-6N | 50 | S12-6N-BULK | 500 |
| 1.256 | 0.474 | – | – | – | – | S12-8N | 50 | S12-8N-BULK | 500 |
| 1.256 | 0.474 | – | – | – | – | S8-14N | 50 | S8-14N-BULK | 500 |
| 1.256 | 0.474 | – | – | – | – | S8-10N | 50 | S8-10N-BULK | 500 |

# Ring Terminals
# Vinyl
## R SERIES

## FEATURES

### VINYL:

Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.

Electro tin plated copper with brazed seam, vinyl (PVC) 300V, 75 °C.







| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| Vinyl | 22-18 | 1/4 | |
| Vinyl | 22-18 | 5/16 | UL |
| Vinyl | 22-18 | 3/8 | UL |
| Vinyl | 22-18 | #10 | |
| Vinyl | 22-18 | #6 | |
| Vinyl | 22-18 | #8 | |
| Vinyl | 16-14 | 1/4 | |
| Vinyl | 16-14 | 5/16 | |
| Vinyl | 16-14 | 3/8 | |
| Vinyl | 16-14 | 1/2 | NON-UL |
| Vinyl | 16-14 | #10 | |
| Vinyl | 16-14 | #6 | |
| Vinyl | 16-14 | #8 | |
| Vinyl | 12-10 | 1/4 | |
| Vinyl | 12-10 | 5/16 | |
| Vinyl | 12-10 | 3/8 | |
| Vinyl | 12-10 | 1/2 | |
| Vinyl | 12-10 | #10 | |
| Vinyl | 12-10 | #6 | |
| Vinyl | 12-10 | #8 | |
| Vinyl | 8 | 1/4 | UL |
| Vinyl | 8 | 5/16 | UL |
| Vinyl | 8 | 3/8 | UL |
| Vinyl | 8 | 1/2 | UL |
| Vinyl | 8 | #10 | UL |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 1.055 | 0.456 | – | --- | – | – | **R22-14V** | 100 | **R22-14V-BULK** | 1000 |
| 1.085 | 0.464 | – | --- | – | – | **R22-56V** | 100 | **R22-56V-BULK** | 1000 |
| 1.306 | 0.534 | – | --- | – | – | **R22-38V** | 100 | **R22-38V-BULK** | 1000 |
| 0.826 | 0.314 | **R22-10V-S** | 25 | **R22-10V-P** | 100 | **R22-10V** | 100 | **R22-10V-BULK** | 1000 |
| 0.826 | 0.314 | **R22-6V-S** | 25 | – | – | **R22-6V** | 100 | **R22-6V-BULK** | 1000 |
| 0.826 | 0.314 | **R22-8V-S** | 25 | **R22-8V-P** | 100 | **R22-8V** | 100 | **R22-8V-BULK** | 1000 |
| 1.062 | 0.472 | – | --- | **R16-14V-P** | 70 | **R16-14V** | 100 | **R16-14V-BULK** | 1000 |
| 1.062 | 0.472 | – | --- | – | – | **R16-56V** | 100 | **R16-56V-BULK** | 1000 |
| 1.208 | 0.535 | – | --- | – | – | **R16-38V** | 100 | **R16-38V-BULK** | 1000 |
| 1.348 | 0.745 | – | --- | – | – | **R16-50V** | 100 | **R16-50V-BULK** | 1000 |
| 0.866 | 0.334 | **R16-10V-S** | 25 | **R16-10V-P** | 90 | **R16-10V** | 100 | **R16-10V-BULK** | 1000 |
| 0.767 | 0.259 | **R16-6V-S** | 25 | **R16-6V-P** | 90 | **R16-6V** | 100 | **R16-6V-BULK** | 1000 |
| 0.866 | 0.334 | **R16-8V-S** | 25 | **R16-8V-P** | 90 | **R16-8V** | 100 | **R16-8V-BULK** | 1000 |
| 1.141 | 0.472 | **R12-14V-S** | 20 | **R12-14V-P** | 50 | **R12-14V** | 50 | **R12-14V-BULK** | 500 |
| 1.326 | 0.59 | – | --- | – | – | **R12-56V** | 50 | **R12-56V-BULK** | 500 |
| 1.326 | 0.59 | **R12-38V-S** | 10 | – | – | **R12-38V** | 50 | **R12-38V-BULK** | 500 |
| 1.499 | 0.755 | – | --- | – | – | **R12-50V** | 50 | **R12-50V-BULK** | 500 |
| 1.003 | 0.374 | **R12-10V-S** | 10 | **R12-10V-P** | 50 | **R12-10V** | 50 | **R12-10V-BULK** | 500 |
| 1.003 | 0.374 | – | --- | – | – | **R12-6V** | 50 | **R12-6V-BULK** | 500 |
| 1.003 | 0.374 | **R12-8V-S** | 15 | **R12-8V-P** | 50 | **R12-8V** | 50 | **R12-8V-BULK** | 500 |
| 1.27 | 0.374 | – | --- | – | – | **R8-14V** | 50 | **R8-14V-BULK** | 250 |
| 1.31 | 0.328 | – | --- | – | – | **R8-56V** | 50 | **R8-56V-BULK** | 250 |
| 1.43 | 0.583 | – | --- | – | – | **R8-38V** | 50 | **R8-38V-BULK** | 250 |
| 1.73 | 0.81 | – | --- | – | – | **R8-50V** | 50 | **R8-50V-BULK** | 250 |
| 1.27 | 0.374 | – | --- | – | – | **R8-10V** | 50 | **R8-10V-BULK** | 250 |

# Ring Terminals Uninsulated

## R SERIES

## FEATURES

### UN-INSULATED:

Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.

Electro tin plated copper with brazed seam, 600V, 105 °C.



| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| Un-insulated | 22-18 | 1/4 | UL |
| Un-insulated | 22-18 | 5/16 | UL |
| Un-insulated | 22-18 | 3/8 | UL |
| Un-insulated | 22-18 | #10 | |
| Un-insulated | 22-18 | #6 | UL |
| Un-insulated | 22-18 | #8 | |
| Un-insulated | 16-14 | 1/4 | |
| Un-insulated | 16-14 | 5/16 | UL |
| Un-insulated | 16-14 | 3/8 | |
| Un-insulated | 16-14 | 1/2 | NON-UL |
| Un-insulated | 16-14 | #10 | |
| Un-insulated | 16-14 | #6 | UL |
| Un-insulated | 16-14 | #8 | |
| Un-insulated | #6 | 1/4 | UL |
| Un-insulated | #6 | 5/16 | UL |
| Un-insulated | #6 | 3/8 | UL |
| Un-insulated | #6 | 1/2 | UL |
| Un-insulated | #6 | #10 | UL |
| Un-insulated | #4 | 1/4 | UL |
| Un-insulated | #4 | 5/16 | UL |
| Un-insulated | #4 | 3/8 | UL |
| Un-insulated | #4 | 1/2 | UL |
| Un-insulated | #2 | 1/4 | UL |
| Un-insulated | #2 | 5/16 | UL |
| Un-insulated | #2 | 3/8 | UL |
| Un-insulated | #2 | 1/2 | UL |
| Un-insulated | 12-10 | 1/4 | |
| Un-insulated | 12-10 | 5/16 | |
| Un-insulated | 12-10 | 3/8 | |
| Un-insulated | 12-10 | 1/2 | NON-UL |
| Un-insulated | 12-10 | #10 | |
| Un-insulated | 12-10 | #6 | UL |
| Un-insulated | 12-10 | #8 | UL |
| Un-insulated | 8 | 1/4 | UL |
| Un-insulated | 8 | 5/16 | UL |
| Un-insulated | 8 | 3/8 | UL |
| Un-insulated | 8 | #10 | UL |

| | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|
| LENGTH (IN) | WIDTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.894 | 0.255 | – | – | **R22-14** | 100 | **R22-14-BULK** | 1000 |
| 0.893 | 0.323 | – | – | **R22-56** | 100 | **R22-56-BULK** | 1000 |
| 1.097 | 0.38 | – | – | **R22-38** | 100 | **R22-38-BULK** | 1000 |
| 0.629 | 0.314 | – | – | **R22-10** | 100 | **R22-10-BULK** | 1000 |
| 0.702 | 0.312 | – | – | **R22-6** | 100 | **R22-6-BULK** | 1000 |
| 0.629 | 0.314 | – | – | **R22-8** | 100 | **R22-8-BULK** | 1000 |
| 0.866 | 0.472 | – | – | **R16-14** | 100 | **R16-14-BULK** | 1000 |
| 0.892 | 0.472 | – | – | **R16-56** | 100 | **R16-56-BULK** | 1000 |
| 1.011 | 0.535 | – | – | **R16-38** | 100 | **R16-38-BULK** | 1000 |
| 1.123 | 0.748 | – | --- | **R16-50** | 100 | **R16-50-BULK** | 1000 |
| 0.669 | 0.334 | **R16-10-P** | 125 | **R16-10** | 100 | **R16-10-BULK** | 1000 |
| 0.704 | 0.313 | – | – | **R16-6** | 100 | **R16-6-BULK** | 1000 |
| 0.669 | 0.334 | **R16-8-P** | 125 | **R16-8** | 100 | **R16-8-BULK** | 1000 |
| 1.253 | 0.634 | – | – | **R6-14** | 50 | **R6-14-BULK** | 500 |
| 1.243 | 0.635 | – | – | **R6-56** | 50 | **R6-56-BULK** | 500 |
| 1.239 | 0.635 | – | – | **R6-38** | 50 | **R6-38-BULK** | 500 |
| 1.434 | 0.827 | – | – | **R6-50** | 50 | **R6-50-BULK** | 500 |
| 1.18 | 0.485 | – | – | **R6-10** | 50 | **R6-10-BULK** | 500 |
| 1.245 | 0.469 | – | – | **R4-14** | 25 | **R4-14-BULK** | 500 |
| 1.25 | 0.476 | – | – | **R4-56** | 25 | **R4-56-BULK** | 500 |
| 1.34 | 0.665 | – | – | **R4-38** | 25 | **R4-38-BULK** | 500 |
| 1.327 | 0.665 | – | – | **R4-50** | 25 | **R4-50-BULK** | 500 |
| 1.563 | 0.636 | – | – | **R2-14** | 25 | **R2-14-BULK** | 500 |
| 1.673 | 0.868 | – | – | **R2-56** | 25 | **R2-56-BULK** | 500 |
| 1.563 | 0.635 | – | – | **R2-38** | 25 | **R2-38-BULK** | 500 |
| 1.677 | 0.868 | – | – | **R2-50** | 25 | **R2-50-BULK** | 500 |
| 0.885 | 0.472 | – | – | **R12-14** | 50 | **R12-14-BULK** | 1000 |
| 1.07 | 0.59 | – | – | **R12-56** | 50 | **R12-56-BULK** | 500 |
| 1.07 | 0.59 | – | – | **R12-38** | 50 | **R12-38-BULK** | 500 |
| 1.284 | 0.755 | – | – | **R12-50** | 50 | **R12-50-BULK** | 500 |
| 0.74 | 0.372 | **R12-10-P** | 80 | **R12-10** | 50 | **R12-10-BULK** | 1000 |
| 0.766 | 0.374 | – | – | **R12-6** | 50 | **R12-6-BULK** | 500 |
| 0.766 | 0.376 | – | – | **R12-8** | 50 | **R12-8-BULK** | 500 |
| 0.956 | 0.457 | – | – | **R8-14** | 50 | **R8-14-BULK** | 500 |
| 0.952 | 0.471 | – | – | **R8-56** | 50 | **R8-56-BULK** | 500 |
| 1.083 | 0.59 | – | – | **R8-38** | 50 | **R8-38-BULK** | 500 |
| 0.955 | 0.47 | – | – | **R8-10** | 50 | **R8-10-BULK** | 500 |

# Ring Terminals
# Nylon
## R SERIES

## FEATURES

**NYLON:**
Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.

Electro tin plated copper with brazed seam, easy-entry Nylon, 600V, 105 °C.

c UL us







| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| Nylon | 22-18 | 1/4 | UL |
| Nylon | 22-18 | 5/16 | UL |
| Nylon | 22-18 | 3/8 | UL |
| Nylon | 22-18 | #10 | UL |
| Nylon | 22-18 | #4 | UL |
| Nylon | 22-18 | #6 | |
| Nylon | 22-18 | #8 | UL |
| Nylon | 16-14 | 1/4 | UL |
| Nylon | 16-14 | 5/16 | UL |
| Nylon | 16-14 | 3/8 | UL |
| Nylon | 16-14 | 1/2 | NON-UL |
| Nylon | 16-14 | #10 | |
| Nylon | 16-14 | #6 | UL |
| Nylon | 16-14 | #8 | |
| Nylon | #6 | 1/4 | UL |
| Nylon | #6 | 5/16 | UL |
| Nylon | #6 | 3/8 | UL |
| Nylon | #6 | 1/2 | NON-UL |
| Nylon | #4 | 1/4 | UL |
| Nylon | #4 | 5/16 | UL |
| Nylon | #4 | 3/8 | UL |
| Nylon | #4 | 1/2 | UL |
| Nylon | #2 | 1/4 | UL |
| Nylon | #2 | 5/16 | UL |
| Nylon | #2 | 3/8 | UL |
| Nylon | #2 | 1/2 | NON-UL |
| Nylon | 12-10 | 1/4 | |
| Nylon | 12-10 | 5/16 | UL |
| Nylon | 12-10 | 3/8 | UL |
| Nylon | 12-10 | 1/2 | NON-UL |
| Nylon | 12-10 | #10 | |
| Nylon | 12-10 | #6 | UL |
| Nylon | 12-10 | #8 | UL |
| Nylon | 8 | 1/4 | UL |
| Nylon | 8 | 5/16 | UL |
| Nylon | 8 | 3/8 | UL |
| Nylon | 8 | #10 | UL |

| | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|
| LENGTH (IN) | WIDTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 1.094 | 0.456 | --- | --- | **R22-14N** | 100 | **R22-14N-BULK** | 1000 |
| 1.094 | 0.456 | --- | --- | **R22-56N** | 100 | **R22-56N-BULK** | 1000 |
| 1.248 | 0.535 | --- | --- | **R22-38N** | 100 | **R22-38N-BULK** | 1000 |
| 0.866 | 0.314 | --- | --- | **R22-10N** | 100 | **R22-10N-BULK** | 1000 |
| 0.953 | 0.264 | --- | --- | **R22-4N** | 100 | **R22-4N-BULK** | 1000 |
| 0.866 | 0.314 | --- | --- | **R22-6N** | 100 | **R22-6N-BULK** | 1000 |
| 0.866 | 0.314 | --- | --- | **R22-8N** | 100 | **R22-8N-BULK** | 1000 |
| 1.102 | 0.472 | --- | --- | **R16-14N** | 100 | **R16-14N-BULK** | 1000 |
| 0.807 | 0.529 | --- | --- | **R16-56N** | 100 | **R16-56N-BULK** | 1000 |
| 1.248 | 0.535 | --- | --- | **R16-38N** | 100 | **R16-38N-BULK** | 1000 |
| 1.44 | 0.755 | --- | --- | **R16-50N** | 100 | **R16-50N-BULK** | 1000 |
| 0.905 | 0.334 | --- | --- | **R16-10N** | 100 | **R16-10N-BULK** | 1000 |
| 0.995 | 0.31 | --- | --- | **R16-6N** | 100 | **R16-6N-BULK** | 1000 |
| 0.905 | 0.334 | --- | --- | **R16-8N** | 100 | **R16-8N-BULK** | 1000 |
| 1.355 | 0.48 | --- | --- | **R6-14N** | 50 | **R6-14N-BULK** | 250 |
| 1.355 | 0.64 | --- | --- | **R6-56N** | 50 | **R6-56N-BULK** | 250 |
| 1.355 | 0.64 | --- | --- | **R6-38N** | 50 | **R6-38N-BULK** | 250 |
| 1.447 | 0.832 | --- | --- | **R6-50N** | 50 | **R6-50N-BULK** | 250 |
| 1.85 | 0.475 | --- | --- | **R4-14N** | 25 | **R4-14N-BULK** | 100 |
| 1.85 | 0.475 | --- | --- | **R4-56N** | 25 | **R4-56N-BULK** | 100 |
| 1.95 | 0.668 | --- | --- | **R4-38N** | 25 | **R4-38N-BULK** | 100 |
| 1.95 | 0.668 | --- | --- | **R4-50N** | 25 | **R4-50N-BULK** | 100 |
| 1.821 | 0.645 | --- | --- | **R2-14N** | 25 | **R2-14N-BULK** | 100 |
| 1.821 | 0.645 | --- | --- | **R2-56N** | 25 | **R2-56N-BULK** | 100 |
| 1.821 | 0.645 | --- | --- | **R2-38N** | 25 | **R2-38N-BULK** | 100 |
| 2.202 | 0.863 | --- | --- | **R2-50N** | 25 | **R2-50N-BULK** | 100 |
| 1.161 | 0.472 | --- | --- | **R12-14N** | 50 | **R12-14N-BULK** | 500 |
| 1.346 | 0.59 | --- | --- | **R12-56N** | 50 | **R12-56N-BULK** | 500 |
| 1.346 | 0.59 | --- | --- | **R12-38N** | 50 | **R12-38N-BULK** | 500 |
| 1.519 | 0.755 | --- | --- | **R12-50N** | 50 | **R12-50N-BULK** | 500 |
| 1.023 | 0.374 | --- | --- | **R12-10N** | 50 | **R12-10N-BULK** | 500 |
| 1.023 | 0.374 | --- | --- | **R12-6N** | 50 | **R12-6N-BULK** | 500 |
| 1.023 | 0.374 | --- | --- | **R12-8N** | 50 | **R12-8N-BULK** | 500 |
| 1.39 | 0.468 | --- | --- | **R8-14N** | 50 | **R8-14N-BULK** | 250 |
| 1.39 | 0.468 | --- | --- | **R8-56N** | 50 | **R8-56N-BULK** | 250 |
| 1.51 | 0.588 | --- | --- | **R8-38N** | 50 | **R8-38N-BULK** | 250 |
| 1.39 | 0.468 | --- | --- | **R8-10N** | 50 | **R8-10N-BULK** | 500 |

# Male & Female Plugs Plier Tap and Pin Terminal, Male/Female Adapter

## PM, PF, PTC, PT SERIES

## FEATURES

### UN-INSULATED/ NYLON:

Electro tin plated copper, nylon 600V, 75 °C.



| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Plugs Male | Un-insulated | 22-18 | 0.157 | NON-UL |
| Plugs Male | Un-insulated | 16-14 | 0.157 | NON-UL |
| Plugs Male | Nylon | 22-18 | 0.157 | UL |
| Plugs Male | Nylon | 16-14 | 0.157 | UL |

### UN-INSULATED/ NYLON:

Female plug style with safety & reliability.

Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.



| | | | | |
|---|---|---|---|---|
| Plugs Female | Un-insulated | 22-18 | 0.157 | NON-UL |
| Plugs Female | Un-insulated | 16-14 | 0.157 | NON-UL |
| Plugs Female | Nylon | 22-18 | 0.157 | UL |
| Plugs Female | Nylon | 22-18 | 0.157 | NON-UL |
| Plugs Female | Nylon | 16-14 | 0.157 | UL |
| Plugs Female | Nylon | 16-14 | 0.157 | NON-UL |
| Plugs Female | Nylon | 16-14 | 0.197 | NON-UL |

### VINYL:

Insulation piercing tap.

Electro tin plated copper with brazed seam, Vinyl (PVC), 600V, 75 °C



| | | | |
|---|---|---|---|
| Plier Tap Connector | Vinyl | 22-18 | n/a |
| Plier Tap Connector | Vinyl | 16-14 | n/a |
| Plier Tap Connector | Vinyl | 12-10 | n/a |

### VINYL:

Pin terminal style designed for use in terminal blocks.

Electro tin plated copper with brazed seam, 600V, 105 °C.

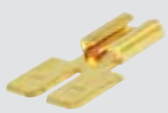


| | | | |
|---|---|---|---|
| Pin Terminal | Vinyl | 22-18 | n/a |
| Pin Terminal | Vinyl | 16-14 | n/a |
| Pin Terminal | Vinyl | 12-10 | n/a |

### UN-INSULATED:

Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Brass, Quick disconnect, Easy-entry, 600V, 105 °C.



| | | | |
|---|---|---|---|
| Male Female Adapter | Un-insulated | n/a | 0.250 |
| Male Female Adapter | Un-insulated | n/a | 0.250 |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.630 | 0.145 | – | --- | --- | --- | **PM22-157** | 100 | **PM22-157-BULK** | 1000 |
| 0.630 | 0.136 | – | --- | --- | --- | **PM16-157** | 100 | **PM16-157-BULK** | 1000 |
| 0.890 | 0.145 | – | --- | --- | --- | **PM22-157N** | 100 | **PM22-157N-BULK** | 1000 |
| 0.890 | 0.145 | – | --- | --- | --- | **PM16-157N** | 100 | **PM16-157N-BULK** | 1000 |
| | | | | | | | | | |
| 0.680 | 0.194 | – | --- | --- | --- | **PF22-157** | 100 | **PF22-157-BULK** | 1000 |
| 0.680 | 0.185 | – | --- | --- | --- | **PF16-157** | 100 | **PF16-157-BULK** | 1000 |
| 1.000 | 0.128 | – | --- | --- | --- | **PF22-157N** | 100 | **PF22-157N-BULK** | 1000 |
| 1.234 | 0.309 | – | --- | --- | --- | **PFS22-157N** | 100 | **PFS22-157N-BULK** | 1000 |
| 1.000 | 0.150 | – | --- | --- | --- | **PF16-157N** | 100 | **PF16-157N-BULK** | 1000 |
| 1.233 | 0.339 | – | --- | --- | --- | **PFS16-157N** | 100 | **PFS16-157N-BULK** | 1000 |
| 1.233 | 0.339 | – | --- | --- | --- | **PFS16-197N** | 100 | **PFS16-197N-BULK** | 1000 |
| | | | | | | | | | |
| 0.790 | 0.550 | – | --- | --- | --- | **PTC22-18** | 100 | **PTC22-18-BULK** | 500 |
| 0.790 | 0.550 | – | --- | --- | --- | **PTC16-14** | 100 | **PTC16-14-BULK** | 500 |
| 0.800 | 0.740 | – | --- | --- | --- | **PTC12-10** | 50 | **PTC12-10-BULK** | 250 |
| | | | | | | | | | |
| 0.930 | 0.078 | – | --- | --- | --- | **PT-22V** | 100 | **PT-22V-BULK** | 1000 |
| 0.930 | 0.078 | – | --- | --- | --- | **PT-16V** | 100 | **PT-16V-BULK** | 1000 |
| 1.120 | 0.107 | – | --- | --- | --- | **PT-12V** | 50 | **PT-12V-BULK** | 500 |
| | | | | | | | | | |
| 0.825 | 0.564 | – | – | --- | --- | **250-3-Z** | 100 | **250-3-Z-BULK** | 1000 |
| 0.825 | 0.564 | **DMT250-3-S** | 15 | **DMT250-3-P** | 60 | **DMT250-3** | 100 | **DMT250-3-BULK** | 1000 |

# High Temperature Spade, Ring, Piggyback & Disconnect

## HT SERIES

## FEATURES

**UN-INSULATED:**
Spade style terminal, Nickel plated copper, brazed seam, 900 °F

**UN-INSULATED:**
Ring style terminal, Nickel plated copper, brazed seam, 900 °F

**UN-INSULATED:**
Turned up edges give this spade more safety and reliability.

**UN-INSULATED:**
Male disconnect

**UN-INSULATED:**
Female flag style terminal

**UN-INSULATED:**
Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Female quick disconnect with brazed seam, 600V, 105 °C.













| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Spade | Un-insulated | 12-10 | #10 | |
| Ring | Un-insulated | 22-18 | #10 | UL |
| Ring | Un-insulated | 22-18 | #6 | NON-UL |
| Ring | Un-insulated | 22-18 | #8 | UL |
| Ring | Un-insulated | 16-14 | #10 | UL |
| Ring | Un-insulated | 16-14 | #6 | UL |
| Ring | Un-insulated | 16-14 | #8 | UL |
| Ring | Un-insulated | 12-10 | 1/4 | NON-UL |
| Ring | Un-insulated | 12-10 | #10 | UL |
| Ring | Un-insulated | 12-10 | #8 | NON-UL |
| Piggyback | Un-insulated | 16-14 | 0.250 | |
| Disconnect Male | Un-insulated | 12-10 | 0.250 | |
| Disconnect Female Flag | Un-insulated | 16-14 | 0.250 | |
| Disconnect Female Flag | Un-insulated | 12-10 | 0.250 | |
| Disconnect Female | Un-insulated | 16-14 | 0.250 | |
| Disconnect Female | Un-insulated | 12-10 | 0.250 | |
| Disconnect Female | Un-insulated | 8 | 0.250 | |



| L (IN) | W (IN) | "S" PACKS CAT. NO. | QTY | PRO PACKS CAT. NO. | QTY | STD PACKS CAT. NO. | QTY | BULK PACKS CAT. NO. | QTY |
|---|---|---|---|---|---|---|---|---|---|
| 0.499 | 0.384 | **HTS12-10-S** | 15 | – | – | – | --- | **HTS12-10-BULK** | 1000 |
| 0.443 | 0.325 | – | – | – | – | **HTR22-10** | 100 | **HTR22-10-BULK** | 1000 |
| 0.443 | 0.270 | – | – | – | – | **HTR22-6** | 100 | **HTR22-6-BULK** | 1000 |
| 0.411 | 0.270 | – | – | – | – | **HTR22-8** | 100 | **HTR22-8-BULK** | 1000 |
| 0.450 | 0.384 | – | – | **HTR16-10-P** | 100 | **HTR16-10** | 100 | **HTR16-10-BULK** | 1000 |
| 0.470 | 0.345 | – | – | – | – | **HTR16-6** | 100 | **HTR16-6-BULK** | 1000 |
| 0.444 | 0.390 | – | – | – | – | **HTR16-8** | 100 | **HTR16-8-BULK** | 1000 |
| 0.616 | 0.482 | – | – | – | – | **HTR12-14** | 50 | **HTR12-14-BULK** | 1000 |
| 0.530 | 0.384 | – | – | **HTR12-10-P** | 60 | **HTR12-10** | 50 | **HTR12-10-BULK** | 1000 |
| 0.530 | 0.384 | – | – | – | – | **HTR12-8** | 50 | **HTR12-8-BULK** | 1000 |
| 0.625 | 0.291 | – | – | – | – | **HTP16-250-3** | --- | **HTP16-250-3-BULK** | 1000 |
| 0.685 | 0.250 | – | – | – | – | **HTM12-250-3** | 50 | **HTM12-250-3-BULK** | 1000 |
| 0.506 | 0.312 | – | – | **HTSF16-250-3-P** | 60 | **HTSF16-250-3** | 60 | **HTSF16-250-3-BULK** | 1000 |
| 0.587 | 0.294 | – | – | **HTSF12-250-3-P** | 50 | **HTSF12-250-3** | 50 | **HTSF12-250-3-BULK** | 1000 |
| 0.500 | 0.250 | **HTF16-250-3-S** | 15 | **HTF16-250-3-P** | 60 | **HTF16-250-3** | 50 | **HTF16-250-3-BULK** | 1000 |
| 0.690 | 0.304 | **HTF12-250-3-S** | 15 | | | – | --- | **HTF12-250-3-BULK** | 500 |
| 0.715 | 0.304 | – | – | **HTF8-250-3-P** | – | **HTF8-250-3** | 25 | **HTF8-250-3-BULK** | 1000 |

# Male Disconnects: Fully Insulated & Male/ Female Adapter

## M, IM, FCT SERIES

## FEATURES

### VINYL:
Electro tin plated, vinyl (PVC) 300V, 75 °C. Brazed seam, Male disconnect

### UN-INSULATED:
Electro tin plated copper, 600V, 105 °C. Brazed seam, Male disconnect

### NYLON:
Fully insulated male disconnect. Brazed seam, nylon, 300V, 105 °C.

### UN-INSULATED-BARE:
Turned up edges give this quick disconnect adaptor more safety and reliability.
600V, 105 °C.









| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Male Fully Insulated Barrel | Vinyl | 22-18 | 0.250 | |
| Male Fully Insulated Barrel | Vinyl | 16-14 | 0.187 | |
| Male Fully Insulated Barrel | Vinyl | 16-14 | 0.250 | |
| Male Fully Insulated Barrel | Vinyl | 12-10 | 0.250 | |
| Un-Insulated Male Barrel | Un-insulated | 16-14 | 0.187 | NON-UL |
| Un-Insulated Male Barrel | Un-insulated | 16-14 | 0.250 | NON-UL |
| Un-Insulated Male Barrel | Un-insulated | 12-10 | 0.250 | NON-UL |
| Male Fully Insulated | Nylon | 22-18 | 0.250 | |
| Male Fully Insulated | Nylon | 22-18 | 0.250 | UL |
| Male Fully Insulated | Nylon | 16-14 | 0.187 | |
| Male Fully Insulated | Nylon | 16-14 | 0.250 | |
| Male Fully Insulated | Nylon | 16-14 | 0.250 | |
| Male Fully Insulated | Nylon | 12-10 | 0.250 | |
| Male Fully Insulated | Nylon | 12-10 | 0.250 | UL |
| | | | | |
| Male/Female Adapter | Un-insulated | 12-10 | 0.250 | |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.834 | 0.249 | **M22-250-3V-S** | 25 | – | – | **M22-250-3V** | 100 | **M22-250-3V-BULK** | 1000 |
| 0.755 | 0.188 | – | – | – | – | **M16-187-2V** | 100 | **M16-187-2V-BULK** | 1000 |
| 0.834 | 0.249 | **M16-250-3V-S** | 30 | **M16-250-3V-P** | 100 | **M16-250-3V** | 100 | **M16-250-3V-BULK** | 1000 |
| 0.933 | 0.249 | **M12-250-3V-S** | 25 | **M12-250-3V-P** | 50 | **M12-250-3V** | 50 | **M12-250-3V-BULK** | 500 |
| 0.630 | 0.240 | – | – | – | – | **M16-187-2** | 100 | **M16-187-2-BULK** | 1000 |
| 0.630 | 0.240 | – | – | – | – | **M16-250-3** | 100 | **M16-250-3-BULK** | 1000 |
| 0.765 | 0.250 | – | – | – | – | **M12-250-3** | 50 | **M12-250-3-BULK** | 1000 |
| 0.925 | 0.249 | – | – | – | – | **IM22-250-3N** | 100 | **IM22-250-3N-BULK** | 1000 |
| 0.904 | 0.249 | – | – | – | – | **M22-250-3N** | 100 | **M22-250-3N-BULK** | 1000 |
| 0.795 | 0.188 | – | – | – | – | **M16-187-2N** | 100 | **M16-187-2N-BULK** | 1000 |
| 0.925 | 0.249 | **IM16-250-3N-S** | 20 | **IM16-250-3N-P** | 30 | **IM16-250-3N** | 50 | **IM16-250-3N-BULK** | 1000 |
| 0.874 | 0.249 | – | – | – | – | **M16-250-3N** | 100 | **M16-250-3N-BULK** | 1000 |
| 1.062 | 0.249 | – | – | – | – | **IM12-250-3N** | 50 | **IM12-250-3N-BULK** | 500 |
| 1.061 | 0.249 | – | – | – | – | **M12-250-3N** | 50 | **M12-250-3N-BULK** | 500 |
| | | | | | | | | | |
| 0.529 | 0.549 | **FCT12-250-3-S** | 10 | – | – | **FCT12-250-3** | 50 | **FCT12-250-3-BULK** | 1000 |

# Female Disconnects: Piggyback, Sleeved Barrel & Fully Insulated

## P, IFS, IF SERIES

## FEATURES

### VINYL/ UN-INSULATED/ NYLON:

Electro tin plated copper, 600V, 105 °C, Vinyl



### NYLON:

Electro tin plated copper, 600V, 105 °C, Nylon, Female fully insulated quick disconnect with seamed barrel.



### NYLON:

Female, fully insulated quick disconnect with brazed seam 600V, 105 °C, Nylon



| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Female Piggyback | Vinyl | 22-18 | 0.250 | |
| Female Piggyback | Vinyl | 16-14 | 0.250 | |
| Female Piggyback | Vinyl | 12-10 | 0.250 | UL |
| Female Piggyback | Un-insulated | 16-14 | 0.250 | |
| Female Piggyback | Nylon | 22-18 | 0.250 | |
| Female Piggyback | Nylon | 16-14 | 0.250 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 22-18 | 0.110 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 22-18 | 0.110 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 22-18 | 0.250 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 16-14 | 0.250 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 12-10 | 0.250 | |
| Female Fully Insulated | Nylon | 22-18 | 0.110 | UL |
| Female Fully Insulated | Nylon | 22-18 | 0.110 | UL |
| Female Fully Insulated | Nylon | 22-18 | 0.187 | UL |
| Female Fully Insulated | Nylon | 22-18 | 0.187 | UL |
| Female Fully Insulated | Nylon | 22-18 | 0.250 | |
| Female Fully Insulated | Nylon | 16-14 | 0.187 | |
| Female Fully Insulated | Nylon | 16-14 | 0.187 | UL |
| Female Fully Insulated | Nylon | 16-14 | 0.250 | |
| Female Fully Insulated | Nylon | 16-14 | 0.250 | NON-UL |
| Female Fully Insulated | Nylon | 12-10 | 0.250 | |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.826 | 0.259 | – | – | – | – | P22-250-3V | 100 | P22-250-3V-BULK | 1000 |
| 0.826 | 0.259 | P16-250-3V-S | 15 | P16-250-3V-P | 40 | P16-250-3V | 100 | P16-250-3V-BULK | 1000 |
| 1.010 | 0.250 | – | – | – | – | P12-250-3V | 50 | P12-250-3V-BULK | 500 |
| 0.677 | 0.295 | – | --- | – | --- | P16-250-3 | 100 | P16-250-3-BULK | 1000 |
| 0.866 | 0.259 | – | | – | --- | P22-250-3N | 100 | P22-250-3N-BULK | 1000 |
| 0.866 | 0.259 | – | – | – | – | P16-250-3N | 100 | P16-250-3N-BULK | 1000 |
| | | | | | | | | | |
| 0.800 | 0.230 | – | – | – | – | IFS22-110-2N | 100 | IFS22-110-2N-BULK | 1000 |
| 0.800 | 0.230 | – | – | – | – | IFS22-110-3N | 100 | IFS22-110-3N-BULK | 1000 |
| 0.890 | 0.380 | – | – | – | – | IFS22-250-3N | 100 | IFS22-250-3N-BULK | 1000 |
| 0.890 | 0.380 | – | – | – | – | IFS16-250-3N | 100 | IFS16-250-3N-BULK | 1000 |
| 1.040 | 0.380 | – | – | – | – | IFS12-250-3N | 50 | IFS12-250-3N-BULK | 500 |
| | | | | | | | | | |
| 0.800 | 0.230 | – | – | – | – | IF22-110-2N | 100 | IF22-110-2N-BULK | 1000 |
| 0.800 | 0.230 | – | – | – | – | IF22-110-3N | 100 | IF22-110-3N-BULK | 1000 |
| 0.780 | 0.320 | – | – | – | – | IF22-187-2N | 100 | IF22-187-2N-BULK | 1000 |
| 0.780 | 0.320 | – | – | – | – | IF22-187-3N | 100 | IF22-187-3N-BULK | 1000 |
| 0.866 | 0.259 | – | – | – | – | IF22-250-3N | 100 | IF22-250-3N-BULK | 1000 |
| 0.780 | 0.320 | – | – | – | – | IF16-187-2N | 100 | IF16-187-2N-BULK | 1000 |
| 0.780 | 0.320 | – | – | – | – | IF16-187-3N | 100 | IF16-187-3N-BULK | 1000 |
| 0.866 | 0.259 | IF16-250-3N-S | 12 | IF16-250-3N-P | 50 | IF16-250-3N | 100 | IF16-250-3N-BULK | 1000 |
| 0.955 | 0.395 | IF16-250-3N-IG-S | 10 | – | – | IF16-250-3N-IG | 100 | IF16-250-3N-IG-BULK | 1000 |
| 0.964 | 0.259 | IF12-250-3N-S | 12 | IF12-250-3N-P | 30 | IF12-250-3N | 50 | IF12-250-3N-BULK | 500 |

# Female Flag & Fully Insulated Flag, Two-Way Receptacle

## IFL, SF, DFR SERIES

## FEATURES

**NYLON:**
Electro tin plated copper, 600V, 105 °C. Female flag style fully insulated quick disconnect

**UN-INSULATED:**
Electro tin plated copper, 600V, 105 °C.

**NYLON:**
Turned up edges give this splice more safety and reliability.
600V, 105 °C.







| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Female Flag Fully Insulated | Nylon | 22-18 | 0.250 | |
| Female Flag Fully Insulated | Nylon | 16-14 | 0.250 | |
| Female Flag Fully Insulated | Nylon | 12-10 | 0.250 | |
| Female Flag | Un-insulated | 22-18 | 0.250 | UL |
| Female Flag | Un-insulated | 16-14 | 0.187 | UL |
| Female Flag | Un-insulated | 16-14 | 0.250 | |
| Female Flag | Un-insulated | 12-10 | 0.250 | |
| Female Flag | Un-insulated | 12-10 | 0.250 | NON-UL |
| 2 Way Receptacle | Nylon | n/a | 0.157 | |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.630 | 0.236 | – | – | – | – | **IFL22-250-3N** | 100 | **IFL22-250-3N-BULK** | 1000 |
| 0.630 | 0.390 | – | – | – | – | **IFL16-250-3N** | 100 | **IFL16-250-3N-BULK** | 1000 |
| 0.667 | 0.311 | **IFL12-250-3N-S** | 12 | **IFL12-250-3N-P** | 30 | **IFL12-250-3N** | 50 | **IFL12-250-3N-BULK** | 500 |
| | | | | | | | | | |
| 0.539 | 0.312 | – | – | – | – | **SF22-250-3** | 100 | **SF22-250-3-BULK** | 1000 |
| 0.539 | 0.312 | – | --- | **SF16-187-2-P** | – | **SF16-187-2** | 100 | **SF16-187-2-BULK** | 1000 |
| 0.539 | 0.312 | **SF16-250-3-S** | 20 | – | – | **SF16-250-3** | 100 | **SF16-250-3-BULK** | 1000 |
| 0.582 | 0.259 | **SF12-250-3-S** | 15 | – | – | **SF12-250-3** | 50 | **SF12-250-3-BULK** | 1000 |
| 0.570 | 0.320 | – | – | – | – | **SF12-250-3-SP** | 50 | **SF12-250-3-SP-BULK** | 1000 |
| | | | | | | | | | |
| – | | – | – | – | – | **DFR-157N** | 100 | **DFR-157N-BULK** | 1000 |

# Female Disconnects

## F SERIES

## FEATURES

### VINYL:

Electro tin plated copper, 600V, 105 °C. Female, quick disconnect, Vinyl



### UN-INSULATED-BARE:

Electro tin plated copper, 600V, 105 °C. Female quick disconnect



### NYLON:

Turned up edges give this disconnect more safety and reliability.
600V, 105 °C, Nylon



| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Female | Vinyl | 22-18 | 0.110 | |
| Female | Vinyl | 22-18 | 0.110 | UL |
| Female | Vinyl | 22-18 | 0.187 | |
| Female | Vinyl | 22-18 | 0.187 | UL |
| Female | Vinyl | 22-18 | 0.250 | |
| Female | Vinyl | 16-14 | 0.110 | UL |
| Female | Vinyl | 16-14 | 0.110 | UL |
| Female | Vinyl | 16-14 | 0.187 | |
| Female | Vinyl | 16-14 | 0.187 | |
| Female | Vinyl | 16-14 | 0.250 | |
| Female | Vinyl | 12-10 | 0.250 | |
| Female | Un-insulated | 22-18 | 0.110 | UL |
| Female | Un-insulated | 22-18 | 0.110 | UL |
| Female | Un-insulated | 22-18 | 0.187 | UL |
| Female | Un-insulated | 22-18 | 0.187 | UL |
| Female | Un-insulated | 22-18 | 0.250 | |
| Female | Un-insulated | 16-14 | 0.110 | UL |
| Female | Un-insulated | 16-14 | 0.110 | |
| Female | Un-insulated | 16-14 | 0.187 | UL |
| Female | Un-insulated | 16-14 | 0.187 | UL |
| Female | Un-insulated | 16-14 | 0.250 | |
| Female | Un-insulated | 12-10 | 0.250 | |
| Female | Un-insulated | 8 | 0.250 | NON-UL |
| Female | Nylon | 22-18 | 0.110 | NON-UL |
| Female | Nylon | 22-18 | 0.110 | UL |
| Female | Nylon | 22-18 | 0.187 | UL |
| Female | Nylon | 22-18 | 0.187 | UL |
| Female | Nylon | 22-18 | 0.250 | |
| Female | Nylon | 16-14 | 0.110 | UL |
| Female | Nylon | 16-14 | 0.110 | UL |
| Female | Nylon | 16-14 | 0.187 | UL |
| Female | Nylon | 16-14 | 0.187 | |
| Female | Nylon | 16-14 | 0.250 | |
| Female | Nylon | 12-10 | 0.250 | |

| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.728 | 0.125 | – | – | – | – | F22-110-2V | 100 | F22-110-2V-BULK | 1000 |
| 0.789 | 0.170 | – | – | – | – | F22-110-3V | 100 | F22-110-3V-BULK | 1000 |
| 0.748 | 0.196 | – | – | – | – | F22-187-2V | 100 | F22-187-2V-BULK | 1000 |
| 0.789 | 0.250 | – | – | – | – | F22-187-3V | 100 | F22-187-3V-BULK | 1000 |
| 0.826 | 0.259 | F22-250-3V-S | 25 | F22-250-3V-P | 80 | F22-250-3V | 100 | F22-250-3V-BULK | 1000 |
| 0.789 | 0.170 | – | – | – | – | F16-110-2V | 100 | F16-110-2V-BULK | 1000 |
| 0.789 | 0.170 | – | – | – | – | F16-110-3V | 100 | F16-110-3V-BULK | 1000 |
| 0.748 | 0.196 | F16-187-2V-S | 25 | – | – | F16-187-2V | 100 | F16-187-2V-BULK | 1000 |
| 0.748 | 0.196 | – | – | – | – | F16-187-3V | 100 | F16-187-3V-BULK | 1000 |
| 0.826 | 0.259 | F16-250-3V-S | 25 | F16-250-3V-P | 70 | F16-250-3V | 100 | F16-250-3V-BULK | 1000 |
| 0.925 | 0.259 | F12-250-3V-S | | F12-250-3V-P | 50 | F12-250-3V | 50 | F12-250-3V-BULK | 500 |
| 0.550 | 0.150 | – | – | – | – | F22-110-2 | 100 | F22-110-2-BULK | 1000 |
| 0.554 | 0.150 | – | – | – | – | F22-110-3 | 100 | F22-110-3-BULK | 1000 |
| 0.565 | 0.233 | – | – | – | – | F22-187-2 | 100 | F22-187-2-BULK | 1000 |
| 0.565 | 0.233 | – | – | – | – | F22-187-3 | 100 | F22-187-3-BULK | 1000 |
| 0.629 | 0.259 | – | – | F22-250-3-P | 100 | F22-250-3 | 100 | F22-250-3-BULK | 1000 |
| 0.557 | 0.149 | – | – | – | – | F16-110-2 | 100 | F16-110-2-BULK | 1000 |
| 0.531 | 0.125 | – | – | – | – | F16-110-3 | 100 | F16-110-3-BULK | 1000 |
| 0.556 | 0.233 | – | – | – | – | F16-187-2 | 100 | F16-187-2-BULK | 1000 |
| 0.559 | 0.233 | – | – | – | – | F16-187-3 | 100 | F16-187-3-BULK | 1000 |
| 0.629 | 0.259 | – | – | F16-250-3-P | 125 | F16-250-3 | 100 | F16-250-3-BULK | 1000 |
| 0.669 | 0.259 | – | – | – | – | F12-250-3 | 50 | F12-250-3-BULK | 500 |
| 0.665 | 0.320 | – | – | – | – | F8-250-3 | 50 | F8-250-3-BULK | 1000 |
| 0.789 | 0.163 | – | – | – | – | F22-110-2N | 100 | F22-110-2N-BULK | 1000 |
| 0.789 | 0.210 | – | – | – | – | F22-110-3N | 100 | F22-110-3N-BULK | 1000 |
| 0.789 | 0.125 | – | – | – | – | F22-187-2N | 100 | F22-187-2N-BULK | 1000 |
| 0.789 | 0.125 | – | – | – | – | F22-187-3N | 100 | F22-187-3N-BULK | 1000 |
| 0.866 | 0.259 | – | – | – | – | F22-250-3N | 100 | F22-250-3N-BULK | 1000 |
| 0.789 | 0.163 | – | – | – | – | F16-110-2N | 100 | F16-110-2N-BULK | 1000 |
| 0.789 | 0.163 | – | – | – | – | F16-110-3N | 100 | F16-110-3N-BULK | 1000 |
| 0.789 | 0.238 | – | – | – | – | F16-187-2N | 100 | F16-187-2N-BULK | 1000 |
| 0.787 | 0.196 | – | – | – | – | F16-187-3N | 100 | F16-187-3N-BULK | 1000 |
| 0.866 | 0.259 | – | – | – | – | F16-250-3N | 100 | F16-250-3N-BULK | 1000 |
| 0.944 | 0.259 | – | – | – | – | F12-250-3N | 50 | F12-250-3N-BULK | 500 |

MINITERMS

# Vinyl Insulated Miniterm Kit

## MTK, MTK-2

## FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Reusable.
- Crimping tool included with MTK-2

| 1 | 2 |
|---|---|
|  |  |

## RATINGS

c UL us LISTED
QUICK CONNECT TERMINALS
E345884
3DF8

c UL us LISTED
WIRE CONNECTOR
E155027
82GF

**Vinyl Insulated:** 300V, 75 °C.
**Nylon Insulated:** 600V, 105 °C.

| CAT. NO. | KIT CONTENTS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| | PART NO. | QTY. | PART NO. | QTY. | PART NO. | QTY. | |
| MTK | R22-6V | 40 | F22-250-3V | 40 | S22-6V | 40 | 12 |
| | R22-10V | 40 | F16-250-3V | 35 | S22-10V | 35 | |
| | R16-6V | 30 | F12-250-3V | 20 | S16-6V | 20 | |
| | R16-10V | 30 | B22-V | 35 | S16-10V | 35 | |
| | R12-8V | 20 | B16-V | 25 | S12-8V | 25 | |
| | R12-14V | 20 | B12-V | 15 | S12-14V | 15 | |
| MTK-2 | R22-6V | 10 | S22-8V | 10 | B22-V | 10 | 12 |
| | R22-8V | 10 | S22-10V | 10 | B16-V | 10 | |
| | R22-10V | 10 | S16-8V | 10 | B12-V | 10 | |
| | R16-6V | 10 | S16-10V | 10 | F22-250-3V | 10 | |
| | R16-8V | 10 | S12-10V | 5 | F16-250-3V | 10 | |
| | R16-10V | 10 | M22-250-3V | 10 | Crimping tool included | 1 | |
| | R12-10V | 5 | M16-250-3V | 10 | | | |





nsi INDUSTRIES

MINITERMS

# Vinyl Insulated Miniterm Kit

MTKL-100





## FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number ending in "N" is nylon insulated.
- Reusable.
- Crimping tool included.

## RATINGS

c UL us LISTED
QUICK CONNECT TERMINALS
E345884
3DF8

c UL us LISTED
WIRE CONNECTOR
E155027
82GF

| CAT. NO. | KIT CONTENTS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| | PART NO. | QTY. | PART NO. | QTY. | PART NO. | QTY. | |
| MTKL-100 | TL-5-1 | 1 | C12-N | 2 | M12-250-3V | 2 | 5 |
| | R12-10V | 5 | C16-N | 4 | M16-250-3V | 2 | |
| | R16-10V | 10 | C2-N | 5 | M22-250-3V | 2 | |
| | R22-10V | 10 | B12-V | 6 | F12-250-3V | 2 | |
| | S12-10V | 5 | B16-V | 10 | F16-250-3V | 2 | |
| | S16-10V | 10 | B22-V | 10 | F22-250-3V | 2 | |
| | S22-10V | 10 | | | | | |

MINITERMS

# Vinyl Insulated Miniterm Kit

MTK-175




## FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Reusable.

## RATINGS

c UL us LISTED
QUICK CONNECT TERMINALS
E345884
3DF8

c UL us LISTED
WIRE CONNECTOR
E155027
82GF

**Vinyl Insulated:** 300V, 75 °C.
**Nylon Insulated:** 600V, 105 °C.

| CAT. NO. | KIT CONTENTS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| | PART NO. | QTY. | PART NO. | QTY. | PART NO. | QTY. | |
| MTK-175 | B12-V | 4 | R16-6V | 11 | S16-10V | 11 | 5 |
| | B16-V | 11 | R16-8V | 11 | S22-8V | 11 | |
| | B22-V | 11 | R16-10V | 11 | S22-10V | 11 | |
| | R12-10V | 4 | R16-14V | 9 | M16-250-3V | 11 | |
| | R12-38V | 4 | S16-6V | 11 | F16-250-3V | 11 | |
| | R22-10V | 11 | S16-8V | 11 | F22-250-3V | 11 | |

# MINITERMS
# Vinyl Insulated Miniterm Kit
## MTK-2218, MTK-1614, MTK-1210



## FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number ending in "N" is nylon insulated.
- Reusable.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

## RATINGS

c UL us LISTED
QUICK CONNECT TERMINALS
E345884
3DF8

c UL us LISTED
WIRE CONNECTOR
E155027
82GF

| CAT. NO. | FIG. NO. | KIT CONTENTS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | PART NO. | QTY. | PART NO. | QTY. | PART NO. | QTY. | |
| | 1 | R22-6V | 6 | S22-8V | 6 | IF22-250-3V | 2 | |
| **MTK-2218** | 1 | R22-8V | 6 | B22-V | 6 | M22-250-3V | 6 | 10 |
| | 1 | S22-6V | 6 | IM22-250-3V | 2 | F22-250-3V | 6 | |
| | 2 | R16-6V | 6 | F16-250-3V | 6 | B16-V | 6 | |
| **MTK-1614** | 2 | R16-8V | 6 | S16-6V | 6 | IM16-250-3N | 3 | 10 |
| | 2 | M16-250-3V | 6 | S16-8V | 6 | IF16-250-3N | 3 | |
| | 3 | R12-8V | 4 | F12-250-3V | 4 | B12-V | 4 | |
| **MTK-1210** | 3 | R12-14V | 2 | M12-250-3V | 4 | IM12-250-3N | 2 | 10 |
| | 3 | R12-38V | 2 | S12-8V | 4 | IF12-250-3N | 2 | |

MINITERMS

# Push-On & Compressor (With Wire) Terminal Kit

CTK-1, NSi 33-12

## FEATURES

**Push-On**

- Kit converts screw type terminals to push-on type.
- Contains four screws on terminal adapters.

**Compressor (With Wire)**

- Kit includes three color coded #10 AWG type AWM extra flexible lead wires (10" lengths).
- One end has a 0.250" by 0.032" female tab 12-10 quick disconnect, and the other is stripped at 5/16".

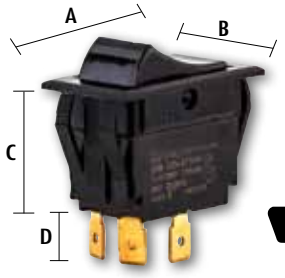
| 1 | 2 |
|---|---|
|  |  |

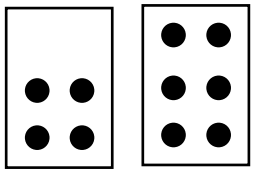
## RATINGS

c UL us

| CAT. NO. | FIG. NO. | KIT CONTENTS | STD. CTN. QTY. |
|---|---|---|---|
| **CTK-1** | 1 | 4 Screw type terminal adapters with 4 screws | 100 |
| **NSi 33-12** | 2 | 3 color coded wires and includes three 12-10 AWG shrink tube butt connectors | 1 |



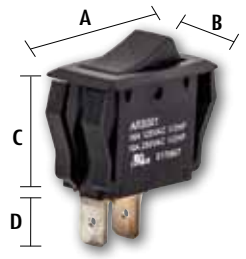


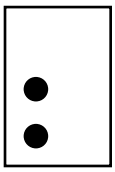



D.P.S.T D.P.D.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77010RQ** | ON-OFF | DPST | 20 | 10 | 1 1/2 @125,2 @ 250 | Non-Lighted | Black | Maintained | 0.250 Quikconnect | 5 |
| **77040RQ** | ON-ON | DPDT | 20 | 10 | 1 1/2 @125,2 @ 250 | Non-Lighted | Black | Maintained | 0.250 Quikconnect | 5 |
| **77060RQ** | ON-OFF-ON | DPDT | 20 | 10 | 1 1/2 @125,2 @ 250 | Non-Lighted | Black | Maintained | 0.250 Quikconnect | 5 |
| **77130RQ** | ON-OFF-ON | DPDT | 15 | 10 | 3/4 | Non-Lighted | Black | Momentary | 0.250 Quikconnect | 5 |
| **Dimensions (IN)** | A: 1.348 | B: 0.750 | C: 0.762 | D: 0.422 | | | | | | |



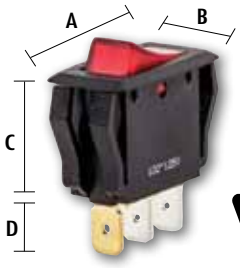



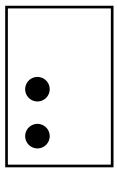
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77140RQ** | ON-OFF | SPST | 15 | 10 | – | Non-Lighted | Black | Maintained | 0.250 Quikconnect | 5 |
| **Dimensions (IN)** | A: 1.250 | B: 0.625 | C: 0.828 | D: 0.406 | | | | | | |



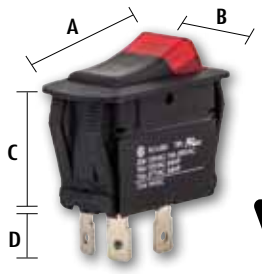


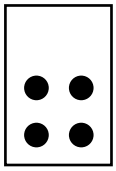



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77150RQ** | ON-OFF | SPST | 15 | 7.5 | – | – | Red | Maintained | 0.250 Quikconnect | 5 |
| **Dimensions (IN)** | A: 1.348 | B: 0.750 | C: 0.762 | D: 0.422 | | | | | | |



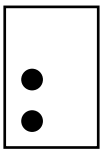
D.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77030RQ** | ON-OFF | DPST | 15 | 10 | 3/4 @ 250 | 125V Incand. | Red | – | Maintained | 0.250 Quikconnect | 5 |
| **77020RQ** | ON-OFF | DPST | 15 | 10 | 3/4 @ 250 | 125V Neon | Amber | – | Maintained | 0.250 Quikconnect | 5 |
| **Dimensions (IN)** | A: 0.426 | B: 1.088 | C: 0.709 | D: 0.345 | | | | | | |

# Rotary Switches & Miscellaneous

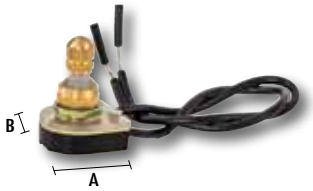


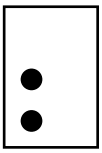



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77300RW** | ON-OFF | SPST | 3 | 1 | Non-Lighted | Rotary Canopy | – | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 0.718 | B: 0.600 | C: 0.265 | | | | | | | |



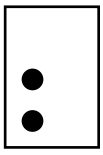



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77340RW** | ON-OFF | SPST | 6 | 3 | Non-Lighted | Rotary Canopy | – | Maintained | Wire Leads | 5 |
| **77320RW** | OFF-ON-ON-ON | SPST | 3 | 1 | Non-Lighted | Rotary Canopy | – | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 1.000 | B: 0.844 | | | | | | | | |



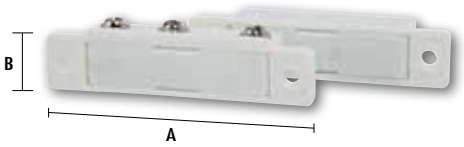



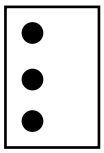
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **79100MS** | ON-OFF | SPST | 6 | 3 | – | – | – | Feed Through Switch | Screws | 5 |
| **Dimensions (IN)** | A: 0.844 | B: 0.594 | C: 1.375 | | | | | | | |





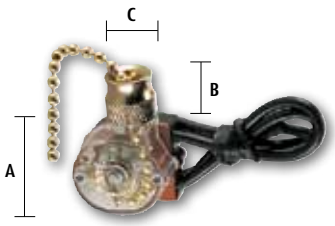



S.P.D.T

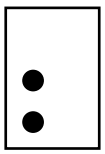
**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **79200MS** | N.C. & N.O. | SPDT | 5 | – | – | – | – | Magnetic Feed Switch | Screws | 5 |

**Dimensions (IN)** A: 2.500 B: 0.531





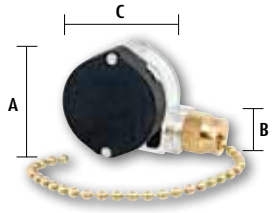



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **75101CW** | ON-OFF | SPST | 6 | 3 | – | Chain W/Cord | Brass | – | Wire Leads | 5 |
| **75102CW** | ON-OFF | SPST | 6 | 3 | – | Chain W/Cord | Nickel | – | Wire Leads | 5 |

**Dimensions (IN)** A: 1.250 B: 0.781 C: 0.594

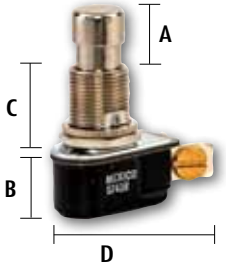


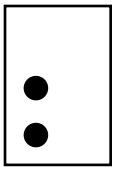



| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **75110CW** | Way/2 Circuit | SP3T | 6 | 3 | – | Chain W/Cord | Brass | – | Wire Leads | 5 |
| **75111CQ** | OFF-ON-ON-ON | SP3T | 6 | 3 | – | Chain W/Cord | Brass | – | Push In | 5 |

**Dimensions (IN)** A: 1.250 B: 1.125 C: 0.742

# Pushbutton Switches



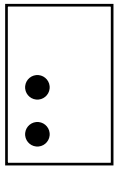



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76050PS** | PUSH-ON, PUSH-OFF | SPST | 6* | 3* | – | Pushbutton | Brass/Nickel | Maintained | Screws | 5 |
| **76040PW** | PUSH ON, PUSH OFF | SPST | 6 | 3 | 1/3 @125 | Pushbutton | Brass/Nickel | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 0.437 | B: 0.562 | C: 0.542 | D: 1.183 | | | | | | |



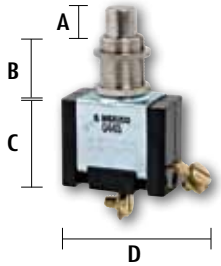



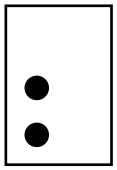
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76010PW** | PUSH ON, PUSH OFF | SPST | 10 | 5 | 1/4 @125 | Pushbutton | Nylon | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 1.003 | B: 0.612 | C: 0.550 | D: 0.993 | | | | | | |





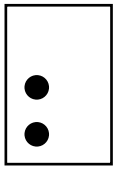



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76060PS** | PUSH ON, PUSH OFF | SPST | 15 | 10 | – | Pushbutton | Brass/Nickel | Maintained | Screws | 5 |
| **Dimensions (IN)** | A: 0.283 | B: 0.562 | C: 0.982 | D: 1.125 | | | | | | |

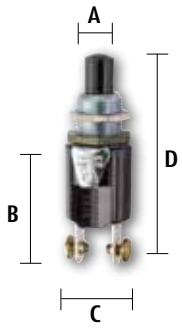


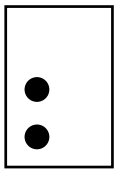



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76055PS** | ON-OFF | SPST | 6 | 3 | – | Pushbutton | Brass | Maintained | Wire Leads | 1 |
| **76056PS** | ON-OFF | SPST | 6 | 3 | – | Pushbutton | Nickel | Maintained | Wire Leads | 1 |
| **76090PW** | ON-OFF | SPST | 6 | 3 | – | Push Canopy | Brass | Maintained | Wire Leads | 5 |
| **76100PW** | ON-OFF | SPST | 6 | 3 | – | Push Canopy | Bickel | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 0.968 | B: 0.313 | C:0.858 | | | | | | | |



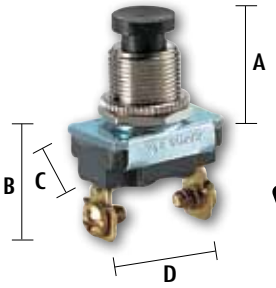



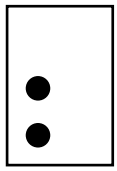
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76020PS** | OFF-ON | SPST N.O. | 3/4 | 1/4 | – | Pushbutton | Nylon | Momentary | Screws | 5 |
| **76030PS** | ON-OFF | SPST N.C. | 3/4 | 1/4 | – | Pushbutton | Nylon | Momentary | Screws | 5 |
| **Dimensions (IN)** | A: 0.460 | B: 1.070 | C: 0.650 | D: 1.950 | | | | | | |

# Pushbutton Switches

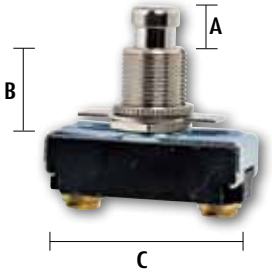


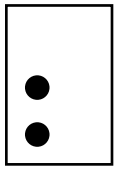



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76065PS** | OFF-ON | SPST N.O. | 3 | – | – | Pushbutton | Plastic | Momentary | Screws | 5 |
| **Dimensions (IN)** | A: .689 | B: 1.406 | C: .563 | D: .875 | | | | | | |



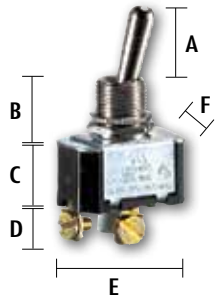
S.P.S.T

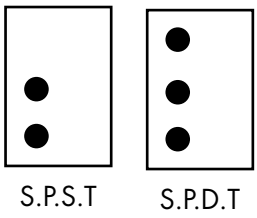
**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76070PS** | OFF-ON | SPST N.O. | 15 | 10 | – | Pushbutton | Brass/Nickel | Momentary | Screws | 5 |
| **76080PS** | ON-OFF | SPST N.C. | 15 | 10 | – | Pushbutton | Brass/Nickel | Momentary | Screws | 5 |
| **Dimensions (IN)** | A: .576 | B: .562 | C: 1.382 | | | | | | | |

# Toggle Switches: Maintained Contact Single Pole



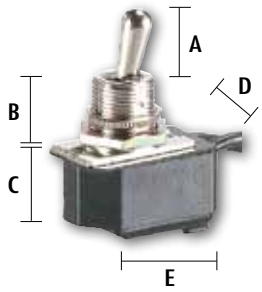


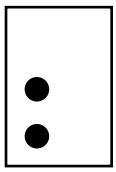




**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78110TS** | OFF-ON | SPST | 6 | 3 | – | Bat | Brass/Nickel | Screws | 5 |
| **78120TQ** | OFF-ON | SPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |
| **78210TS** | OFF-ON | SPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78200TS** | ON-ON | SPDT | 20 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78160TS** | ON-OFF-ON | SPDT | 20 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78070TQ** | ON-OFF-ON | SPDT | 20 | 10 | 3/4 | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |

**Dimensions (IN)** A: .687 B: .465 C: .670 D: .348 E: 1.134 F: .634 THREAD: 15/32-32UNS-2A KEYWAY: .072 X .038 DP



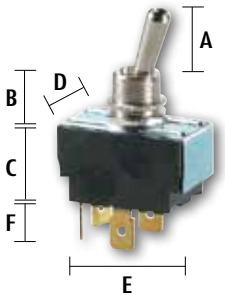

**Terminal Positions**

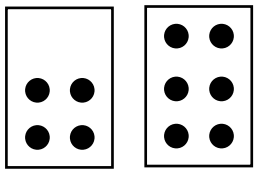
| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78150TW** | ON-OFF | SPST | 10* | 4* | – | Bat | Brass/Nickel | Wire Leads | 5 |

*Amperage and voltage are also valid for D.C. Rating

**Dimensions (IN)** A: .500 B: .469 C: .685 D: 1.093 E: 1.856 THREAD: 15/32-32 STANDARD 6" WIRE LEADS

# Toggle Switches: Maintained Contact Single & Double Pole

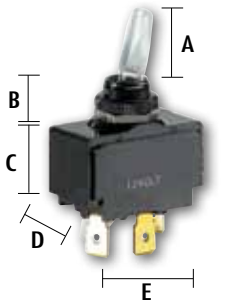


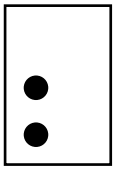




**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78220TS** | ON-OFF | DPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78130TQ** | ON-OFF | DPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |
| **78090TQ** | ON-ON | DPDT | 15 | 10 | – | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |
| **78270TS** | ON-ON | DPDT | 20 | 10 | 1½@125.2@250 | Bat | Brass/Nickel | Screws | 5 |
| **78230TS** | ON-OFF-ON | DPDT | 10 | 20 | 1 1/2 | Bat | Brass/Nickel | Screws | 5 |
| **78240TS** | OFF-ON | DPST | 15 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78250TS** | ON-OFF-ON | DPDT | 15 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78260TS** | ON-OFF-ON | DPDT | 15 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |

**Dimensions (IN)** A: 0.687 B: 0.465 C: 0.778 D: 0.750 E: 1.308 F: 0.422 THREAD: 15/32-32UNS-2A KEYWAY: 0.072 X 0.038



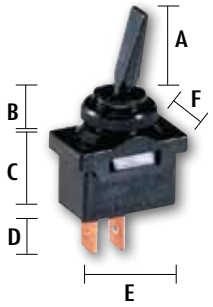

**Terminal Positions**

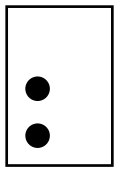
| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78065TS** | ON-OFF | SPST | 6 | 3 | – | Bat | Nickel | Screws | 5 |
| **78040TQ** | ON-OFF | SPST | 15* | 10* | 3/4 | Flat | Poly. (Red)** | 0.250 Quikconnect | 5 |

*Amperage and voltage are also valid for D.C. Rating /**Lighted toggle /Poly. = Polycarbonate

**Dimensions (IN)** A: 0.715 B: 0.379 C: 0.865 D: 0.750 E: 0.422 THREAD: 15/32-32UNS-2A KEYWAY: 0.072 X 0.038 DP





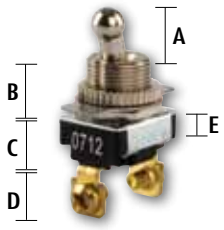



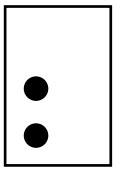
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78280TS** | ON-OFF | SPST | 16* | 8* | 1 | Bat | Brass/Nickel | Screws | 5 |
| **78015TS** | ON-OFF | SPST | 20 | 10 | – | Flat | Nylon | Screws | 5 |

**Dimensions (IN)** A: 0.687 B: 0.280 C: 0.687 D: 0.375 E: 1.000 F: 0.588 KEYWAY: 0.072 X 0.038



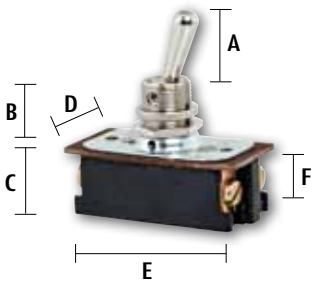



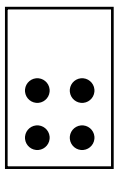
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78050TQ** | ON-OFF | SPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |
| **78130TS** | ON-OFF | SPST | 6 | 3 | – | Ball | Brass/Nickel | Screws | 5 |
| **78150TS** | ON-OFF | SPST | 20 | 10 | 3/4 | Spade | Brass/Nickel | Screws | 5 |

**Dimensions (IN)** A: 0.687 B: 0.465 C: 0.585 D: 0.522 E: 0.312 THREAD: 15/32-32UNS-2A KEYWAY: 0.072 X 0.038



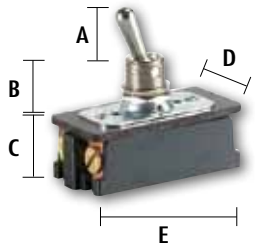



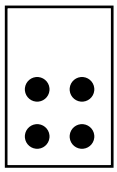
D.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78290TS** | ON-OFF | DPST | 16* | 8* | 1 | Bat | Brass/Nickel | Screws | 5 |

**Dimensions (IN)** A: 0.687 B: 0.465 C: 0.765 D: 0.836 E: 1.750 F: 1.764 THREAD: 15/32-32UNS-2A KEYWAY: 0.072 X 0.038

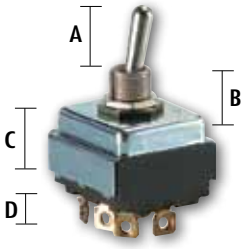


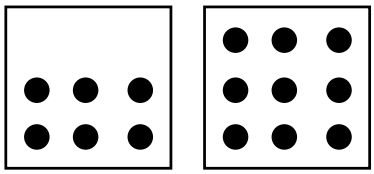



D.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78300TS** | ON-OFF | DPST | 20* | 10* | 1 1/2 | Bat | Brass/Nickel | Screws | 5 |
| **Dimensions (IN)** | A: 0.687 | B: 0.465 | C: 0.895 | D: 1.000 | E: 2.093 | | | | |



3 P.S.T 3 P.D.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78310TS** | ON-OFF | 3PST | 15 | 10 | 3/4 @ 250 | Bat | Brass/Nickel | Screws | 5 |
| **78315TS** | ON-OFF-ON | 3PDT | 15 | 10 | 3/4 @ 250 | Bat | Brass/Nickel | Screws | 5 |
| **Dimensions (IN)** | A: 0.688 | B: 0.469 | C: 0.965 | D: 0.300 | THREAD: 15/32 | | | | |



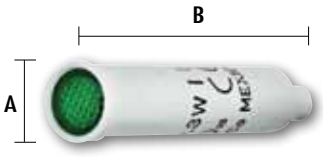

| CAT. NO. | CIRCUT FUNCTIONS | STD. CTN. QTY. |
|---|---|---|
| **79300MS** | Toggle Switch Boots | 2 |
| **79300MSR** | Toggle Switch Boots | 2 |
| **Dimensions (IN)** | A: 0.950 B: 0.812 | |

# Round Indicator Lights
## WITH NON-REPLACEABLE LAMPS



## FEATURES

- High quality indicator lights made of nylon with polycarbonate lens material and neon lamps.
- 125-volt rated.
- Connection with 6 inch wire leads.
- Available in many other styles and finishes.
- Also available with incandescent lamps, contact NSi for price and delivery.




| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **79710LW** | 0.312 | 0.030 Min. | Flush | Green | Diamond | White | Press | 0.312 | 5 |
| **79720LW** | 0.312 | 0.030 Min. | Flush | Red | Diamond | White | Press | 0.312 | 5 |

**Dimensions (IN)** A: 0.130 B: 1.430 MOUNTING HOLE: 0.312 PANEL THICKNESS: 0.030 MIN.



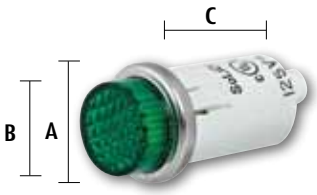

| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **79740LW** | 0.500 | 0.030 - .093 | 0.09 Cyl | Green | Diamond | Stainless | Press | 0.500 | 5 |
| **79750LW** | 0.500 | 0.030 - .093 | 0.09 Cyl | Red | Diamond | Chrome | Press | 0.500 | 5 |
| **79755LW** | 0.500 | 0.030 - .093 | 0.09 Cyl | Amber | Diamond | Stainless | Press | 0.500 | 5 |

**Dimensions (IN)** A: 0.210 B: 0.100 C: 0.910 MOUNTING HOLE: 0.312 PANEL THICKNESS: 0.030 MIN.

# Round & Snap-In Rectangular Indicator Lights

## FEATURES

- High quality indicator lights made of nylon with polycarbonate lens material and neon lamps.
- 125-volt rated.
- Connection with 6 inch wire leads (Round Indicator lights).
- Available in many other styles and finishes.
- Also available with incandescent lamps.



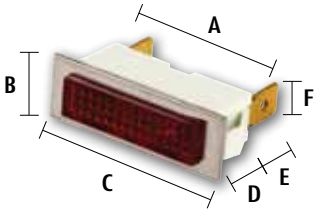

| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **79770LW** | 0.500 | 0.030 - 0.093 | 0.25 Cyl | Green | Diamond | Stainless | Press | 0.500 | 5 |
| **79780LW** | 0.500 | 0.030 - 0.093 | 0.25 Cyl | Red | Diamond | Stainless | Press | 0.500 | 5 |
| **79785LW** | 0.500 | 0.030 - 0.093 | 0.25 Cyl | Amber | Diamond | Stainless | Press | 0.500 | 5 |

**Dimensions (IN)** A: 0.210 B: 0.100 C: 0.910 MOUNTING HOLE: 0.500 PANEL THICKNESS: 0.030 - 0.093




| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **79800LW** | 0.500 | 0.040 - 0.110 | Semi-Dome | Red | Rings | None | Snap In | 0.500 | 5 |

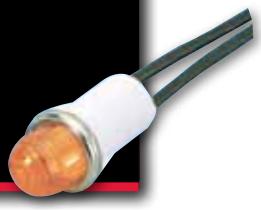
**Dimensions (IN)** A: 1.130 MOUNTING HOLE: 0.500 PANEL THICKNESS: 0.040 - 0.110




| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS COLOR | LENS TYPE | BEZEL COVER | CONN. TYPE | LAMP COLOR |
|---|---|---|---|---|---|---|---|
| **79505LQ** | 0.375 x 1.28 | 0.03 - .10 | Red | Diamond | Stainless | 0.250 Quikconnect | 5 |

**Dimensions (IN)** A: 1.080 B: 0.290 C: 1.380 D: 0.460 E: 0.500 F: 0.370 G: 0.120

# Indicator LightS & Emergency Stop Buttons





## FEATURES

- Terminals are tin-plated brass.
- Wire leads are 22 AWG, 4.4-4.8" long, 1/2" stripped.
- Mounting will snap-fit into 0.500-0.505" diameter hole in 0.020-0.100" thick panels.
- Dome style.

| CAT. NO. | COLOR | LENS MATERIAL | VOLTAGE | BULB TYPE | BAG QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **79900LW** | Red | Polycarbonate | 28V | Incandescent | 1 | 12 |
| **79901LW** | Green | Polycarbonate | 28V | Incandescent | 1 | 12 |
| **79902LW** | Amber | Polycarbonate | 28V | Incandescent | 1 | 12 |
| **79910LW** | Red | Nylon | 105-125VAC | Neon | 1 | 12 |
| **79911LW** | Green | Polycarbonate | 105-125VAC | Neon | 1 | 12 |
| **79912LW** | Amber | Nylon | 105-125VAC | Neon | 1 | 12 |
| **79920LW** | Red | Polycarbonate | 208-250 VAC | Neon | 1 | 12 |
| **79921LW** | Green | Polycarbonate | 208-250 VAC | Neon | 1 | 12 |
| **79922LW** | Amber | Polycarbonate | 208-250 VAC | Neon | 1 | 12 |

## EMERGENCY STOP BUTTON



| CAT. NO. | NAED NO. | LENS COLOR | STD. CTN. QTY. |
|---|---|---|---|
| **ESB2-INC-R** | 32132 | Red | 6 |
| **ESB2-INOINC-R** | 32136 | Red | 6 |


CABLE TIES
STANDARD TYPE




# WIRE MANAGEMENT

EASY-WRAP™

# Premium Electrical Tape

EWP SERIES




## EASY-WRAP™ PREMIUM 070

- 7 mil., all-weather, premium grade, pressure sensitive vinyl electrical tape.
- Cold and sunlight resistant.
- Flame retardant.
- Suitable for use in all kinds of electrical and mechanical applications.
- Provides exceptional flexibility and performance over a wide range of temperatures.
- Available in standard black and nine assorted colors for easy identification or color coding.

**TEMPERATURE RATING:**
Suitable for use at no more than 600V and not more than 80 °C (176 °F).
CSA temperature range: -18 °C to 105 °C (-0.4 °F to 221 °F).

| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWP 7066** | Black | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-1** | Brown | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-2** | Red | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-3** | Orange | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-4** | Yellow | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-5** | Green | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-6** | Blue | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-7** | Purple | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-8** | Grey | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-9** | White | 66 | 0.75 | 0.007 | 10 |

## EASY-WRAP™ PREMIUM 085

- 8.5 mil., all-weather, premium grade, pressure sensitive vinyl electrical tape.
- Cold and sunlight resistant.
- Flame retardant.
- Suitable for use in all kinds of electrical and mechanical applications.
- Provides exceptional flexibility and performance over a wide range of temperatures.
- Available in standard black only.

**TEMPERATURE RATING:**
Suitable for use at no more than 600V and not more than 80 °C (176 °F).
CSA temperature range: -18 °C to 105 °C (-0.4 °F to 221 °F).
Meets MIL-I-24391C, HH-I-595C and ASTM D-3005.



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWP 8566** | Black | 66 | 0.75 | 0.0085 | 10 |

EASY-WRAP™

# General Purpose & All-Weather Corrosion Tape

EWG, EWPP SERIES






## EASY-WRAP™ GENERAL PURPOSE

- 7 mil., economy-grade, sunlight resistant, pressure sensitive vinyl electrical tape.
- Suitable for use in all kinds of electrical and mechanical applications such as cable insulation, wire bundling, and reinforcing.
- Extremely flexible with good adhesion and conformability.
- Available in standard black and nine assorted colors for easy identification or color coding.

**TEMPERATURE RATING:**
Suitable for use at no more than 600V and not more than 80 °C (176 °F).
CSA temperature range: -7 °C to 80 °C (19.4 °F to 176 °F).



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWG 7060** | Black | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-1** | Brown | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-2** | Red | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-3** | Orange | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-4** | Yellow | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-5** | Green | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-6** | Blue | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-7** | Purple | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-8** | Grey | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-9** | White | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-10** | One roll of each of the above 10 colors | | | | 1 pkg |

## ALL-WEATHER CORROSION (PIPE WRAP)

- Heavy duty PVC tape, manufactured with a high quality adhesive and are designed to protect pipe surfaces from corrosion, abrasion and electrolytic action.
- Indoors or outdoors, above or below ground to protect pipes, conduits, joints and fittings.
- Pliable and easy to apply.
- Outstanding protection against water, sunlight, acids, alkalis, corrosive salts and sewage.
- Excellent UV resistant.

**TEMPERATURE RATING:**
Temperature rated to 80 °C (176 °F).



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWPP 102100P** | Black | 100 | 2 | 0.01 | 1 |
| **EWPP 102100** | Black | 100 | 2 | 0.01 | 1 |
| **EWPP 104100** | Black | 100 | 4 | 0.01 | 1 |
| **EWPP 202100** | Black | 100 | 2 | 0.02 | 1 |
| **EWPP 202100P** | Black | 100 | 2 | 0.02 | 1 |

*Suffix "P" denotes printed tapes.

EASY-WRAP™

# Rubber Splicing, Harness Wrap, & Duct Tape

EWRT, EWWH, EWDT SERIES



## EASY-WRAP™ RUBBER SPLICING

- High quality unvulcanized rubber that will bond quickly to itself to form a solid mass of watertight protection.
- Self-fusing with liner.
- Can be used as primary insulation for electrical wires and cable splices up to 600 volts.
- Conforms to irregular shapes and is flexible to withstand expansion and contraction.
- Highly resistant to salt water, steam, oils, detergents and other chemicals.

**TEMPERATURE RATING:**
Dielectric strength 490 Volts per mil.
Meets HH-I-553C Grade B and ASTM D-119; UL 510 listing #2C58.

| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWRT 3022-.75** | Black | 22 | 0.750 | 0.030 | 1 |
| **EWRT 3022-1.5** | Black | 22 | 1.500 | 0.030 | 1 |
| **EWRT 3022-2** | Black | 22 | 2.000 | 0.030 | 1 |



## EASY-WRAP™ WIRE HARNESS WRAP

- A 5 mil PVC film, coated with a rubber adhesive for high elongation and exceptional adherence.
- Excellent conformability to the wiring harness. Matte finish.

| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWWH 5060** | Black | 60 | 0.750 | 0.005 | 1 |



## DUCT TAPE

- Superior cloth duct tapes, designed to meet all industry demands and applications.
- Uniform MD/CD tear properties.

| CAT. NO. | COLOR | TENSILE (IN/LBS.) | LENGTH (YD.) | WIDTH (IN.) | THICKNESS (mm.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **EWDT-8** | Silver | 18 | 55 | 2.000 | 18 | 1 |

EASY-WRAP™

# Friction, Electrical Filler & Silicone Rubber Tape

EWFT, EWEF, EWSR SERIES



## FRICTION TAPE

- Cloth construction offers strong mechanical protection against abrasion and penetration of cable, splices and wire.
- Coated on both sides with a rubber adhesive for adhesion to all types of surfaces.



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWFT 157560** | Black | 60 | 0.750 | 0.015 | 1 |

## EASY-WRAP™ ELECTRICAL FILLER TAPE

- Butyl based insulation is 1/8" thick for build-up.
- Easy to mold around irregular shapes.
- Self-amalgamates into solid flexible mass.
- Will not corrode copper or aluminum and highly resistant to moisture.
- Rated for applications up to 5 KV.



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWEF 12155** | Black | 5 | 1.500 | 0.125 | 1 |

## SILICONE RUBBER TAPE - 69 KV

- Self-bonding silicone rubber tape adheres to itself when wrapped under tension and fuses to form a homogeneous mass within 24 hours at room temperature or four hours at 176.6 °C (350 °F).
- No adhesive required; tape leaves no residue.
- Excellent dialectric properties.
- Waterproof and chemical resistant.
- Triangular configuration.

**APPLICATIONS:**
For use on applications up to 69 KV.
Meets MIL-A-A-59163.

**TEMPERATURE RATING:**
-53.8 °C to 204.4 (-65 °F to 400 °F).



| CAT. NO. | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **EWSR 121030** | 30 | 1.000 | 0.120 | 1 |

EASY-WRAP™

# High Voltage, Glass Cloth & Rubber Mastic Tape

EWHR, EWGC, EWMT SERIES



## HIGH VOLTAGE RUBBER TAPE - 69 KV WITH WHITE LINER

- Self bonding, highly conformable 30 mil EPR rubber with liner.
- Use as primary electrical insulation for a pplications through 69 KV.
- Flame Retardant, IEEE Standard 17-1974 ANSI.

**TEMPERATURE RATING:**
Rated for 90 °C (194 °F) continuous operating temperature. Intermittent to 130 °C (266 °F). Will not crack at -40 °C (-40 °F).

| CAT. NO. | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **EWHR 307530-L** | 30 | 0.750 | 0.030 | 1 |
| **EWHR 3010030-L** | 30 | 1.000 | 0.030 | 1 |
| **EWHR 3015030-L** | 30 | 1.500 | 0.030 | 1 |
| **EWHR 3020030-L** | 30 | 2.000 | 0.030 | 1 |

## GLASS CLOTH RUBBER ADHESIVE

- Provides heat stabilized insulation for applications where resistance to high temperature and high mechanical strength are required, such as motor leads, hot spots, switches and controls.

**TEMPERATURE RATING:**
Insulation Class: 130 °C (266 °F).
Dialectric strength: 3,300 Volts.
MIL-I-15126F (type GFT).



| CAT. NO. | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **EWGC75066** | 66 | 0.500 | 0.007 | 1 |
| **EWGC77566** | 66 | 0.750 | 0.007 | 1 |

## LINED RUBBER MASTIC TAPE

- A self-fusing conformable electrical insulating and sealing tape.
- EPR rubber with a strong stable mastic adhesive for busbar and splice connections.

**TEMPERATURE RATING:**
130 °C (266 °F).

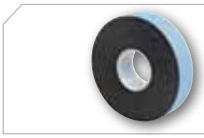


| CAT. NO. | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **EWMT 1252524** | 2 | 2.500 | 0.125 | 1 |

## SLYDER™ LUBRICANT

# Slyder™ Wire Lubricant





## FEATURES

- Superior gel lubricant that reduces surface tension on cable to the lowest level.
- Excellent adherence to cable ensures maximum performance and easier pulls.
- Maintains its lubricity even after drying and has excellent re-wetting characteristics.
- Non-toxic and non-flame propagating and can be used as part of a fire retardant installation. Does not contain any aromatic or petroleum derivative.

| CAT. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|
| **SWL-1Q** | 1 Quart | 12 |
| **SWL-1G** | 1 Gallon | 4 |
| **SWL-5G** | 5 Gallons | 1 |

CABLE TIES

# Standard (Natural) Cable Ties



## FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| MAX. WIRE/ CABLE SIZE (L) | CAT. NO. |
|---|---|
| 4" | 418 |
| | 418X |
| | 450 |
| 5" | 518 |
| | 518X |
| | 540 |
| | 540X |
| 6" | 650 |
| | 650X |
| 7" | 750 |
| | 750X |
| 8" | 818 |
| | 818X |
| | 840 |
| | 840X |
| | 850 |
| | 850X |
| | 875 |
| | 8120 |
| | 8120X |
| 11" | 1140 |
| | 1140X |
| | 1150 |
| | 1150X |
| | 1175 |
| | 11120 |
| 14" | 1450 |
| | 1450X |
| | 1475 |
| | 14120 |
| 15" | 15250 |
| 18" | 1850 |
| | 18175 |
| | 18250 |
| 22" | 22250 |
| 24" | 24175 |
| 28" | 28250 |
| 30" | 30175 |
| 36" | 36175 |
| 48" | 48175 |
| 60" | 60175 |





| MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|
| 0.800 | 18 Lbs.. | 4.000 | 0.095 | 100 | 5,000 |
| 0.800 | 18 Lbs... | 4.000 | 0.095 | 1000 | 5,000 |
| 0.800 | 50 Lbs.. | 4.000 | 0.095 | 100 | 5,000 |
| 1.430 | 18 Lbs.. | 6.000 | 0.095 | 100 | 5,000 |
| 1.375 | 18 Lbs.. | 5.500 | 0.100 | 1000 | 5,000 |
| 1.300 | 40 Lbs.. | 5.500 | 0.140 | 100 | 3,000 |
| 1.300 | 40 Lbs.. | 5.000 | 0.140 | 1000 | 3,000 |
| 1.320 | 50 Lbs.. | 6.250 | 0.181 | 100 | 3,000 |
| 1.320 | 50 Lbs.. | 6.300 | 0.181 | 1000 | 3,000 |
| 1.810 | 50 Lbs.. | 7.500 | 0.189 | 100 | 3,000 |
| 1.810 | 50 Lbs.. | 7.500 | 0.189 | 1000 | 3,000 |
| 2.060 | 18 Lbs.. | 8.000 | 0.095 | 100 | 3,000 |
| 2.060 | 18 Lbs.. | 8.000 | 0.095 | 1000 | 3,000 |
| 2.060 | 40 Lbs.. | 8.000 | 0.140 | 100 | 3,000 |
| 2.060 | 40 Lbs.. | 8.000 | 0.140 | 1000 | 3,000 |
| 1.940 | 50 Lbs.. | 8.000 | 0.189 | 100 | 3,000 |
| 1.940 | 50 Lbs.. | 8.000 | 0.189 | 1000 | 3,000 |
| 1.940 | 75 Lbs.. | 8.000 | 0.189 | 100 | 3000 |
| 2.000 | 120 Lbs.. | 8.000 | 0.300 | 100 | 2,000 |
| 2.000 | 120 Lbs.. | 8.000 | 0.300 | 1000 | 2,000 |
| 3.300 | 40 Lbs.. | 11.500 | 0.140 | 100 | 2,000 |
| 3.300 | 40 Lbs.. | 11.500 | 0.140 | 1000 | 2,000 |
| 2.940 | 50 Lbs.. | 11.100 | 0.189 | 100 | 2,000 |
| 2.940 | 50 Lbs.. | 11.100 | 0.189 | 1000 | 2,000 |
| 2.940 | 75 Lbs.. | 11.100 | 0.189 | 100 | 2,000 |
| 3.000 | 120 Lbs.. | 11.500 | 0.300 | 100 | 2,000 |
| 4.070 | 50 Lbs.. | 14.100 | 0.189 | 100 | 3,000 |
| 4.070 | 50 Lbs.. | 14.100 | 0.189 | 1000 | 3,000 |
| 4.070 | 75 Lbs.. | 14.100 | 0.189 | 100 | 3,000 |
| 4.070 | 120 Lbs.. | 14.250 | 0.300 | 100 | 2,000 |
| 4.375 | 250 Lbs.. | 15.000 | 0.500 | 50 | 500 |
| 5.070 | 50 Lbs.. | 18.000 | 0.189 | 100 | 2,000 |
| 5.250 | 175 Lbs.. | 17.750 | 0.315 | 50 | 500 |
| 5.500 | 250 Lbs.. | 18.870 | 0.500 | 50 | 500 |
| 6.875 | 250 Lbs. | 22.87 | 0.500 | 50 | 500 |
| 7.140 | 175 Lbs.. | 24.000 | 0.345 | 50 | 500 |
| 8.875 | 250 Lbs. | 28.75 | 0.500 | 50 | 500 |
| 9.250 | 175 Lbs.. | 30.000 | 0.354 | 50 | 500 |
| 11.000 | 175 Lbs.. | 36.000 | 0.350 | 50 | 500 |
| 15.000 | 175 Lbs.. | 48.000 | 0.354 | 50 | 500 |
| 18.250 | 175 Lbs.. | 59.000 | 0.354 | 50 | 500 |

CABLE TIES

# UV & Weather Resistant (Black) Cable Ties



## FEATURES

- Made from weather resistant Nylon 66 for applications exposed to outside elements.
- UV resistant.
- Black only.

## RATINGS

c UL us
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Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| MAX. WIRE/ CABLE SIZE (L) | CAT. NO. |
|---|---|
| 4" | 4180 |
| | 4180X |
| | 4500 |
| | 4500X |
| 5" | 5180 |
| | 5180X |
| | 5400 |
| | 5400X |
| 6" | 6500 |
| 7" | 7500 |
| | 7500X |
| 8" | 8180 |
| | 8180X |
| | 8400 |
| | 8400X |
| | 8500 |
| | 8500X |
| | 8750 |
| | 81200 |
| 11" | 11400 |
| | 11500 |
| | 11500X |
| | 11750 |
| | 111200 |
| 14" | 14500 |
| | 14500X |
| | 14750 |
| | 141200 |
| 15" | 152500 |
| 18" | 18500 |
| | 181750 |
| | 182500 |
| 22" | 222500 |
| 24" | 241750 |
| 28" | 282500 |
| 30" | 301750 |
| 34' | 342500 |
| 36" | 361750 |
| 40" | 402500 |
| 48" | 481750 |
| 60" | 601750 |





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| MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|
| 0.800 | 18 Lbs | 4.000 | 0.095 | 100 | 5,000 |
| 0.800 | 18 Lbs | 4.000 | 0.095 | 1000 | 5,000 |
| 1.430 | 50 Lbs | 6.000 | 0.095 | 100 | 5,000 |
| 1.375 | 50 Lbs | 5.500 | 0.100 | 1000 | 5,000 |
| 1.300 | 18 Lbs | 5.500 | 0.140 | 100 | 3,000 |
| 1.300 | 18 Lbs | 5.000 | 0.140 | 1000 | 3,000 |
| 1.320 | 40 Lbs | 6.250 | 0.181 | 100 | 3,000 |
| 1.320 | 40 Lbs | 6.300 | 0.181 | 1000 | 3,000 |
| 1.810 | 40 Lbs | 7.500 | 0.189 | 100 | 3,000 |
| 2.060 | 50 Lbs | 8.000 | 0.095 | 100 | 3,000 |
| 2.060 | 50 Lbs | 8.000 | 0.095 | 1000 | 3,000 |
| 2.060 | 18 Lbs | 8.000 | 0.140 | 100 | 3,000 |
| 2.060 | 18 Lbs | 8.000 | 0.140 | 1000 | 3,000 |
| 1.940 | 40 Lbs | 8.000 | 0.189 | 100 | 3,000 |
| 1.940 | 40 Lbs | 8.000 | 0.189 | 1000 | 3,000 |
| 2.000 | 50 Lbs | 8.000 | 0.300 | 100 | 2,000 |
| 2.000 | 50 Lbs | 8.000 | 0.300 | 1000 | 2,000 |
| 2.000 | 75 Lbs | 8.000 | 0.300 | 100 | 2,000 |
| 3.300 | 120 Lbs | 11.500 | 0.140 | 100 | 2,000 |
| 2.940 | 40 Lbs | 11.100 | 0.189 | 100 | 2,000 |
| 3.125 | 50 Lbs | 11.500 | 0.187 | 100 | 2,000 |
| 3.125 | 50 Lbs | 11.500 | 0.187 | 1000 | 2,000 |
| 3.000 | 75 Lbs | 11.500 | 0.189 | 100 | 2,000 |
| 3.000 | 120 Lbs | 11.500 | 0.300 | 100 | 2,000 |
| 4.070 | 50 Lbs | 14.100 | 0.189 | 100 | 3,000 |
| 4.070 | 50 Lbs | 14.100 | 0.189 | 1000 | 3,000 |
| 4.070 | 75 Lbs | 14.100 | 0.189 | 100 | 3,000 |
| 4.070 | 120 Lbs | 14.250 | 0.300 | 100 | 2,000 |
| 4.375 | 250 Lbs | 15.000 | 0.500 | 50 | 500 |
| 5.070 | 50 Lbs | 18.000 | 0.189 | 100 | 2,000 |
| 5.250 | 175 Lbs | 17.750 | 0.315 | 50 | 500 |
| 5.500 | 250 Lbs | 18.870 | 0.500 | 50 | 500 |
| 6.875 | 250 Lbs. | 22.87 | 0.500 | 50 | 500 |
| 7.140 | 175 Lbs | 24.000 | 0.345 | 50 | 500 |
| 8.875 | 250 Lbs. | 28.75 | 0.500 | 50 | 500 |
| 9.250 | 175 Lbs | 30.000 | 0.354 | 50 | 500 |
| 10.5 | 250 Lbs. | 34.68 | 0.500 | 50 | 500 |
| 11.000 | 175 Lbs | 36.000 | 0.350 | 50 | 500 |
| 12.5 | 250 Lbs. | 40.5 | 0.500 | 50 | 500 |
| 15.000 | 175 Lbs | 48.000 | 0.354 | 50 | 500 |
| 18.250 | 175 Lbs | 59.000 | 0.354 | 50 | 500 |

CABLE TIES

# Air Handling and Push Mount Cable Ties

-P, -PM SERIES



## AIR HANDLING CABLE TIES

- Air handling ties are approved for indoor use in air handling spaces other than plenums and ducts per NFPA-1993.
- Meets UL 1565 test standards. MIL spec. 3367-1, -7, -2. NEC Sec. 300-22 (C) & (D), Rules 12-010 (3), (4), and (5) and 12-020 of the Canadian Electrical code, Part 1.
- Made of high strength nylon, these ties are self-extinguishing and resist abrasions and chemicals such as oil, greases, solvents, dilute acids and alkalies.
- Burgundy in color for easy identification.

**TEMPERATURE RATING:**
Maximum operating temperature 85 °C (185 °F).

| MAX. WIRE/ CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 7" | **750-P** | 1.750 | 50 Lbs. | 7.500 | 0.180 | 100 | 5,000 |
| 11" | **1150-P** | 3.000 | 50 Lbs. | 11.100 | 0.180 | 100 | 5,000 |
| 14" | **1450-P** | 4.000 | 50 Lbs. | 14.200 | 0.180 | 100 | 5,000 |

## PUSH MOUNT CABLE TIES



- Secure a cable tie to a back panel quickly and easily, eliminating the possibility of adhesive mount failure.
- Drill the mounting hole and insert.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and excellent dielectric properties.

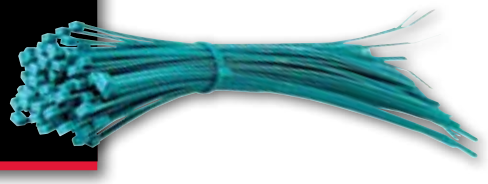
**TEMPERATURE RATING:**
-40 °C to 85 °C (-40 °F to 185 °F) and will withstand temperatures up to 149 °C (300.2 °F).
94V-2 flammability rating.

| MAX. WIRE/ CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | MTG. HOLE SIZE REQ. (IN.) | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 6" | **640-PM** | 1.59 | 40 Lbs. | 3/16 | 6.125 | 0.139 | 100 | 1,000 |

CABLE TIES

# Tefzel, Marker Cable Ties

TFZ, -ID SERIES





## TEFZEL CABLE TIES

- Suitable for extreme environments.
- Rated for air handling spaces and chemical, weather and radiation resistant.
- Ideal for high temperature applications, up to 150 °C (302 °F) continuous operating temperature.
- UL 94V-0 approved.
- Aqua blue in color.

**TEMPERATURE RATING:**
18.3 °C to 150 °C (65 °F to 302 °F).
Melting point 271.1 °C (520 °F).

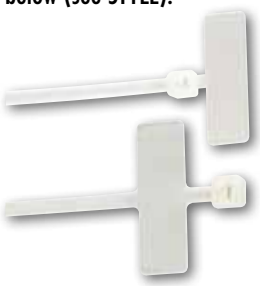
### TRUE PLENUM RATING

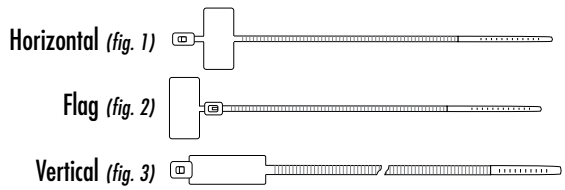
Air handling ties approved for indoor use in air handling spaces and plenums and ducts per NFPA-1993.

| MAX. WIRE/CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 8" | **TFZ850** | 1.750 | 50 Lbs. | 7.500 | 0.190 | 100 | 1,000 |
| 11" | **TFZ1150** | 3.000 | 50 Lbs. | 11.500 | 0.190 | 100 | 1,000 |

## MARKER TIES

- Manufactured from natural colored Nylon 66, with an identification area provided as detailed below (see STYLE).






| MAX. WIRE/ CABLE SIZE | CAT. NO. | STYLE | MAX. BUNDLE DIA. | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | **418-ID** | Vertical | 0.75 | 18 Lbs. | 4.000 | 0.100 | 100 | 1,000 |
| 4" | **418F-ID** | Flag | 0.75 | 18 Lbs. | 4.000 | 0.100 | 100 | 1,000 |
| | **418H-ID** | Horizontal | 0.75 | 18 Lbs. | 4.000 | 0.100 | 100 | 1,000 |
| 7" | **750-ID** | Vertical | 2 | 50 Lbs. | 7.800 | 0.183 | 100 | 1,000 |
| 8" | **818H-ID** | Horizontal | 2 | 18 Lbs. | 8.000 | 0.100 | 100 | 1,000 |

CABLE TIES

# HVAC Standard & Weather Resistant Ties



## HVAC UL181B FOR FLEXIBLE DUCT

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

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Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| CAT. NO. | LENGTH | WIDTH | COLOR | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **36175** | 36 | 0.354 | Natural | 10.625 | 175 Lbs. | 50 | 500 |
| **361750** | 36 | 0.354 | Black | 10.625 | 175 Lbs. | 50 | 500 |
| **48175** | 48 | 0.354 | Natural | 15.000 | 175 Lbs. | 50 | 500 |
| **481750** | 48 | 0.354 | Black | 15.000 | 175 Lbs. | 50 | 500 |

CABLE TIES

# Releasable & Stainless Steel Ties

-R, SS SERIES





## RELEASABLE

- Releasable ties are manufactured from either natural Nylon 66 or Weather Resistant Nylon 66, these ties can be easily released and re-used.

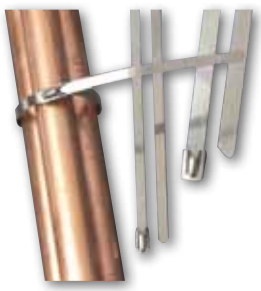
**TEMPERATURE RATING:**
-40 °C to 85 °C (-40 °F to 185 °F).

| MAX. WIRE/CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 8" | **850-R** | 2.000 | 50 Lbs. | 8.00 | 0.210 | 100 | 1,000 |

## STAINLESS STEEL CABLE TIES

- Made of Grade 304 stainless steel and are ideally suited for hazardous environments.
- Roller-ball design that is self locking, fast and easy to install.
- Smooth edges will not damage wires.
- Installation by hand or with a tool.
- Available with a non-toxic, halogen-free polyester coating in a wide choice of colors.
- Available in Grade 316, for applications that require extremely high corrosion resistance. To order 316SS material, add suffix "-316" to part number.

**TEMPERATURE RATING:**
-80 °C to 538 °C (-62.2 °F to 281.1 °F).



### TRUE PLENUM RATING

Air handling ties approved for indoor use in air handling spaces and plenums and ducts per NFPA-1993.

| MAX. WIRE/ CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 8" | **SS8100** | 1.970 | 100 Lbs. | 8.000 | 0.181 | 100 | 500 |
| 14" | **SS14100** | 3.940 | 100 Lbs. | 14.000 | 0.181 | 100 | 500 |
| | **SS14250** | 3.940 | 250 Lbs. | 14.000 | 0.311 | 100 | 500 |
| 20" | **SS20100** | 5.900 | 100 Lbs. | 20.5 | 0.181 | 100 | 500 |
| | **SS20250** | 5.900 | 250 Lbs. | 20.5 | 0.311 | 100 | 500 |
| 26" | **SS26250** | 7.870 | 250 Lbs. | 26.5 | 0.311 | 100 | 500 |

CABLE TIES

# Standard Cable Ties: Color



## FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

## RATINGS

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Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| ORANGE (-3) | GREEN (-5) | RED (-2) |
|---|---|---|
|  |  |  |
| **YELLOW (-4)** | **BLUE (-6)** | **BROWN (-1)** |
|  |  |  |
| **PURPLE (-7)** | **GRAY (-8)** | |
|  |  | |

| MAX. WIRE/ CABLE SIZE (L) | CAT. NO. |
|---|---|
| 4" | 418-4 |
| 5" | 530-1 |
| | 530-2 |
| | 530-3 |
| | 530-4 |
| | 530-5 |
| | 530-6 |
| | 530-8 |
| 7" | 750-2 |
| | 750-3 |
| | 750-4 |
| | 750-5 |
| | 750-6 |
| | 750-7 |
| | 750-8 |
| 8" | 840-1 |
| | 840-2 |
| | 840-3 |
| | 840-4 |
| | 840-5 |
| | 840-6 |
| | 840-7 |
| | 840-8 |
| 11" | 1150-2 |
| 14" | 1450-2 |
| | 1450-3 |
| | 1450-4 |
| | 1450-5 |





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| COLOR | MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| Yellow | 0.800 | 18 Lbs. | 4.000 | 0.095 | 100 | 5,000 |
| Brown | 1.300 | 30 Lbs. | 5.600 | 0.140 | 100 | 5,000 |
| Red | 1.300 | 30 Lbs. | 5.000 | 0.140 | 100 | 5,000 |
| Orange | 1.300 | 30 Lbs. | 5.000 | 0.140 | 100 | 5,000 |
| Yellow | 1.250 | 30 Lbs. | 5.600 | 0.130 | 100 | 5,000 |
| Green | 1.300 | 30 Lbs. | 5.000 | 0.140 | 100 | 5,000 |
| Blue | 1.300 | 30 Lbs. | 5.000 | 0.140 | 100 | 5,000 |
| Gray | 1.300 | 30 Lbs. | 5.600 | 0.140 | 100 | 5,000 |
| Red | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Orange | 1.810 | 50 Lbs. | 7.500 | 0.189 | 100 | 3,000 |
| Yellow | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Green | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Blue | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Purple | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Gray | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Brown | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Red | 2.060 | 40 Lbs. | 8.000 | 0.140 | 100 | 3,000 |
| Orange | 2.060 | 40 Lbs. | 8.000 | 0.140 | 100 | 3,000 |
| Yellow | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Green | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Blue | 2.060 | 40 Lbs. | 8.000 | 0.140 | 100 | 3,000 |
| Purple | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Gray | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Red | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Red | 4.000 | 50 Lbs. | 14.100 | 0.187 | 100 | 2,000 |
| Orange | 4.000 | 50 Lbs. | 14.100 | 0.187 | 100 | 2,000 |
| Yellow | 4.070 | 50 Lbs. | 14.000 | 0.189 | 100 | 2,000 |
| Green | 4.000 | 50 Lbs. | 14.100 | 0.187 | 100 | 2,000 |

# Standard Cable Ties: Fluorescent



## FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

## RATINGS

c UL us
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Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| ORANGE (-16) | GREEN (-18) | PINK (-11) |
|---|---|---|
|  |  |  |
| **YELLOW (17)** | **BLUE (-20)** | |
|  |  | |

| MAX. WIRE/ CABLE SIZE | CAT. NO. |
|---|---|
| | 750-16 |
| 7" | 750-18 |
| | 750-20 |
| | 840-11 |
| | 840-16 |
| 8" | 840-17 |
| | 840-18 |
| | 840-20 |
| | 1150-11 |
| | 1150-16 |
| 11" | 1150-17 |
| | 1150-18 |
| | 1150-20 |





| COLOR (FLOURESCENT) | MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| Orange | 1.750 | 50 Lbs. | 7.500 | 0.187 | 100 | 3,000 |
| Green | 1.810 | 50 Lbs. | 7.500 | 0.189 | 100 | 3,000 |
| Blue | 1.810 | 50 lbs. | 7.500 | 0.189 | 100 | 3,000 |
| Pink | 2.000 | 40 Lbs. | 8.500 | 0.130 | 100 | 3,000 |
| Orange | 2.000 | 40 Lbs. | 8.500 | 0.130 | 100 | 3,000 |
| Yellow | 2.060 | 40 Lbs. | 8.000 | 0.140 | 100 | 3,000 |
| Green | 2.000 | 40 Lbs. | 8.500 | 0.130 | 100 | 3,000 |
| Blue | 2.000 | 40 Lbs. | 8.500 | 0.130 | 100 | 3,000 |
| Pink | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Orange | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Yellow | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Green | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Blue | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |

CABLE TIES

# Cable Tie Canister Packs

CTP SERIES



## FEATURES

- Four sizes of canister packs include popular assortments of standard and colored cable ties.
- Provided in an air-tight canister to prevent drying, extending life.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| CAT. NO. | CONTENTS | QTY. |
|---|---|---|
| CTP-300 | 418 | 100 |
| | 418-2 | 25 |
| | 418-4 | 25 |
| | 418-5 | 25 |
| | 418-6 | 25 |
| | 840 | 50 |
| | 840-2 | 25 |
| | 840-6 | 25 |
| CTP-650 | 418 | 200 |
| | 418-2 | 25 |
| | 418-4 | 25 |
| | 418-5 | 25 |
| | 418-6 | 25 |
| | 840 | 300 |
| | 1150 | 50 |
| CTP-650N | 418 | 300 |
| | 840 | 300 |
| | 1150 | 50 |
| CTP-650B | 4180 | 300 |
| | 8400 | 300 |
| | 11500 | 50 |





nsi INDUSTRIES



| COLOR | BUNDLE DIAL | MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| Natural | 7/8 | 0.875 | 18 Lbs.. | 4.000 | 0.100 | 1 | 12 |
| Red | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Yellow | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Green | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Blue | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Natural | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Red | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Blue | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Natural | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Red | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Yellow | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Green | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Blue | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Natural | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Natural | 3 1/8 | 3.125 | 50 Lbs. | 11.000 | 0.187 | 1 | 12 |
| Natural | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Natural | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Natural | 3 1/8 | 3.125 | 50 Lbs. | 11.000 | 0.187 | 1 | 12 |
| UV Black | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| UV Black | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| UV Black | 3 1/8 | 3.125 | 50 Lbs. | 11.000 | 0.187 | 1 | 12 |

CABLE TIES

# Natural & Weather Resistant Mountable Ties

## -MH SERIES



## FEATURES

- Standard mountable cable ties are manufactured from natural Nylon 66 and come complete with a mounting hole.
- Black weather mountable cable ties are also screw mounted, are manufactured from Weather Resistant Nylon 66 and suitable for outdoor use.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| MAX. WIRE/ CABLE SIZE | CAT. NO. | COLOR | MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 5" | **530MH** | Natural | 1.500 | 30 Lbs. | 6.000 | 0.145 | 100 | 1,000 |
| 7" | **750MH** | Natural | 2.250 | 50 Lbs. | 8.000 | 0.165 | 100 | 1,000 |
| 11" | **1150MH** | Natural | 3.250 | 50 Lbs. | 11.750 | 0.188 | 100 | 1,000 |
| 14" | **1450MH** | Natural | 4.000 | 50 Lbs. | 14.500 | 0.188 | 100 | 500 |
| | **14120MH** | Natural | 4.750 | 120 Lbs. | 15.500 | 0.310 | 100 | 500 |
| 5" | **5300MH** | UV Black | 1.500 | 30 Lbs. | 6.000 | 0.145 | 100 | 1,000 |
| 7" | **7500MH** | UV Black | 2.000 | 50 Lbs. | 8.000 | 0.165 | 100 | 1,000 |
| 11" | **11500MH** | UV Black | 3.250 | 50 Lbs. | 11.750 | 0.188 | 100 | 1,000 |
| 14" | **14500MH** | UV Black | 4.000 | 50 Lbs. | 14.500 | 0.188 | 100 | 500 |
| | **141200MH** | UV Black | 4.750 | 120 Lbs. | 15.500 | 0.310 | 100 | 500 |

CABLE TIES

# Velcro Ties

## V SERIES





## FEATURES

- Unique back-to-back fastening system: a self-gripping, double-sided strap that is easy to use and cost effective.
- Molded high performance polyethylene hook fastener laminated on to a non-woven polyester loop.
- Low peel strength allows for easy entry or removal by the user yet the average shear strength is 3.0 PSI, which increases substantially with each circular rotation.
  Will not over-cinch delicate cable and fiber optics.
- For use with cord and cable management, wire harnesses, inventory control, fibre optics, packaging, in-plant maintenance, etc.
- Allow for a minimum 2" overlap when installing.
- Available in five colors.

## RATINGS

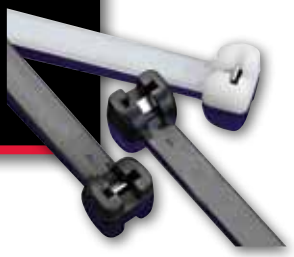
| MAX. WIRE/ CABLE SIZE | CAT. NO. | COLOR | MAX. BUNDLE DIAMETER | LENGTH (IN.) | WIDTH (IN.) | PCS. PER. PKG. | PKG. PER. CTN. |
|---|---|---|---|---|---|---|---|
| 8" | **V850** | Black | 1.750 | 8" | 0.500 | 10 | 25 |
| | **V850-2** | Red | 1.750 | 8" | 0.500 | 10 | 25 |
| | **V850-3** | Orange | 1.750 | 8" | 0.500 | 10 | 25 |
| | **V850-4** | Yellow | 1.750 | 8" | 0.500 | 10 | 25 |
| | **V850-6** | Blue | 1.750 | 8" | 0.500 | 10 | 25 |
| 12" | **V1250** | Black | 3.000 | 12" | 0.500 | 10 | 20 |
| | **V1250-2** | Red | 3.000 | 12" | 0.500 | 10 | 20 |
| | **V1250-4** | Yellow | 3.000 | 12" | 0.500 | 10 | 20 |
| | **V1250-6** | Blue | 3.000 | 12" | 0.500 | 10 | 20 |
| 80" | **V875** | Black | Perforated Every 8" | 80" | 0.75 | 1 | 10 |
| 10' | **V1275** | Black | Perforated Every 12" | 10' | 0.75 | 1 | 10 |
| 15' | **V180** | Black | - | 15' | 0.75 | 1 | 10 |
| 75' | **V900** | Black | - | 75' | 0.75 | 1 | 3 |
| 600' | **V7200** | Black | - | 600' | 0.75 | 1 | 1 |

*Note: Rolls of Velcro tape can be cut to desired length.

CABLE TIES

# Cable Ties with Stainless Steel Barb

## -SB SERIES



## FEATURES

- Natural and UV resistant black, nylon cable ties have stainless steel barb; barb is at 45° pitch with 60° cutting angle, setting strap to desired position to suit all diameters in range.
- Flexible and resistant at low temperatures and humidity-free environments.
- Cold and fastening resistances are higher than normal cable tie tolerances.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-1:**
"Suitable for use in air-handling spaces (Plenums)"

| MAX. WIRE/ CABLE SIZE | CAT. NO. |
|---|---|
| 4" | 418-SB |
| 5" | 540-SB |
| 7" | 750-SB |
| 8" | 818-SB |
| | 840-SB |
| 11" | 1140-SB |
| | 1150-SB |
| 14" | 1450-SB |
| 14" | 14120-SB |
| | |
| 4" | 4180-SB |
| 5" | 5400-SB |
| 7" | 7500-SB |
| 8" | 8180-SB |
| | 8400-SB |
| 11" | 11400-SB |
| | 11500-SB |
| 14" | 14500-SB |
| | 141200-SB |





| COLOR | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| Natural | 0.944 | 18 Lbs. | 4.000 | 0.100 | 100 |
| Natural | 1.417 | 40 Lbs. | 5.500 | 0.137 | 100 |
| Natural | 2.007 | 50 Lbs. | 7.322 | 0.177 | 100 |
| Natural | 2.165 | 18 Lbs. | 7.874 | 0.100 | 100 |
| Natural | 2.165 | 40 Lbs. | 7.874 | 0.137 | 100 |
| Natural | 3.149 | 40 Lbs. | 11.023 | 0.137 | 100 |
| Natural | 3.149 | 50 Lbs. | 11.023 | 0.177 | 100 |
| Natural | 3.976 | 50 Lbs. | 14.173 | 0.177 | 100 |
| Natural | 3.976 | 120 Lbs. | 14.173 | 0.295 | 50 |
| | | | | | |
| UV Black | 0.944 | 18 Lbs. | 4.000 | 0.100 | 100 |
| UV Black | 1.417 | 40 Lbs. | 5.500 | 0.137 | 100 |
| UV Black | 2.007 | 50 Lbs. | 7.322 | 0.177 | 100 |
| UV Black | 2.165 | 18 Lbs. | 7.874 | 0.100 | 100 |
| UV Black | 2.165 | 40 Lbs. | 7.874 | 0.137 | 100 |
| UV Black | 3.149 | 40 Lbs. | 11.023 | 0.137 | 100 |
| UV Black | 3.149 | 50 Lbs. | 11.023 | 0.177 | 100 |
| UV Black | 3.976 | 50 Lbs. | 14.173 | 0.177 | 100 |
| UV Black | 3.976 | 120 Lbs. | 14.173 | 0.295 | 50 |

# Cable Tie Installation Tools

## TRT, SSCT SERIES

## FEATURES

### TRT

- Ergonomic, durable cable tie tools suitable for tensile strengths from 18lb through 250lb extra heavy lashing ties.

### SSCT

- Stainless Steel manual tools are ergonomic, durable cable tie tools suitable for 100lb and 250lb tensile strength stainless steel ties.
- SSCT-5 has preset tension adjustment control, allowing for uniform tension setting and automatic cutting on each bundle.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | **6** |
|  |  |  |
| **7** | | |
|  | | |

| CAT. NO. | FIG. NO. | TOOL DUTY | APPLICATION | MIN. TENSILE STRENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **TRT-100** | 1 | Light weight, plastic | Miniature, intermediate and standard duty cable ties | 18-50 Lbs. | 1 |
| **TRT-200** | 2 | Sturdy, metal | Miniature, intermediate, and standard duty cable ties | 18-50 Lbs. | 1 |
| **TRT-300** | 3 | Heavy Duty, all-metal | Miniature up to Heavy Duty cable ties | 18-175 Lbs. | 1 |
| **TRT-400** | 4 | Extra Heavy Duty, all-metal | Miniature up to extra Heavy Duty cable ties | 18-250 Lbs. | 1 |
| **TRT-500** | 5 | Deluxe cable tie tool | Miniature up to Standard Duty cable ties | 18-50 Lbs. | 1 |
| **SSCT-3** | 6 | Stainless Steel cable tie tool | 100lb and 250lb Stainless Steel cable ties | 100-250 Lbs. | 1 |
| **SSCT-5** | 7 | Stainless Steel cable tie tool | 100lb and 250lb Stainless Steel cable ties | 100-250 Lbs. | 1 |

CABLE TIE MOUNTS

# Cable Tie Adhesive Mounts

FTH SERIES

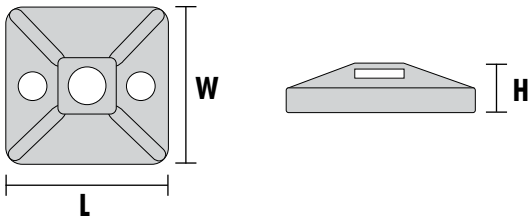


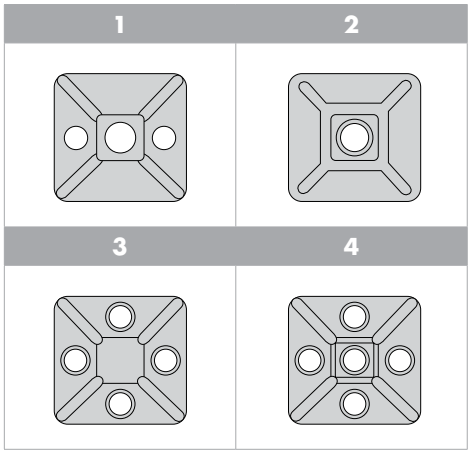


## FEATURES

- Mounts are used to route and fasten cable-tied bundles to flat surfaces.
- Cable ties may be inserted from any of four directions, eliminating orientation time.
- The top of the mount has a cradle design which allows the bundle to fit snugly and a mounting hole for additional support, where required.

**TEMPERATURE RATING:**
-80 °C to 538 °C (-112 °F to 1000.4 °F).




| CAT. NO. | FIG. NO. | COLOR | SLOT WIDTH | LENGTH (IN.) | WIDTH (IN.) | HEIGHT |
|---|---|---|---|---|---|---|
| **FTH5A** | 1 | Natural | 0.140 | 0.750 | 0.750 | 0.140 |
| **FTH5A-B** | 1 | Black | 0.140 | 0.750 | 0.750 | 0.140 |
| **FTH7A** | 2 | Natural | 0.203 | 1.000 | 1.000 | 0.160 |
| **FTH7A-B** | 2 | Black | 0.203 | 1.000 | 1.000 | 0.160 |
| **FTH15A** | 3 | Natural | 0.394 | 1.500 | 1.500 | 0.300 |
| **FTH15A-B** | 3 | Black | 0.394 | 1.500 | 1.500 | 0.300 |
| **FTH20A** | 4 | Natural | 0.500 | 2.000 | 2.000 | 0.500 |
| **FTH20A-B** | 4 | Black | 0.500 | 2.000 | 2.000 | 0.500 |

CABLE TIE MOUNTS

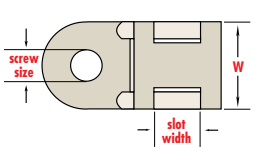
# Push Mounts

SM SERIES

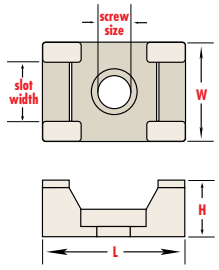
## FEATURES

- Manufactured using UL approved Nylon 66, 94V-2.
- Saddle design provides maximum stability to wire bundles.




SM-0, OL




SM-1, 2, 3

## RATINGS

**TEMPERATURE RATING:**
-80 °C to 538 °C (-112 °F to 1000.4 °F).

| CAT. NO. | FIG. NO. | COLOR | SCREW SIZE | SLOT WIDTH | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **SM-0** | 1 | Natural | 0.133 | 0.200 | 0.750 | 0.370 | 0.200 | 100 | 1,000 |
| **SM-0L** | 1 | Natural | 0.204 | 0.200 | 0.750 | 0.370 | 0.200 | 100 | 1,000 |
| **SM-1** | 2 | Natural | 0.120 | 0.280 | 0.590 | 0.390 | 0.280 | 100 | 1,000 |
| **SM-2** | 2 | Natural | 0.130 | 0.160 | 0.500 | 0.280 | 0.230 | 100 | 1,000 |
| **SM-3** | 2 | Natural | 0.236 | 0.350 | 0.900 | 0.630 | 0.350 | 100 | 1,000 |
| **SM-1-B** | 2 | Black | 0.120 | 0.280 | 0.590 | 0.390 | 0.280 | 100 | 1,000 |
| **SM-2-B** | 2 | Black | 0.130 | 0.160 | 0.500 | 0.280 | 0.230 | 100 | 1,000 |
| **SM-3-B** | 2 | Black | 0.236 | 0.350 | 0.900 | 0.630 | 0.350 | 100 | 1,000 |

CABLE TIE MOUNTS

# Polyethylene Nail Clips

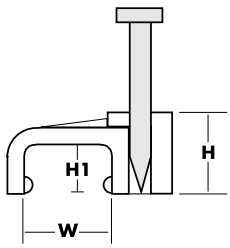
PNC SERIES

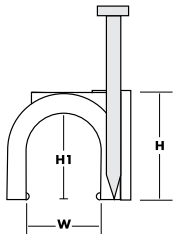


## FEATURES

- Made from impact resistant, non-corrosive polyethylene.
- Supplied with corrosion resistant, hardened steel nails already inserted for ease-of-use.
- The smooth polyethylene surface prevents damage to the insulation.

| 1 | 2 |
|---|---|
|  |  |




| CAT. NO. | FIGURE NO. | COLOR | WIDTH | HEIGHT (IN.) | HEIGHT 1 (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **PNC-217W** | 1 | White | 0.217 | 0.216 | 0.122 | 100 | 1,000 |
| **PNC-335W** | 1 | White | 0.335 | 0.315 | 0.205 | 100 | 1,000 |
| **PNC-157G** | 2 | Grey | 0.157 | 0.260 | 0.165 | 100 | 1,000 |
| **PNC-197G** | 2 | Grey | 0.197 | 0.299 | 0.206 | 100 | 1,000 |
| **PNC-236G** | 2 | Grey | 0.236 | 0.354 | 0.260 | 100 | 1,000 |
| **PNC-315G** | 2 | Grey | 0.315 | 0.453 | 0.339 | 100 | 1,000 |
| **PNC-391G** | 2 | Grey | 0.391 | 0.528 | 0.413 | 100 | 1,000 |

CABLE TIES

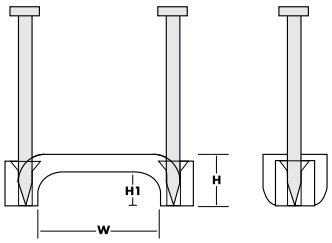
# Nail-On Plastic Staples for Romex

PNC SERIES



## PLASTIC STAPLES FOR ROMEX

- PNC-492W is suitable for use with 14/2, 14/3 or 12/2.
- PNC-736W is suitable for use with 12/3, 10/2 or 10/3.




## RATINGS

**RoHs** Compliant.

| CAT. NO. | FIG. NO. | COLOR | WIDTH | HEIGHT (IN.) | HEIGHT 1 (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **PNC-492W** | 3 | White | 0.492 | 0.315 | 0.209 | 100 | 5,000 |
| **PNC-736W** | 3 | White | 0.736 | 0.315 | 0.209 | 100 | 5,000 |

CABLE TIE MOUNTS

# Masonry Push Mounts & Adjustable Cable Clamps

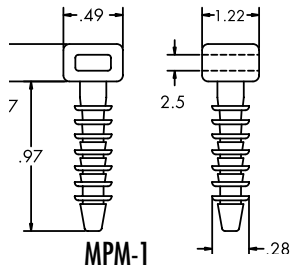
MPM, ADJCC SERIES





## MASONARY PUSH MOUNTS

- Manufactured using UL approved Nylon 66, 94V-2. Installs in masonry surfaces.
- Simply pre-drill a mounting hole, hammer the push mount in, then feed a cable tie through the head.



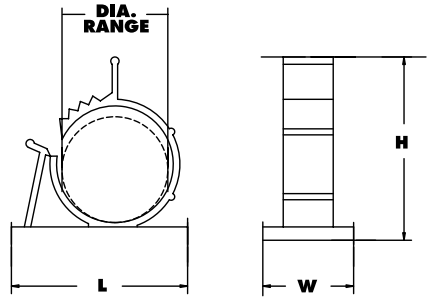

MPM-1

| CAT. NO. | CABLE TIE WIDTH ACCEPTABLE | THREAD LENGTH | OVERALL WIDTH | THREAD WIDTH | HEAD SIZE L X W | STD. PKG. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **MPM-1** | 0.39 | 0.97 | 1.22 | 0.28 | 0.49 x 0.47 | 100 | 500 |

## ADJUSTABLE CABLE CLAMPS

- Clamps are adjustable to accommodate various sizes of cables.
- Easy to install and open for unlimited usage.
- Manufactured using UL approved Nylon 66, 94V-2 and have an adhesive tape backing.








| CAT. NO. | DIA. RANGE | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **ADJCC-1** | 0.31 to 0.40 | 1.000 | 0.750 | 0.870 | 100 | 1,000 |
| **ADJCC-3** | 0.50 to 0.60 | 1.500 | 0.750 | 1.250 | 100 | 1,000 |
| **ADJCC-5** | 0.87 to 1.00 | 1.650 | 1.000 | 1.750 | 100 | 1,000 |

CABLE TIE CLAMPS

# Standard & Heavy Duty Nylon Cable Clamps

NC, NCH SERIES



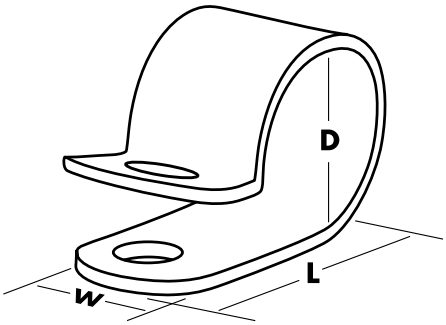
## FEATURES

### STANDARD DUTY

- Standard duty clamps are similar to heavy duty nylon cable clamps, except narrower in width.
- Made from Nylon 66. 94 V-2 rated.
- Complete with 0.180" mounting hole.

### HEAVY DUTY

- Made from Nylon 66. 94V-2 rated.
- Designed with wide arc to hold cables, tubes, etc.
- Fully radiused interior edges to protect cable insulation.
- Non-conductive, non-corrosive, resistant to fuels, lubricants and most chemicals.
- 0.180" mounting hole.




| CAT. NO. |
|---|
| NC-125 |
| NC-125-0 |
| NC-187 |
| NC-187-0 |
| NC-250 |
| NC-250-0 |
| NC-312 |
| NC-312-0 |
| NC-375 |
| NC-375-0 |
| NC-500 |
| NC-500-0 |
| |
| NCH-250 |
| NCH-250-0 |
| NCH-312 |
| NCH-312-0 |
| NCH-375 |
| NCH-375-0 |
| NCH-437 |
| NCH-500 |
| NCH-500-0 |
| NCH-562 |
| NCH-625 |
| NCH-750 |
| NCH-1000 |



| DIAMETER | COLOR | LENGHT (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **STANDARD DUTY** | | | | | |
| 0.125 | Natural | 0.780 | 0.378 | 100 | 1,200 |
| | Black | 0.780 | 0.378 | 100 | 1,200 |
| 0.187 | Natural | 0.780 | 0.378 | 100 | 1,200 |
| | Black | 0.780 | 0.378 | 100 | 1,200 |
| 0.250 | Natural | 0.790 | 0.394 | 100 | 1,200 |
| | Black | 0.790 | 0.394 | 100 | 1,200 |
| 0.312 | Natural | 0.860 | 0.394 | 100 | 1,200 |
| | Black | 0.860 | 0.394 | 100 | 1,200 |
| 0.375 | Natural | 0.940 | 0.375 | 100 | 1,200 |
| | Black | 0.940 | 0.375 | 100 | 1,200 |
| 0.500 | Natural | 1.220 | 0.375 | 100 | 1,200 |
| | Black | 1.220 | 0.375 | 100 | 1,200 |
| **HEAVY DUTY** | | | | | |
| 0.250 | Natural | 0.790 | 0.500 | 100 | 1,200 |
| | Black | 0.790 | 0.500 | 100 | 1,200 |
| 0.312 | Natural | 0.860 | 0.500 | 100 | 1,200 |
| | Black | 0.860 | 0.500 | 100 | 1,200 |
| 0.375 | Natural | 0.940 | 0.472 | 100 | 1,200 |
| | Black | 0.940 | 0.472 | 100 | 1,200 |
| 0.437 | Natural | 1.080 | 0.500 | 100 | 1,200 |
| 0.500 | Natural | 1.220 | 0.472 | 100 | 1,200 |
| | Black | 1.220 | 0.472 | 100 | 1,200 |
| 0.562 | Natural | 1.280 | 0.500 | 100 | 1,200 |
| 0.625 | Natural | 1.350 | 0.472 | 100 | 1,200 |
| 0.750 | Natural | 1.380 | 0.472 | 100 | 1,200 |
| 1.000 | Natural | 1.690 | 0.472 | 100 | 1,200 |

PANEL CHANNEL

# Standard Slot Panel Channel

PC--LS SERIES

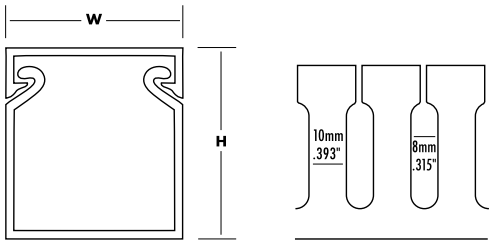


## FEATURES

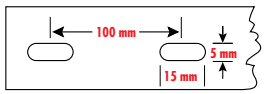
- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires.
- Restricted slot opening is designed to retain wires and allow for breakout when required. Individual wires are easily traced and removed when necessary.
- Scored sidewalls allow for easy break-off of panel channel sections.
- All sizes are supplied with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- Maximum service temperature: 85 °C (185 °F), Tested to UL File up to 50 °C (122 °F). 94V-0 Rated.
- For other sizes, please contact NSi.

## RATINGS

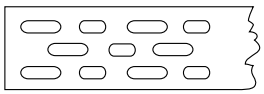
Finger width = 10 mm, slot width = 8 mm.




Mounting holes:
For widths up to 2.5"




For widths over 2.5"



| CAT. NO. |
|---|
| PC1010-LS |
| PC1010-LS-W |
| PC1015-LS |
| PC1020-LS |
| PC1020-LS-W |
| PC1030-LS |
| PC1030-LS-W |
| PC1040-LS |
| PC1040-LS-W |
| PC1515-LS |
| PC1515-LS-W |
| PC1520-LS |
| PC1520-LS-W |
| PC1530-LS |
| PC1530-LS-W |
| PC1540-LS-W |
| PC2010-LS |
| PC2010-LS-W |
| PC2020-LS |
| PC2020-LS-W |
| PC2030-LS |
| PC2030-LS-W |
| PC2040-LS |
| PC2040-LS-W |
| PC3020-LS |
| PC3020-LS-W |
| PC3030-LS |
| PC3030-LS-W |
| PC3040-LS |
| PC3040-LS-W |
| PC4020-LS |
| PC4030-LS |
| PC4030-LS-W |
| PC4040-LS |
| PC4040-LS-W |
| PC6040-LS |
| PC6040-LS-W |



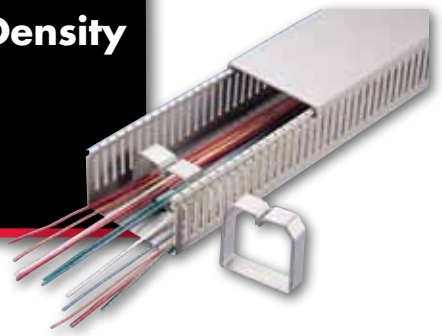


| NOMINAL SIZE | COLOR | LENTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|
| 1 x 1 | Grey | 6' | 6' | 72' |
| 1 x 1 | White | 6' | 6' | 72' |
| 1 x 1 1/2 | Grey | 6' | 6' | 72' |
| 1 x 2 | Grey | 6' | 6' | 72' |
| 1 x 2 | White | 6' | 6' | 72' |
| 1 x 3 | Grey | 6' | 6' | 72' |
| 1 x 3 | White | 6' | 6' | 72' |
| 1 x 4 | Grey | 6' | 6' | 72' |
| 1 x 4 | White | 6' | 6' | 72' |
| 1 1/2 x 1 1/2 | Grey | 6' | 6' | 72' |
| 1 1/2 x 1 1/2 | White | 6' | 6' | 72' |
| 1 1/2 x 2 | Grey | 6' | 6' | 72' |
| 1 1/2 x 2 | White | 6' | 6' | 72' |
| 1 1/2 x 3 | Grey | 6' | 6' | 72' |
| 1 1/2 x 3 | White | 6' | 6' | 72' |
| 1 1/2 x 4 | White | 6' | 6' | 72' |
| 2 x 1 | Grey | 6' | 6' | 72' |
| 2 x 1 | White | 6' | 6' | 72' |
| 2 x 2 | Grey | 6' | 6' | 72' |
| 2 x 2 | White | 6' | 6' | 72' |
| 2 x 3 | Grey | 6' | 6' | 72' |
| 2 x 3 | White | 6' | 6' | 72' |
| 2 x 4 | Grey | 6' | 6' | 72' |
| 2 x 4 | White | 6' | 6' | 72' |
| 3 x 2 | Grey | 6' | 6' | 72' |
| 3 x 2 | White | 6' | 6' | 72' |
| 3 x 3 | Grey | 6' | 6' | 72' |
| 3 x 3 | White | 6' | 6' | 72' |
| 3 x 4 | Grey | 6' | 6' | 72' |
| 3 x 4 | White | 6' | 6' | 72' |
| 4 x 2 | Grey | 6' | 6' | 72' |
| 4 x 3 | Grey | 6' | 6' | 72' |
| 4 x 3 | White | 6' | 6' | 72' |
| 4 x 4 | Grey | 6' | 6' | 72' |
| 4 x 4 | White | 6' | 6' | 72' |
| 6 x 4 | Grey | 6' | 6' | 72' |
| 6 x 4 | White | 6' | 6' | 72' |

PANEL CHANNEL

# Narrow Finger, High Density Panel Channel

PC--LSN SERIES

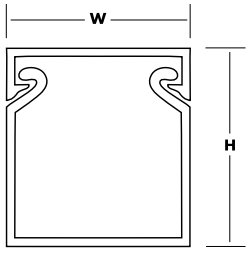


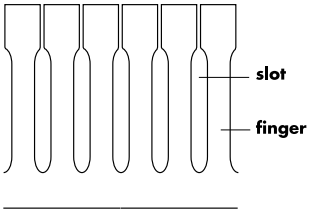
## FEATURES

- Narrower finger width is 6mm.
- Slot width is 4mm.
- Made from high-impact, self-extinguishing, warp-proof PVC.
- Optional adhesive backing is available.
- Maximum service temperature: 85 °C (185 °F).
- Tested to UL File up to 50 °C (122 °F). 94V-0 rated.
- 5mm slot width is available in both white and grey for 1020, 2020, 2030, 2040

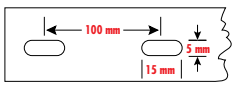
## RATINGS



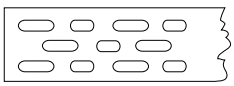


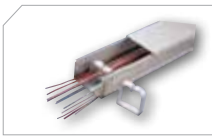

**Mounting holes:**
**For widths up to 2.5″**




**For widths over 2.5″**



| CAT. NO. |
|---|
| PC.75.75-LSN |
| PC1010-LSN |
| PC1010-LSN-W |
| PC1015-LSN |
| PC1015-LSN-W |
| PC10175-LSN |
| PC10175-LSN-W |
| PC1020-LSN |
| PC1020-LSN-W |
| PC10250-LSN |
| PC1030-LSN |
| PC1030-LSN-W |
| PC1515-LSN |
| PC1520-LSN |
| PC1520-LSN-W |
| PC1530-LSN |
| PC1540-LSN |
| PC175175-LSN |
| PC2020-LSN |
| PC2020-LSN-W |
| PC2030-LSN |
| PC2030-LSN-W |
| PC2040-LSN |
| PC3020-LSN |
| PC3020-LSN-W |
| PC3030-LSN |
| PC3040-LSN |
| PC4020-LSN-W |
| PC4030-LSN |
| PC4040-LSN |



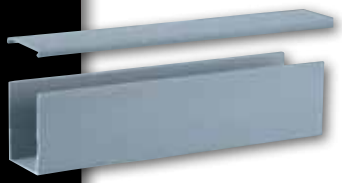


| NOMINAL SIZE | COLOR | LENTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|
| 3/4 x 3/4 | Grey | 6' | 6' | 72' |
| 1 x 1 | Grey | 6' | 6' | 72' |
| 1 x 1 | White | 6' | 6' | 72' |
| 1 x 1 1/2 | Grey | 6' | 6' | 72' |
| 1 x 1 1/2 | White | 6' | 6' | 72' |
| 1 x 1 3/4 | Grey | 6' | 6' | 72' |
| 1 x 1 3/4 | White | 6' | 6' | 72' |
| 1 x 2 | Grey | 6' | 6' | 72' |
| 1 x 2 | White | 6' | 6' | 72' |
| 1 x 2 1/2 | Grey | 6' | 6' | 72' |
| 1 x 3 | Grey | 6' | 6' | 72' |
| 1 x 3 | White | 6' | 6' | 72' |
| 1 1/2 x 1 1/2 | Grey | 6' | 6' | 72' |
| 1 1/2 x 2 | Grey | 6' | 6' | 72' |
| 1 1/2 x 2 | White | 6' | 6' | 72' |
| 1 1/2 x 3 | Grey | 6' | 6' | 72' |
| 1 1/2 x 4 | Grey | 6' | 6' | 72' |
| 1 3/4 x 1 3/4 | Grey | 6' | 6' | 72' |
| 2 x 2 | Grey | 6' | 6' | 72' |
| 2 x 2 | White | 6' | 6' | 72' |
| 2 x 3 | Grey | 6' | 6' | 72' |
| 2 x 3 | White | 6' | 6' | 72' |
| 2 x 4 | Grey | 6' | 6' | 72' |
| 3 x 2 | Grey | 6' | 6' | 72' |
| 3 x 2 | White | 6' | 6' | 72' |
| 3 x 3 | Grey | 6' | 6' | 72' |
| 3 x 4 | Grey | 6' | 6' | 72' |
| 4 x 2 | White | 6' | 6' | 72' |
| 4 x 3 | Grey | 6' | 6' | 72' |
| 4 x 4 | Grey | 6' | 6' | 72' |

PANEL CHANNEL

# Solid Wall Panel Chanel, Floor Duct

PC, FD SERIES



## SOLID WALL PANEL CHANNEL

- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires where wire extraction is not necessary.
- Supplied complete with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- Maximum service temperature: 85 °C (185 °F).
- Tested to UL File up to 50 °C (122 °F). 94V-0 Rated.
- For other sizes, please contact NSi.

| CAT. NO. | COLOR | NOMINAL SIZE (IN) | LENGTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **PC2020** | Grey | 2 x 2 | 6' | 6' | 72' |
| **PC2030** | Grey | 2 x 3 | 6' | 6' | 72' |
| **PC3030** | Grey | 3 x 3 | 6' | 6' | 72' |
| **PC4040** | Grey | 4 x 4 | 6' | 6' | 72' |

## FLOOR DUCT

- 2.5" and 4" wide floor duct for use as safe temporary enclosure of electrical cords, data communications cables and other objects that present a trip hazard.
- Manufactured using soft PVC.



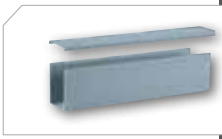
| CAT. NO. | NOMINAL SIZE (IN.) | COLOR | LENGTH (FT.) | WIDTH (IN) | | HEIGHT (IN) | | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ID | OD | ID | OD | | |
| **FD250W** | 2.5" | Off White | 6' | 0.750 | 2.600 | 0.430 | 0.600 | 6' | 18' |
| **FD250B** | | Brown | 6' | 0.750 | 2.600 | 0.430 | 0.600 | 6' | 18' |
| **FD250K** | | Black | 6' | 0.750 | 2.600 | 0.430 | 0.600 | 6' | 18' |
| **FD400W** | 4" | Off White | 6' | 1.160 | 4.000 | 0.610 | 0.910 | 6' | 18' |
| **FD400B** | | Brown | 6' | 1.160 | 4.000 | 0.610 | 0.910 | 6' | 18' |
| **FD400K** | | Black | 6' | 1.160 | 4.000 | 0.610 | 0.910 | 6' | 18' |

WIRE MARKING / ID

# Cable Marker Plates & Wire Marker Dispensers

MP, WLD SERIES





## CABLE MARKER PLATES

- Mark-Pro™ cable marker plates provide reliable method of identification of larger cables and bundles.
- They can be installed using standard nylon tie wraps.
- A fine tip permanent marker is recommended.
- Manufactured using natural colored nylon.

| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|
| **MP-2** | 1.58 | 0.790 | 100 | 1000 |
| **MP-3** | 2.36 | 1.000 | 100 | 1000 |

## WIRE MARKER DISPENSERS

- Permanent markers are recommended for writing on these vinyl self laminating labels, backed with an acrylic adhesive.

**TEMPERATURE RATING:**
-40 °C to 121.1 °C (-40 °F to 250 °F).
UL 969.




| CAT. NO. | WHITE-ON AREA | LENGHT (IN.) | WIDTH (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **WLD-1** | 0.75 x 0.31 | 0.75 | 1.250 | 1 |
| **WLD-2** | 0.75 x 0.50 | 0.75 | 1.880 | 1 |
| **WLD-3** | 0.75 x 0.75 | 0.75 | 3.000 | 1 |

# Roll Label Dispenser & Industrial Tapes

RLD, IT-BW SERIES



## ROLL LABEL DISPENSER

- Reusable, refillable, compact and convenient, roll label dispensers provide 760 1-1/4" markers per dispenser.
- Made of tough tyvek material with an excellent acrylic adhesive and a silicone release liner.

**TEMPERATURE RATING:**
-40 °C to 121.1 °C (-40 °F to 250 °F).
UL 969.

| CAT. NO. | LABEL LEGEND | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|
| **RLD-1** | 0 - 9 | 1 | 1 |

## POLYESTER INDUSTRIAL TAPES

- A high performance label stock.
- 2 mil pressure sensitive polyester and thermal transfer resin ribbon in a cartridge.
- Up to seven year exterior life.
- Chemical, water, UV and abrasion resistant.

**TEMPERATURE RATING:**
-40 °C to 121.1 °C (-40 °F to 250 °F).




| CAT. NO. | SIZE | DESCRIPTION | LENGHT (FT.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **IT3/4-BW** | 3/4" | Black on White | 26' | 0.750 | 1 | 1 |
| **IT1-BW** | 1" | Black on White | 26' | 1.000 | 1 | 1 |

WIRE MARKING / ID

# Pocket Pal Marker Books

WMB SERIES






## FEATURES

- Convenient NSi wire marker books made with vinyl impregnated cloth.
- A strong adhesive ensures the marking will last.
- Printed with black legends on a white background.
- Each book contains 450 wire markers.

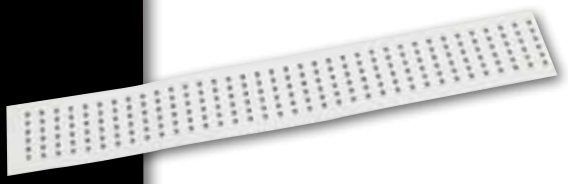
## RATINGS

**TEMPERATURE RATING:**
-40 °C to 121.1 °C (-40 °F to 250 °F).

| CAT. NO. | LEGEND | MARKERS PER BOOK | STD. CTN. QTY. |
|---|---|---|---|
| **WMB-1** | 0-9 | 45 | 12 |
| **WMB-2** | A-Z, 0-15 +,-,/ | 10 | 12 |
| **WMB-3** | 0-45 | 10 | 12 |
| **WMB-4** | 1,2,3 | 150 Each | 12 |
| **WMB-5** | A,B,C | 150 Each | 12 |
| **WMB-6** | T1,T2,T3 | 150 Each | 12 |
| **WMB-7** | L1,L2,L3 | 150 Each | 12 |
| **WMB-8** | 1-15<br>16-90<br>A-Z,+,-,/,0 | 6 Each<br>4 Each<br>2 Each | 12 |
| **WMB-9** | 1,2,3<br>A,B,C<br>L1,L2,L3<br>T1,T2,T3 | 45 Each<br>45 Each<br>30 Each<br>30 Each | 12 |
| **WMB-10** | 10 Nema Colors | 45 Each | 12 |
| **WMB-11** | 1-30 | 15 Each | 12 |
| **WMB-12** | A-Z<br>Blank<br>+<br>- | 15 Each<br>45 Each<br>8 Each<br>7 Each | 12 |
| **WMB-13** | +,-,AC,DC<br>POS,NEG,GND<br>NEUT<br>Spare,Blank | 45 Each<br>33 Each<br>27 Each<br>21 Each | 12 |
| **WMB-14** | 0-9<br>L1,L2,L3<br>T1,T2,T3 | 45 Each<br>15 Each<br>15 Each | 12 |
| **WMB-15** | 46-90 | 10 Each | 12 |
| **WMB-20** | 1 X 6 Blank<br>(1 x 1 Write on Area) | 30 Each | 12 |
| **WMB-21** | 1 x 3 Blank<br>(1x0.75 Write on Area) | 60 Each | 12 |
| **WMB-LC** | Load Center | 90 Each | 12 |

# Easy Release Wire Marker Cards

## WMC SERIES



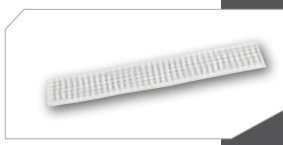
## FEATURES

- NSi wire marker cards are made from vinyl impregnated cloth with pressure sensitive adhesive.
- Each marker is 1-1/2" long and is mounted on easy release dispenser cards for quick, easy identification.
- Standard carton quantity of 25.

| CATALOG NO | SYMBOL | CATALOG NO | SYMBOL |
|---|---|---|---|
| **WMC-0** | 0 | **WMC-37** | 37 |
| **WMC-1** | 1 | **WMC-38** | 38 |
| **WMC-2** | 2 | **WMC-39** | 39 |
| **WMC-3** | 3 | **WMC-40** | 40 |
| **WMC-4** | 4 | **WMC-41** | 41 |
| **WMC-5** | 5 | **WMC-42** | 42 |
| **WMC-6** | 6 | **WMC-43** | 43 |
| **WMC-7** | 7 | **WMC-44** | 44 |
| **WMC-8** | 8 | **WMC-45** | 45 |
| **WMC-9** | 9 | **WMC-46** | 46 |
| **WMC-10** | 10 | **WMC-73** | 73 |
| **WMC-11** | 11 | **WMC-81** | 81 |
| **WMC-12** | 12 | **WMC-104** | 104 |
| **WMC-13** | 13 | **WMC-1-33** | 1-33 |
| **WMC-14** | 14 | **WMC-34-66** | 34-66 |
| **WMC-15** | 15 | **WMC-67-99** | 67-99 |
| **WMC-16** | 16 | **WMC-100-124** | 100-124 |
| **WMC-17** | 17 | **WMC--** | -- |
| **WMC-18** | 18 | **WMC-A** | A |
| **WMC-19** | 19 | **WMC-B** | B |
| **WMC-20** | 20 | **WMC-C** | C |
| **WMC-21** | 21 | **WMC-D** | D |
| **WMC-22** | 22 | **WMC-E** | E |
| **WMC-23** | 23 | **WMC-F** | F |
| **WMC-24** | 24 | **WMC-G** | G |
| **WMC-25** | 25 | **WMC-H** | H |
| **WMC-26** | 26 | **WMC-I** | I |
| **WMC-27** | 27 | **WMC-N** | N |
| **WMC-28** | 28 | **WMC-S** | S |
| **WMC-29** | 29 | **WMC-W** | W |
| **WMC-30** | 30 | **WMC-X** | X |
| **WMC-31** | 21 | **WMC-Y** | Y |
| **WMC-32** | 32 | **WMC-Z** | Z |
| **WMC-35** | 35 | **WMC-A-Z** | A-Z |
| **WMC-36** | 36 | | |
| **WMC-33** | 33 | | |
| **WMC-34** | 34 | | |

# Voltage Markers

## VM SERIES





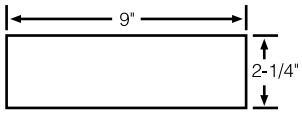



## FEATURES

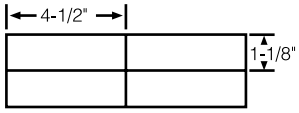
- Pressure-sensitive vinyl markers for marking power lines, conduit bus, fuse boxes, switches and other electrical equipment, stocked in three convenient sizes.
- Standard Carton Quantity of 25.
- Black lettering on orange background.

## STYLES

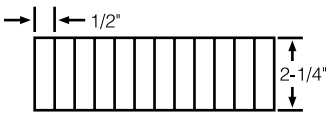
Style A



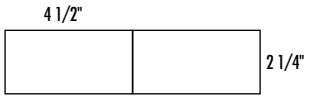

Style B




Style C




Style D




| CAT. NO. | SYMBOL | CAT. NO. | SYMBOL |
|---|---|---|---|
| **VM-A-3** | 120 Volts | **VM-B-32** | Three Phase |
| **VM-A-4** | 208 Volts | **VM-B-35** | 120V to 208V |
| **VM-A-5** | 220 Volts | **VM-B-36** | 120V to 240V |
| **VM-A-7** | 240 Volts | **VM-B-37** | 277V to 480V |
| **VM-A-9** | 277 Volts | **VM-B-48** | Danger High Voltage |
| **VM-A-11** | 440 Volts | **VM-B-49** | 24 Volts |
| **VM-A-12** | 460 Volts | **VM-C-1** | 110 Volts |
| **VM-A-13** | 480 Volts | **VM-C-3** | 120 Volts |
| **VM-A-15** | 600 Volts | **VM-C-4** | 208 Volts |
| **VM-A-18** | 2400 Volts | **VM-C-5** | 220 Volts |
| **VM-A-19** | 4160 Volts | **VM-C-7** | 240 Volts |
| **VM-A-20** | 4800 Volts | **VM-C-9** | 277 Volts |
| **VM-A-25** | 12470 Volts | **VM-C-11** | 440 Volts |
| **VM-A-27** | 13200 Volts | **VM-C-12** | 460 Volts |
| **VM-A-28** | 13800 Volts | **VM-C-13** | 480 Volts |
| **VM-A-30** | Single Phase | **VM-C-15** | 600 Volts |
| **VM-A-32** | Three Phase | **VM-C-19** | 4160 Volts |
| **VM-A-35** | 120V to 208V | **VM-C-20** | 4800 Volts |
| **VM-A-36** | 120V to 240V | **VM-C-25** | 12470 Volts |
| **VM-A-37** | 277V to 480V | **VM-C-30** | Single Phase |
| **VM-A-48** | Danger High Voltage | **VM-C-32** | Three Phase |
| **VM-A-49** | 24 Volts | **VM-C-35** | 120V to 208V |
| **VM-B-1** | 110 Volts | **VM-C-36** | 120V to 240V |
| **VM-B-3** | 120 Volts | **VM-C-37** | 277V to 480V |
| **VM-B-4** | 208 Volts | **VM-C-48** | Danger High Voltage |
| **VM-B-5** | 220 Volts | **VM-C-49** | 24 Volts |
| **VM-B-7** | 240 Volts | **VM-D-48** | Danger High Voltage |
| **VM-B-9** | 277 Volts | | |
| **VM-B-13** | 480 Volts | | |
| **VM-B-15** | 600 Volts | | |
| **VM-B-27** | 13200 Volts | | |
| **VM-B-28** | 13800 Volts | | |
| **VM-B-30** | Single Phase | | |

LOCKOUT / TAGOUT

# Self-Adhesive Labels and Spiral Wrap

VL, DSS, SR SERIES




## FEATURES

- Self-adhesive labels are sub-surface printed polyester labels.
- Rigid signs are available in either polycarbonate or polyester material.

**CAUTION**

In Accordance with OSHA Standard 1910.147, All Equipment, Machines and Processes Shall Be Locked Out Prior to Servicing. Lockout Procedures are Posted in the Main Operating Area and/or by the Main Energy Source of Each Machine. If You Have any Questions About the Lockout Procedures, Please See Your Supervisor or the Safety Director. This Standard Will Be Strictly Enforced.

| CAT. NO. | LEGEND | SIZE (IN.) | STD. CTN. QTY. |
|---|---|---|---|
| **VL-4** | Remove All Doubt. Lock it Out. | 2 1/4 x 4 1/2 | 25 |
| **VL-7** | Warning Potential Arc-Flash Hazards Exist While Working on this Energized Equipment | 2 1/4 x 4 1/2 | 25 |
| **DSS-5** | High Voltage | 10 x 14 | 25 |
| **DSS-6** | High Voltage Keep Out | 10 x 14 | 25 |

## SPIRAL WRAP

- Permits flexible routing of cable harnesses while forming a neat, protective bundle.
- Twists on easily and allows lead-outs at any point.

**POLYETHYLENE**

- For general indoor use with good resistance to ordinary solvents and abrasion.

**UV POLYETHYLENE**

- Ultraviolet resistance for general outdoor use with good resistance to ordinary solvents and abrasion.

**NYLON**

- For use in wider temperature ranges with high resistance to abrasion and good solvent resistance.



| CAT. NO. | COLOR | MATERIAL | O.D. | I.D. | BUNDLE RANGE | LENGTH (FT.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **SRPE-250** | Natural | Polyethylene | 0.236 | 0.157 | 0.157 - 1.97 | 100 | 1 |
| **SRPE-375** | Natural | Polyethylene | 0.393 | 0.295 | 0.295 - 2.36 | 100 | 1 |
| **SRPE-500** | Natural | Polyethylene | 0.472 | 0.354 | 0.354 - 2.56 | 100 | 1 |
| **SRPE-2500** | Black | UV Polyethylene | 0.236 | 0.157 | 0.157 - 1.97 | 100 | 1 |
| **SRPE-3750** | Black | UV Polyethylene | 0.393 | 0.295 | 0.295 - 2.36 | 100 | 1 |
| **SRPE-5000** | Black | UV Polyethylene | 0.472 | 0.354 | 0.354 - 2.56 | 100 | 1 |

# Detectable Underground Line and Barricade Tapes

## ULT, ULTD, BT SERIES









## FEATURES

### DETECTABLE UNDERGROUND LINE TAPE

- Consists of a minumum 5 mil overall thickness with no less than a 35 gauge solid aluminum foil core, which allows for easy detection. Specially formulated to resist degradation by elements normally encountered in soil. All printing is encased to avoid ink rub-off with environmentally safe ink. Custom lengends are available, contact NSi for details.

| CAT. NO. | COLOR | LEGEND | LENGTH (FT.) | WIDTH (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **ULTD-327** | Red | Caution Buried Electric Line Below | 1000 | 3 | 8 |
| **ULTD-342** | Orange | Caution Buried Fiber Optic Line Below | 1000 | 3 | 8 |
| **ULTD-343** | Yellow | Caution Buried Communication Line Below | 1000 | 3 | 8 |
| **ULTD-626** | Yellow | Caution Buried Electric Line Below | 1000 | 6 | 4 |
| **ULTD-627** | Red | Caution Buried Electric Line Below | 1000 | 6 | 4 |
| **ULTD-636** | Orange | Caution Buried Telephone Line Below | 1000 | 6 | 4 |
| **ULTD-643** | Yellow | Caution Buried Communication Line Below | 1000 | 6 | 4 |

### BARRICADE TAPE

- Made of long lasting, non-adhesive polyethylene for exceptional quality, durability and performance. Used above ground to mark off hazards. Supplied in 1,000 ft. rolls.

### UNDERGROUND LINE TAPE

- Underground tapes are impervious to alkalines, acids and other soil components for the protection, location and identification of underground utility installations. Consists of a 4 mil overall thickness, inert 100 percent virgin low-density polyethylene plastic film formulated for underground use and environmentally safe ink. Custom legends are available, contact NSi for details.

1




2




| CAT. NO. | FIG. NO. | COLOR | LEGEND | USE | LENGTH (FT.) | WIDTH (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **BT-305** | 1 | Yellow | Caution | Above ground | 1000 | 3 | 8 |
| **BT-308** | 1 | Yellow | Caution Do Not Enter | Above ground | 1000 | 3 | 8 |
| **ULT-326** | 2 | Yellow | CautionBuried Electric Line Below | Underground | 1000 | 3 | 8 |
| **ULT-327** | 2 | Red | CautionBuried Electric Line Below | Underground | 1000 | 3 | 8 |
| **ULT-626** | 2 | Yellow | CautionBuried Electric Line Below | Underground | 1000 | 6 | 4 |
| **ULT-627** | 2 | Red | CautionBuried Electric Line Below | Underground | 1000 | 6 | 4 |


nsi


ck 136
eStop
TUMESCENT CAULK
PUTTY P
6" x 7" x 1/8" (15
RECTORSEAL® Metacaulk® Fire Rated P
cal boxes to reduce sound transmission and t
e walls restricting the passage of smoke, flame
Remove liner from one side of pad. Align with the side
the stud and adhere. Work pad to the opposite
(2) If wall membrane is in place, pack putty
n box and gypsum board slightly
d surface. If membrane is to
n, overlap front edge of
d around edges of box
fit around cond
bottom,
ply to
rireStop
PILLOW
2 x 4 x 8 inches (50 x 100 x 200 mm)
DO NOT OPEN OR TEAR PLASTIC

# FIRESTOP™

FIRESTOP™

# Residential & Commercial Caulk, Pillows & Putty Pads

## FS SERIES

## FEATURES

- See individual features for each product below.

1




2




3




4




5



## RATINGS

| CAT. NO. | FIG. NO. | DESCRIPTION | WEIGHT (OZ) | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **FSIC-10** | 1 | FireStop™ Intumescent Caulk | 10 | – | – | – | 12 |
| **FS-814** | 2 | FireStop814™Residential and Commercial | 10 | – | – | – | 12 |
| **FS-136** | 3 | FireBlok136™ Residential Fire Block | 10 | – | – | – | 12 |
| **FSP** | 4 | Firestop Pillows | – | 8.000 | 4.000 | 2.000 | 25 |
| **FSPP-1** | 5 | Fire Rated Putty Pad | – | 6.000 | 7.000 | – | 20 |
| **FSPP-2** | 5 | Fire Rated Putty Stick Pad | – | 7.000 | 7.000 | – | 20 |

## FireStop™ INTUMESCENT CAULK

FireStop™ Intumescent Caulk is water-based, single component elastomeric sealant intended for use as a firestop system component. It forms an economical yet durable, flexible and watertight bond with most construction materials. It is applied independently for "caulk and walk" systems or over mineral wool or backer rod to seal the openings where building services such as pipes and cables penetrate fire rated assemblies. Will not crack or crumble as the physical properties remain stable over time. It tools easily and cleans up with water. May be applied by caulking gun or trowel. ASTM–E 814 and UL 1479.






## FireStop814™ CAULK

FireStop814™ Fire stopping caulk is a single component, non-combustible, non-intumescent material for residential and commercial applications. Colored red for easy inspection, FireStop814 creates an effective barrier against flames, smoke, and toxic gasses and has superior adhesion and gunnability. FireStop814 is for use in annular spaces around wires and pipes, in one- and two-hour fire rated assemblies. It restores the integrity of firestops in residential and commercial construction. Meets UL 1479/ ASTM-E814 standards.

## FireBlock136™ CAULK

FireBlock136™ Fire-blocking caulk is a single component, non-combustible material for residential applications. Colored red for easy inspection, FireBlock136 creates an effective barrier against flames, smoke, and toxic gasses and has superior adhesion and gunnability. FireBlock136 is for use in annular spaces around wires, pipes, ducts, vents and other penetrating items at ceiling and floor openings; and room to room in wood and steel frame constructions. It restores the integrity of fireblocks in one and two family construction. Exceeds ASTM-E136 standards for fireblocking residential requirements prescribed by all major-model building codes, and also meets or exceeds requirements of UBC, BOCA, SBC, IRC, NYS and MA codes. Meets UL 1479/ ASTM-E136 standards.

## FIRE RATED PUTTY PADS

NSi Fire Rated Putty is a moldable non-curing, one-component fire rated material for through penetration fire stop systems. In the event of a fire, Putty will expand when exposed to fire, forming an insulating char, which prevents the spread of flames, smoke, gas and water through penetration openings. Installation is easy as there are no additives, there is no mixing and no curing time is required. The putty is applied by hand and adheres to all common building surfaces. Putty can be installed in confined or occupied spaces since there are no volatile solvents or asbestos fillers.
NSi Putty systems are rated up to 3 hours in accordance with ASTM E 814, UL 1479 and ULC/CAN4-S115-M standards. NSi Fire Rated Putty is available in sticks or pads. Moldable Putty Pads are available in two sizes, 6″ x 7″ x 1/8″ or 7″ x 7″ x 1/8″, and are classified as a wall opening protective material. Use them to protect metal electrical cabinets, outlet boxes and mechanical cabinets. STC Rating 49.

## FireStop™ PILLOWS

FireStop™ Pillows are a single step firestop system component. Intended for wall and/or floor openings through fire separations where temporary or permanent firestops are required. They are ideal where cable retrofitting is frequent and anticipated. Quick and clean single product installation. Self-supporting – no wire lath or mesh is required. They are to be packed tightly into the voids between penetrating items and the perimeter of the opening. During a fire, the intumescent component within each pillow dramatically expands to seal the opening from fire, thereby maintaining the integrity of the fire separation. FireStop Pillows consist of an intumescent layer sandwiched between non-combustible insulation, all enclosed in a hermetically sealed polyethylene shell. No sealant or putty is required. Easy to install, easy to remove – a quick and clean single product installation. ASTM E 814 and UL 1479.

## CONDUIT AND EMT

| MAX.PEN. DIA. | RATING (HR.) | MAX. OPENING | FLOOR OR WALL SYSTEM | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS | SYSTEM NO. | PAGE NO. |
|---|---|---|---|---|---|---|---|
| 6 in. conduit & EMT or smaller | 2 | 0 in to 7/8 in. annulus | Floor - concrete (2-1/2 in. min.), Wall - concrete, concrete block or precast units | NSi FireStop Intumescent Caulk | Min. 1/4 in. thick within annulus flush with top of floor or both surfaces of wall | C-AJ-1511 | 212 |
| 6 in. conduit & EMT or smaller | 2 | 0 in. to 1/2 in. annulus | Wall – gypsum board | NSi FireStop Intumescent Caulk | Min. 1-1/4 in. thick within annulus flush with both surfaces of wall | W-L-1349 | 212 |
| 6 in. conduit & EMT or smaller | 1 | 1/4 in. to 1/2 in. annulus | Wall – gypsum board | NSi FireStop Intumescent Caulk | Min. 5/8 in. thick within annulus flush with both surfaces of wall | W-L-1351 | 213 |
| 3 in. conduit & EMT or smaller | 2 | 0 in. to 1-3/4 in. annulus | Wall – gypsum board | NSi FireStop Intumescent Caulk | Min. 1-1/4 in. thick within annulus flush with both surfaces of wall | W-L-1348 | 214 |
| 4 in. conduit & EMT or smaller | 1 | 0 in. to 1/2 in. annulus | Floor – lumber Ceiling – gypsum board | NSi FireStop Intumescent Caulk | Min. 3/4 in. thick within annulus on top of floor Min. 5/8 in. thick within annulus on bottom surface of ceiling | F-C-1128 | 214 |

## CABLE LARGER OPENINGS

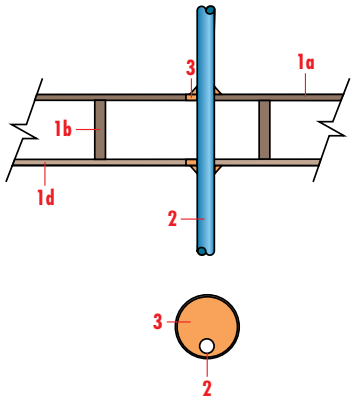
| TYPE OF PENETRATION | RATING (HR.) | MAX. OPENING | FLOOR OR WALL SYSTEM | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS | SYSTEM NO. | PAGE NO. |
|---|---|---|---|---|---|---|---|
| Coaxial, fiber optic & 24 AWG | 3 | 288 sq. in. | Floor – concrete, Wall - concrete or concrete block | NSi FireStop Pillows | Installed with 8 in. dimension projecting through floor or wall & centered within opening | C-AJ-4073 | 215 |
| Coaxial, fiber optic, 24 AWG & data cable | 3 | 288 sq. in. | Floor – concrete, Wall – concrete or concrete block | NSi FireStop Pillows | Installed with 8 in. dimension projecting through floor or wall & centered within opening | C-AJ-4074 | 216 |
| Cables | 1 | 0 in. to. 1/4 in annulus | Floor – lumber Ceiling – gypsum board | NSi FireStop Intumescent Caulk | Min. 1-1/4 in. thick within annulus on top of floor Min. 1/2 in. thick within annulus on bottom surface of ceiling | F-C-3084 | 216 |

## NON-METALLIC CONDUIT

| MAX.PEN. DIA. | RATING (HR.) | MAX. OPENING | FLOOR OR WALL SYSTEM | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS | SYSTEM NO. | PAGE NO. |
|---|---|---|---|---|---|---|---|
| 2, PVC, CPVC, ABS & Rigid conduit or smaller | 1 | 1/4 in. | Floor – lumber Ceiling - gypsum board | NSi FireStop Intumescent Caulk | Min. 3/4 in. thick within annulus on top of floor. Min. 5/8 in. thick within annulus on bottom surface of ceiling | F-C-2297 | 215 |

## UL SYSTEM NO. F-C-3084

F Rating – 1 hr., T Ratings – 3/4 hr. and 1 hr. (See Item 2)




1. **Floor-Ceiling Assembly –** The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design No. L512, L513 or L514 in the UL Fire Resistance Directory and shall include the following construction features:
   a) Flooring System – Lumber or minimum 1/2 in. plywood subfloor with lumber or minimum 3/4 in. plywood finish floor or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5/8 in.
   b) Wood Joists – Nom. 2 x 10 in. lumber joists, spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped.
   c) Furring Channels (not shown) – Resilient galv. steel furring installed perpendicular to wood joist between wallboard and wood joist and spaced maximum 24 in. oc.
   d) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Wallboard attached to wood joists or furring channels as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 5/8 in.

2. **Cables –** One cable to be installed either eccentrically or concentrically in opening with annular space between the cable and periphery of opening of min. 0 in. (point of contact) to maximum 14 in. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types of cables may be used:
   a) Maximum 3/C (with ground) No. 12 AWG (or smaller) with polyvinyl chloride (PVC) insulation and jacket.
   b) Maximum 3/C (with ground) No. 14 AWG (or smaller) with PVC jacketed aluminium or steel clad, Type RW90.
   c) Type RG6U coaxial cable with fluorinated ethylene propylene insulation and jacket.
   d) Maximum 2/C (with ground) No. 14 AWG (or smaller), type NM90, with nylon jacket.
   e) Maximum 8/C No. 24 AWG (or smaller), type CMR MPR, with polyvinyl chloride (PVC) insulation and jacket.

   The T Rating of the firestop system is dependent upon the type of cable used, as tabulated below:

| CABLE TYPE | T-RATING (HR.) |
|---|---|
| a, b, c and e | 1 |
| d | 3/4 |

3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. On top of assembly, a minimum 1-1/4 in. thickness of fill material applied within the annulus on top surface of floor. On bottom assembly, a minimum 1/2 in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum 1/2 in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.

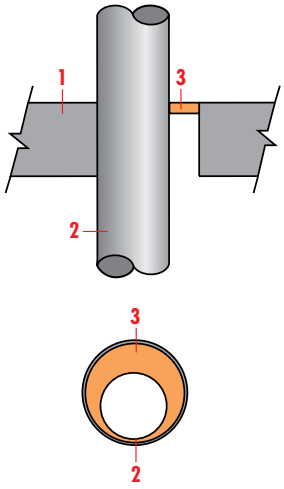
## UL SYSTEM NO. C-AJ-1511

F Rating – 2 hr., T Rating – 0 hr.

1. **Floor or wall assembly –** Minimum 2 1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor. Floor may also be constructed of any minimum 6 in. thick UL Classified hollow-core precast concrete units. Wall may also be constructed of any UL Classified concrete blocks. Maximum diameter of opening is 24 7/8 in. Maximum diameter of opening in floors constructed of hollow-core is 7 in. See Concrete Blocks (CAZT) or Precast Concrete Units (CFTV) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space between the pipe or conduit and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 7/8 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
   a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
   b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
   c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
   d) Copper pipe or tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.

3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. Minimum 1/2 in. thickness of caulk applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors constructed of hollow-core precast concrete units, fill material installed symmetrically on both sides of floor. Additional material installed to form a minimum 1/4 in. crown bead at the point contact location between the pipe and periphery of the opening. For vertical installations, sealant to be applied symmetrically on both sides of wall.



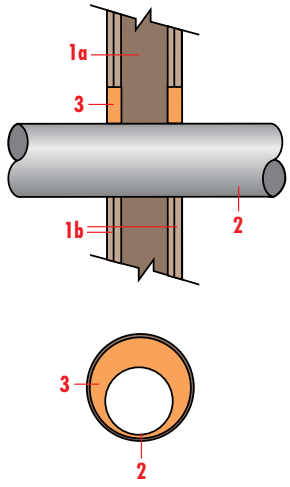

## UL SYSTEM NO. W-L-1349

F Rating – 2 hr., T Rating – 0 hr.

1. **Wall Assembly –** The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   b) Wallboard, Gypsum – 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 6 5/8 in.

2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1/2 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
   a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
   b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
   c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
   d) Copper Tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
   e) Copper Pipe – Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.

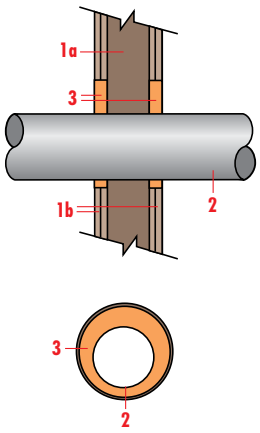
3. **Fill, void or cavity material –** Sealant – NSi FireStop Intumescent Caulk. Minimum 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wall board, a minimum 1/2 in. diameter bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.



## UL SYSTEM NO. W-L-1351

F Rating – 1 hr., T Rating – 0 hr.

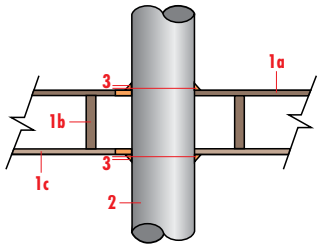
1. **Wall Assembly –** The 1 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   b) Wallboard, Gypsum – 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 24 3/4 in. for steel stud walls. Maximum diameter opening is 14 1/2 in. for wood stud walls.
2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 1/4 in. to a maximum of 1/2 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
   a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
   b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
   c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
   d) Copper Tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
   e) Copper Pipe – Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. **Fill, void or cavity material –** Sealant – NSi FireStop Intumescent Caulk. Minimum 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.




## UL SYSTEM NO. W-L-1128

F Rating – 1 hr., T Rating – 0 hr.

1. **Floor-Ceiling Assembly –** The 1 hr. fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory and shall include the following construction features:
   a) Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5 in.
   b) Wood Joists – Nom. 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and with ends firestopped.
   c) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Wallboard nailed to wood joists.
2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1/2 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
   a) Steel pipe – Nom. 4 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
   b) Iron pipe – Nom. 4 in. diameter (or smaller) cast or ductile iron pipe.
   c) Conduit – Nom. 4 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
   d) Copper Tubing – Nom. 4 in. diameter (or smaller) Type L (or heavier) copper tubing.
   e) Copper Pipe – Nom. 4 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. Minimum 3/4 in. thickness of fill material applied within the annulus on top surface of floor. Minimum 5/8 in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum 1/2 in. thick crown is formed around the through penetrant on top surface of floor-ceiling assembly.



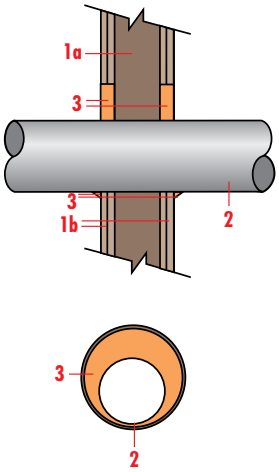
## UL SYSTEM NO. W-L-1348

F Rating – 2 hr., T Rating – 0 hr.

1. **Wall Assembly –** The 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. with nom. 2 x 4 in. lumber end plates and cross braces. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item, such that when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   b) Wallboard, Gypsum – 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 5 in.

2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
   a) Steel pipe – Nom. 3 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
   b) Conduit – Nom. 3 in. diameter (or smaller) steel electrical metallic tubing or galv. steel conduit.
   c) Copper Tubing – Nom. 3 in. diameter (or smaller) Type L (or heavier) copper tubing.
   d) Copper Pipe – Nom. 3 in. diameter (or smaller) Regular (or heavier) copper pipe.

3. **Fill, void or cavity material –** Sealant – NSi FireStop Intumescent Caulk. Minimum 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wall board, a minimum 3/8 in. diameter bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.







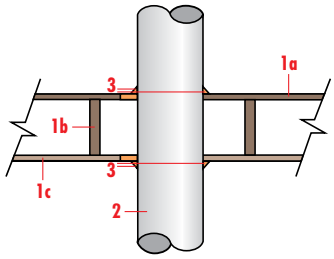
## UL SYSTEM NO. F-C-2297

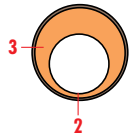
F Rating – 1 hr., T Rating – 0 hr.

1. **Floor-Ceiling Assembly –** The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L505, L511, or L536 Designs in the UL Fire Resistance Directory and shall include the following construction features:
   a) Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of opening is 2.875 in.
   b) Wood Joists – Nom. 2 x 10 in. lumber joists spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped
   c) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 2.875 in.

2. **Through Penetrant –** One nonmetallic pipe or conduit to be installed approximately midway between wood joists and centered within the firestop system. Diameter of openings hole-sawed through flooring system and one layer through gypsum wallboard ceiling to be nom. 1/2 in. larger than the outside diameter of through penetrant. Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
   a) Polyvinyl Chloride (PVC) Pipe – Nom. 2 in. diameter (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
   b) Acrylonitrile Butadiene Styrene (ABS) Pipe – Nom. 2 in. diameter (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
   c) Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom. 2 in. diameter (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
   d) Rigid Nonmetallic Conduit – Nom. 2 in. diameter (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. Minimum 3/4 in. thickness of fill material applied within the annulus on top surface of floor. Minimum 5/8 in. thickness of fill material applied within annulus on bottom surface of ceiling or top plate of chase wall assembly. Additional fill material to be installed such that a minimum 1/8 in. thick crown is formed around the through penetrant on top surface of floor-ceiling assembly.






## UL SYSTEM NO. C-A-4073

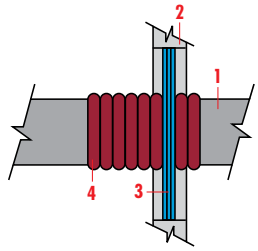
F Rating – 3 hr., T Rating – 1½ hr.

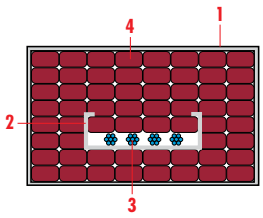
1. **Floor or wall assembly –** Minimum 5 in. thick reinforced normal weight concrete. Wall may also be constructed of any UL Classified concrete blocks. Maximum area of opening is 288 sq. in. with a maximum dimension of 24 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray –** Maximum 12 in. wide by maximum 3 ⅝ in. deep (maximum 3 in. deep loading depth) trough type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048 in.) thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048 in.) thick ventilated type rungs spaced 10 in. oc. Maximum one cable tray to be installed either concentrically or eccentrically within the firestop
system. The annular space between the cable tray and the periphery of opening shall be a minimum of 1½ in. to a maximum of 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables –** Maximum four individual cable bundles, each containing a maximum seven cables, to be installed within cable tray. Maximum diameter of individual cable bundles shall be 2 in. Cable bundles to be spaced a minimum 1½ in. to a maximum 3 in. oc. Any combination of the following types and sizes of cables may be used:
   a) Maximum 3 pair No. 24 AWG (or smaller) copper conductor cables with polyvinyl chloride (PVC) insulation and jacket.
   b) Maximum 2 fiber 62.5/125 uM fiber optic cable with PVC insulation and jacket.
   c) Maximum RG/U (or smaller) coaxial copper conductor cable with fluorinated ethylene insulation and jacket materials.

4. **Fill, Void or Cavity Materials –** NSi FireStop Pillows. Maximum 8 in. long x 4 in. wide x 2 in. deep thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.




## UL SYSTEM NO. C-AJ-4074

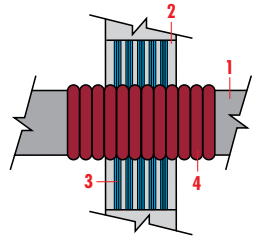
(For Horizontal or Vertical Separations)
F Rating – 3 hr., T Rating – 0 hr.

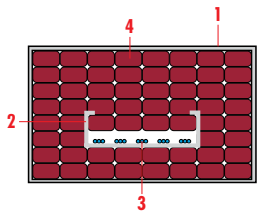
1. **Floor or wall assembly –** Minimum 4½ in. thick reinforced lightweight (100 pcf) concrete. Maximum size of opening is 288 sq. in. with maximum dimension of 24 in. Wall may also be constructed of any UL Classified concrete blocks. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray –** Maximum 12 in. wide by maximum 3 ⅝ in. deep (maximum 3 in. deep loading depth) trough type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048 in.) thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048 in.) thick ventilated type rungs spaced 10 in. oc. Maximum one cable tray to be installed either concentrically or eccentrically within the firestop system. The annular space between the cable tray and the periphery of opening shall be a minimum of 1½ in. to a maximum of 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables –** Aggregate cross-sectional area of cables in cable tray to be 25% of the cross-sectional area of the cable tray based on a maximum 3 in. cable loading within the cable tray. Any combination of the following types and sizes of cables may be used:
   a) Maximum 287 lengths of cables, each with 3 pair No. 24 AWG Type D telephone cables with PVC insulation and jacket.
   b) Maximum 24 lengths of double stranded fiber optic cables, ⅛ in. diameter with PVC insulation and jacket.
   c) Maximum 12 lengths of coaxial cable, ¼ in. diameter, 22 AWG solid copper conductor with polyethylene insulation and PVC jacket.
   d) Maximum 12 lengths of data cable, Alcatel 380100, E107890, 24 AWG CMR, with PVC jacket.

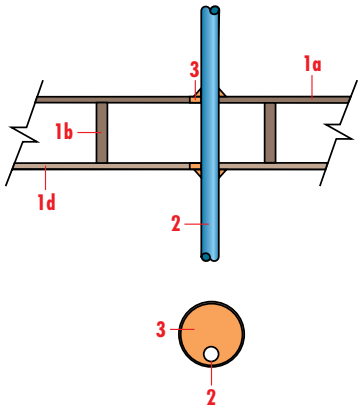
4. **Fill, Void or Cavity Materials –** NSi FireStop Pillows. Maximum 8 in. long x 4 in. wide x 2 in. deep thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.



## UL SYSTEM NO. F-C-3084

F Rating – 1 hr., T Ratings – 3/4 hr. and 1 hr. (See Item 2)




1. **Floor-Ceiling Assembly –** The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design No. L512, L513 or L514 in the UL Fire Resistance Directory and shall include the following construction features:
   a) Flooring System – Lumber or minimum 1/2 in. plywood subfloor with lumber or minimum 3/4 in. plywood finish floor or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5/8 in.
   b) Wood Joists – Nom. 2 x 10 in. lumber joists, spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped.
   c) Furring Channels (not shown) – Resilient galv. steel furring installed perpendicular to wood joist between wallboard and wood joist and spaced maximum 24 in. oc.
   d) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Wallboard attached to wood joists or furring channels as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 5/8 in.

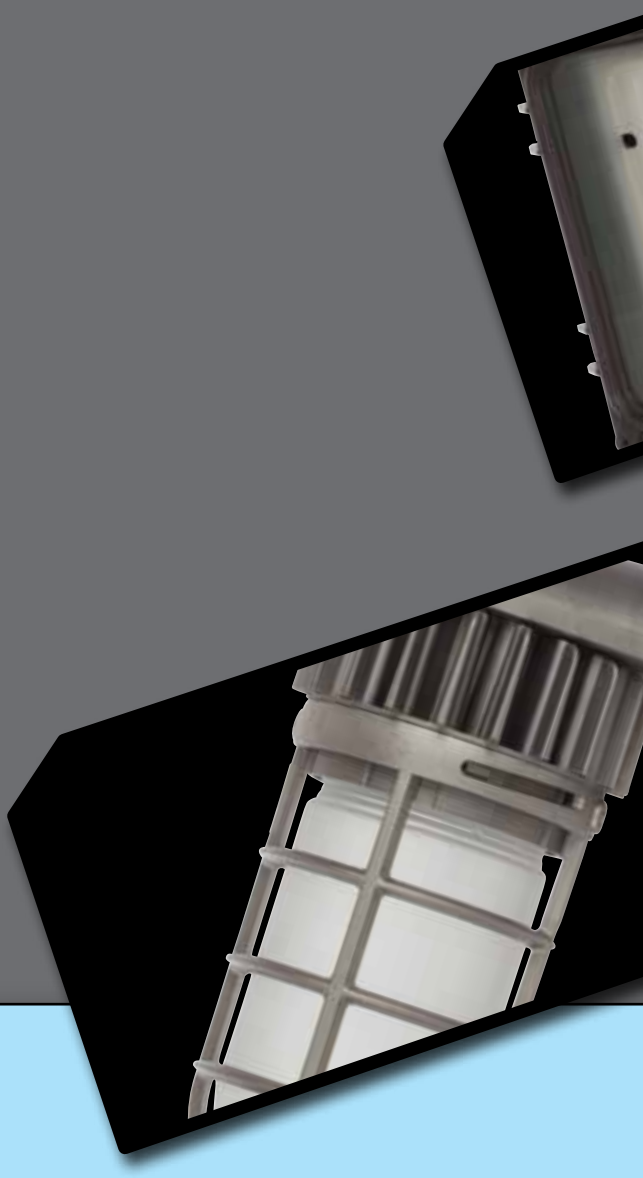
2. **Cables –** One cable to be installed either eccentrically or concentrically in opening with annular space between the cable and periphery of opening of min. 0 in. (point contact) to maximum 14 in. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types of cables may be used:
   a) Maximum 3/C (with ground) No. 12 AWG (or smaller) with polyvinyl chloride (PVC) insulation and jacket.
   b) Maximum 3/C (with ground) No. 14 AWG (or smaller) with PVC jacketed aluminium or steel clad, Type RW90.
   c) Type RG6U coaxial cable with fluorinated ethylene propylene insulation and jacket.
   d) Maximum 2/C (with ground) No. 14 AWG (or smaller), type NM90, with nylon jacket.
   e) Maximum 8/C No. 24 AWG (or smaller), type CMR MPR, with polyvinyl chloride (PVC) insulation and jacket.

The T Rating of the firestop system is dependent upon the type of cable used, as tabulate below:

| CABLE TYPE | T-RATING (HR.) |
|---|---|
| a, b, c and e | 1 |
| d | 3/4 |

3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. On top of assembly, a minimum 1 1/4 in. thickness of fill material applied within the annulus on top surface of floor. On bottom assembly, a minimum 1/2 in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum 1/2 in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.







# LIGHTING

LED LIGHTING

# Wallpack LED 13W PC

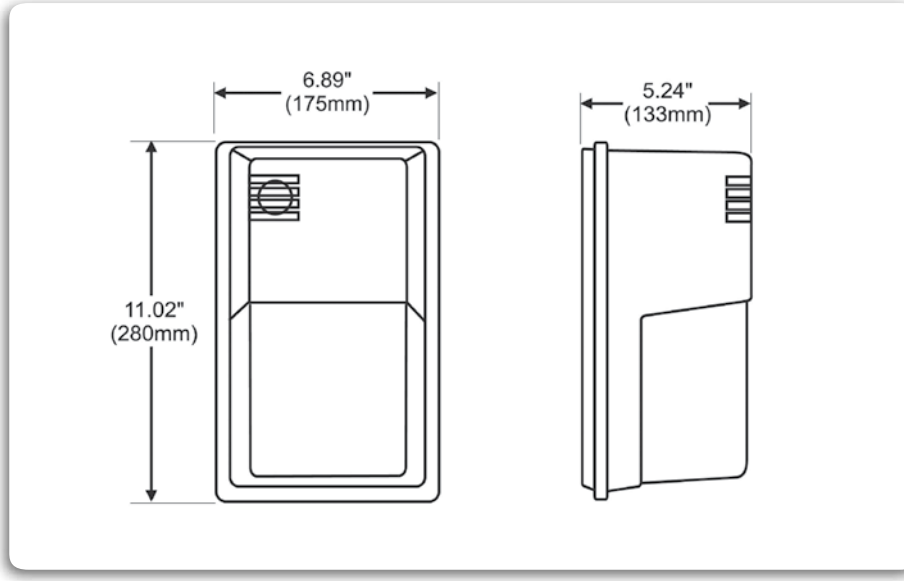
WP13LEDPC



## FEATURES

- Die cast aluminum body with polycarbonate housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Quick mount installation.
- Color temperature - 4700k.
- High impact resistant lens with built-in photocontrol.
- Equipped with photocontrol.

Ruggedly designed prismatic wall lighter that effectively diffuses and distributes the highly efficient LED output to maximizing spread and utilization while minimizing wattage consumption. Ideal for energy retrofit rebates when replacing 70W or lower Metal Halide or HPS units.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP13LEDPC** | 13 | 615lm** | 4700K | 1000 | 120-277VAC | 70+ | -30 °C | 50W - 70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.





nsi INDUSTRIES

LED LIGHTING

# Small Wallpack LED 12W

WP12LED

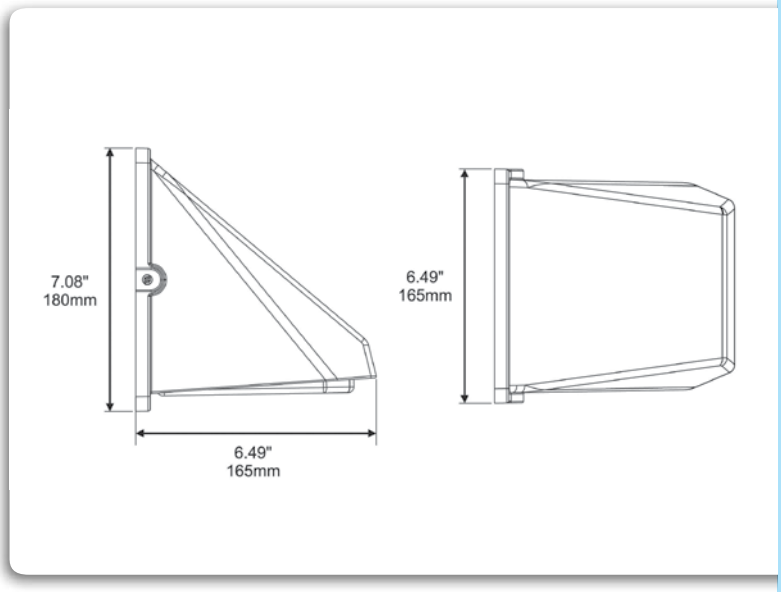




## FEATURES

- Die cast aluminum body with polycarbonate cover.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Quick mount installation.
- Color temperature - 5000k.
- High impact polycarbonate/diffuser.
- Ip65 rated enclosure.

This luminaire combines function and design with built-in heat sinks on top of the LED engine. This luminaire will provide effective lighting for a long time. Brilliant light illumination from the prismatic polycarbonate cover. Efficient and versatile, this fitting is suitable for both indoor and outdoor use. Ideal for apartments, motels and property maintenance.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP12LED** | 12 | 828lm** | 5000K | 300 | 277VAC | 70+ | -30 °C | 50W-70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Wallpack LED 36W

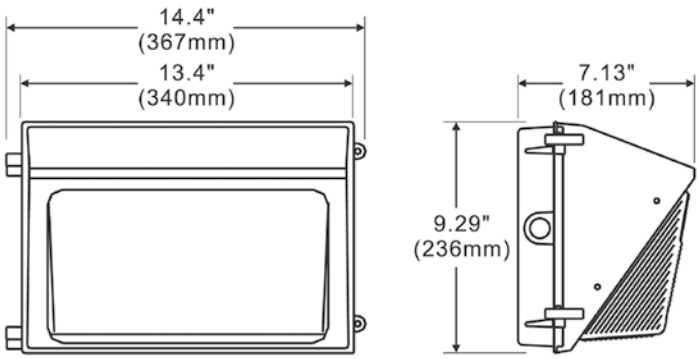
WP36LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant borosilicate glass lens.
- New generation led module.

Utilizing the latest generation of LED and chip technology, this uniquely designed wall-pack delivers a similar light output to a 100-150W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark Sky Compliant.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP36LED** | 36 | 2520lm** | 4700K | 950 | 120-277VAC | 70+ | -30 °C | 100W - 150W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.





nsi INDUSTRIES

LED LIGHTING

# Wallpack LED 38W

WP38LED

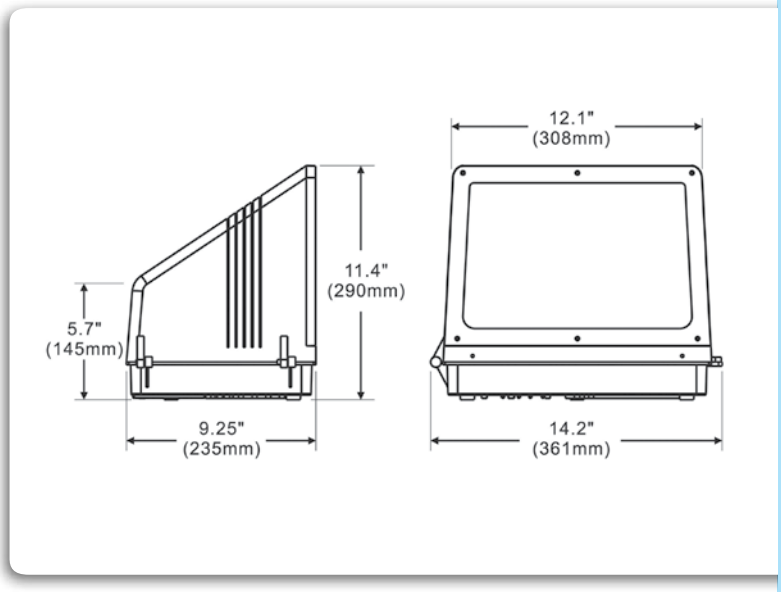




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant tempered glass lens.
- IP65 rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 150W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP38LED** | 38 | 2752lm** | 4700K | 700 | 120-277VAC | 70+ | -30 °C | 150W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Wallpack LED 68W

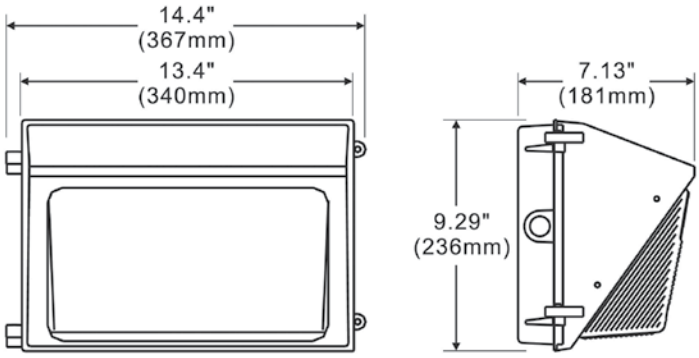
## WP68LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant borosilicate glass lens.
- IC protection.
- New generation LED module.

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 150-200W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP68LED** | 68 | 4887lm** | 4700K | 950 | 120-277VAC | 70+ | -30 °C | 150W - 200W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.





nsi INDUSTRIES

LED LIGHTING

# Wallpack LED 77W

WP77LED

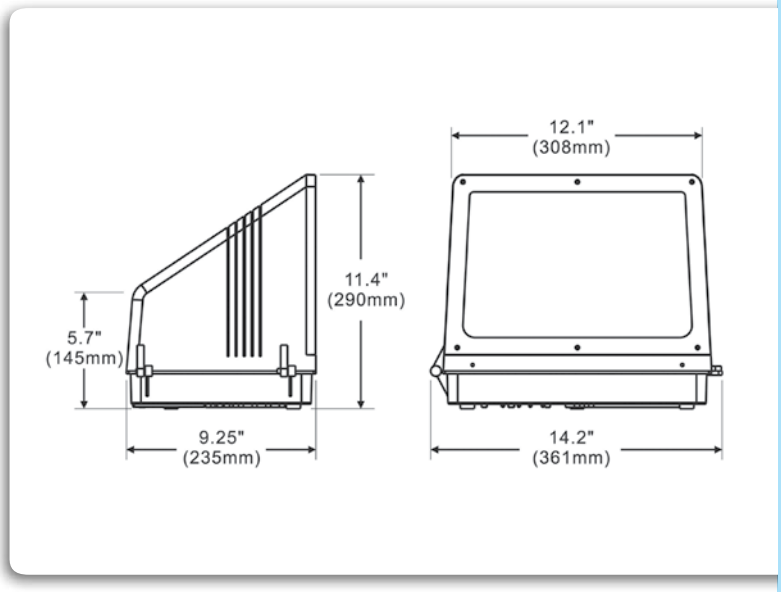




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700K.
- Heat & impact resistant tempered glass lens.
- IP65 rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 250W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP77LED** | 77 | 5036lm** | 4700K | 700 | 120-277VAC | 70+ | -30 °C | 250W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Medium LED 20W Flood Light

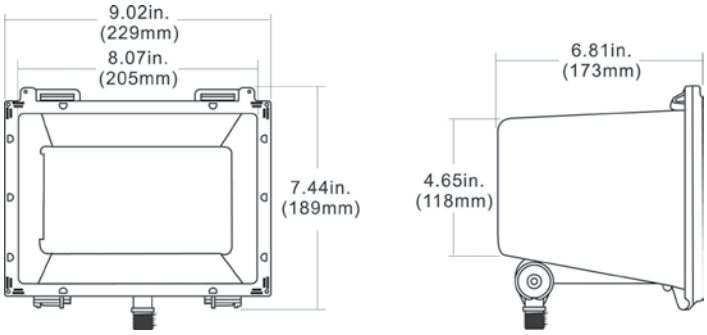
FL20LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC current controlled LED circuits.

Energy conserving powerful floodlight. Pro-environment, green, long life LED flood lighting. Adapting the most dependable LED light source, the fixture uses aluminum with a high heat conducting coefficient ensuring conduction of surface heat.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|
| **FL20LED** | 20 | 1588lm** | 4700K | 120-277VAC | 75+ | -30 °C | 70W-100W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Large LED 40W Flood Light

FL40LED

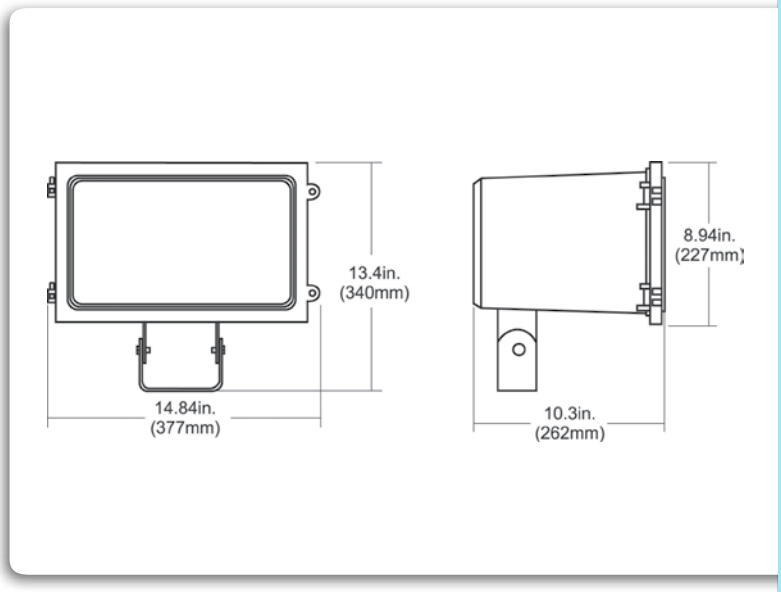




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC Current Controlled LED Circuits.

Energy conserving powerful floodlight. More light than a 150W halogen for about 1/7th the energy. Relamping once every 12~15 years instead of every 6 months. Perfect for hard-to-service locations. Rugged diecast design ensures LED's operate at optimum temperature for long life. Sealed against the environment for long reliable service life.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|
| **FL40LED** | 40 | 3176lm** | 4700K | 120-277VAC | 75+ | -30 °C | 150W-200W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Security Light LED 35W

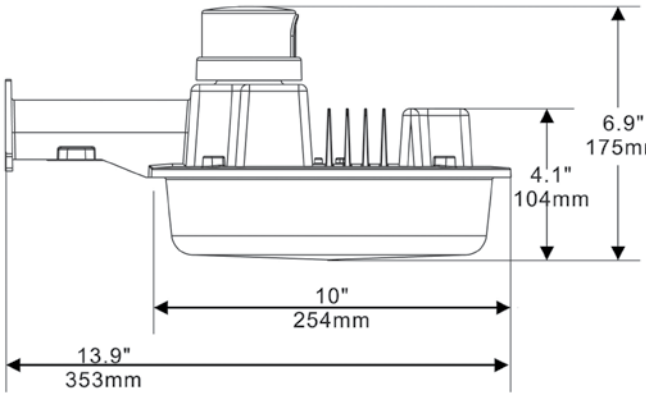
DTD35LED



## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Impact resistant lens.
- Photocontrol included.

The Dusk-to-Dawn Fixture of the future is here. Utilizing a single source LED, this dusk-to-dawn provides prismatic-designed light output for any environment. It comes with NEMA approved photocontrol which, when used with LED provides significant power savings. Maintaining all the strengths of the traditional dusk-to-dawn fixtures (such as installation brackets and arms) while employing the latest generation of LEDs, this LED dusk to dawn will last for years to come.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **DTD35LED** | 35 | 2650lm** | 5000K | 950 | 120VAC | 70+ | -30 °C | 100W-150W MH |

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CRI: Color Rendering Index.





nsi INDUSTRIES

LED LIGHTING

# Vaportite LED 13W Wall Mount

VTW13LED

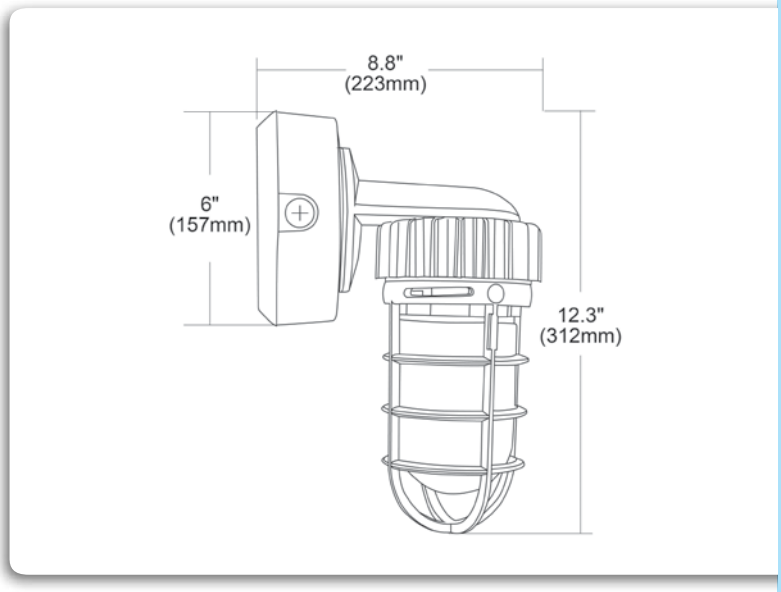




## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Heat & impact resistant tempered glass lens.
- IP65 rated & IC protection.
- DLC Listed (Design Lights Consortium).

Heavy duty vapor-proof LED light is built to last. With industrial-grade rubber gaskets as sealants and automobile grade aluminum, this LED light is a beacon. With a COB LED inside, it provides performance lighting while utilizing very little power. Die-cast guard on the outside of the glass protects the high power LED. Fixture can be used in warehouse, docks, restaurants, and many other applications.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **VTW13LED** | 13 | 670lm** | 5000K | 700 | 120-277VAC | 70+ | -30 °C | 50W-70W MH |

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CRI: Color Rendering Index.

LED LIGHTING

# Vaportite LED 13W Ceiling Mount

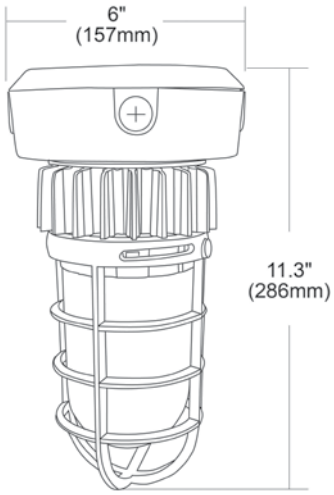
VTC13LED



## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 5000k.
- 1/2" Conduit.
- Plugs on all 4 sides.

Heavy duty vapor-proof LED light is built to last. With industrial-grade rubber gaskets as sealants and automobile grade aluminum, this LED light is a beacon. With a COB LED inside, it provides performance lighting while utilizing very little power. Die cast guard on the outside of the glass protects the high power LED. Fixture can be used in warehouse, docks, restaurants, and many other applications.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **VTC13LED** | 13 | 670lm** | 5000K | 700 | 120-277VAC | 70+ | -30 °C | 50W-70W MH |

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LED LIGHTING

# Wallpack LED 13W PC

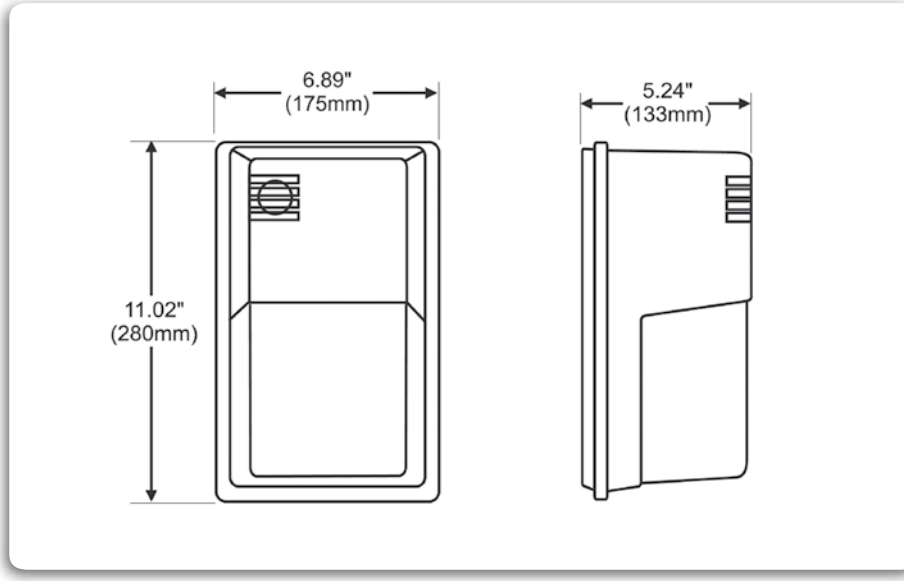
WP13LEDPC



## FEATURES

- Die cast aluminum body with polycarbonate housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Quick mount installation.
- Color temperature - 4700k.
- High impact resistant lens with built-in photocontrol.
- Equipped with photocontrol.

Ruggedly designed prismatic wall lighter that effectively diffuses and distributes the highly efficient LED output to maximizing spread and utilization while minimizing wattage consumption. Ideal for energy retrofit rebates when replacing 70W or lower Metal Halide or HPS units.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP13LEDPC** | 13 | 615lm** | 4700K | 1000 | 120-277VAC | 70+ | -30 °C | 50W - 70W MH |

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CRI: Color Rendering Index.





nsi INDUSTRIES

LIGHTING

# Mini Wallpacks

## WP SERIES





## FEATURES

- For small area fixtures: Doorways, loading docks, commercial, institutional, industrial areas.
- Mini wallpacks are available with a one-piece polycarbonate housing and lens (1) or with a die-cast housing and borosilicate glass lens (2).
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Polycarbonate version available with built-in photocontrol.
- Die cast version can be field installed with photocontrol.
- UL Listed for wet location use.
- Lamp included.

| 1 | 2 |
|---|---|
|  |  |

## RATINGS

c UL us

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | VOLTAGE | HEIGHT | WIDTH | DEPTH | BALLAST | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|---|
| **WP42FL*** | 1 | 42 Watt Fluorescent | 120/277VAC | 11 | 6.9 | 5.2 | Electronic | PLC | – |
| **WP26FLPC*** | 1 | 26 Watt Fluorescent with Photocontrol | 120/277VAC | 11 | 6.9 | 5.2 | Electronic | PLC | – |
| **WP70S** | 1 | 70 Watt Sodium | 120VAC | 11 | 6.9 | 5.2 | R-NPF | ED17 | Medium |
| **WP70SPC** | 1 | 70 Watt Sodium With Photocontrol | 120VAC | 11 | 6.9 | 5.2 | R-NPF | ED17 | Medium |
| **WPGC100MHQ** | 2 | Die Cast 100 Watt Metal Halide | 120/208/240/277VAC | 12 | 7.3 | 5.3 | QUAD HX-NPF | ED17 | Medium |

LED LIGHTING

# Small Wallpack LED 12W

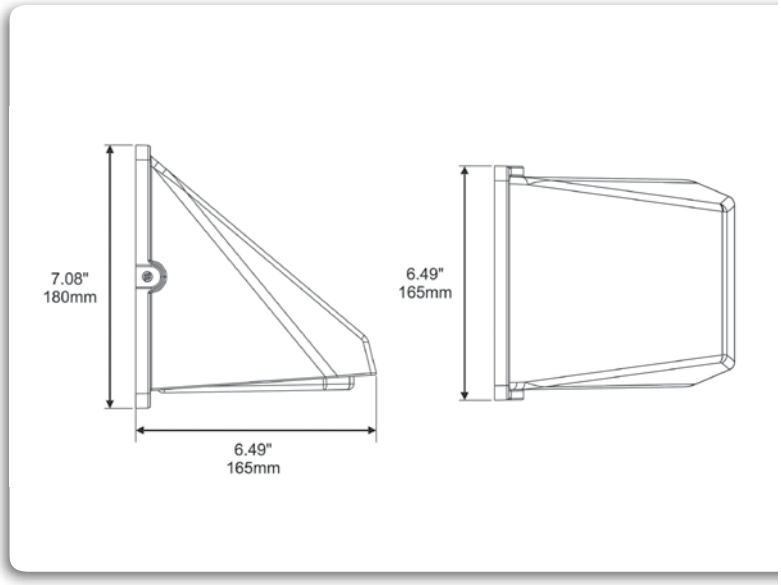
WP12LED



## FEATURES

- Die cast aluminum body with polycarbonate cover.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Quick mount installation.
- Color temperature - 5000k.
- High impact polycarbonate/diffuser.
- Ip65 rated enclosure.

This luminaire combines function and design with built-in heat sinks on top of the LED engine. This luminaire will provide effective lighting for a long time. Brilliant light illumination from the prismatic polycarbonate cover. Efficient and versatile, this fitting is suitable for both indoor and outdoor use. Ideal for apartments, motels and property maintenance.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP12LED** | 12 | 828lm** | 5000K | 300 | 277VAC | 70+ | -30 °C | 50W-70W MH |

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CRI: Color Rendering Index.

# Compact Wallpacks

## WPC SERIES







## COMPACT WALLPACK

- For small area fixtures: Doorways, loading docks, commercial, institutional, industrial areas.
- Compact wallpacks have a die cast housing with powder-coat finish and prismatic polycarbonate lens with gasket.
- Porcelain medium base socket assembly.
- One piece semi-specular asymmetric anodized aluminum reflector.
- UL Listed for wet location use.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPC70MHQ** | 70 Watt Metal Halide Polycarbonate Lens | 120/208/240/277VAC | QUAD HX-NPF | 9.5 | 8.5 | 7 | ED17 | Medium |
| **WPC100S** | 100 Watt Sodium Polycarbonate Lens | 120VAC | R-NPF | 9.5 | 8.5 | 7 | ED17 | Medium |

## COMPACT WALLPACK - DIE CAST



- For small area fixtures: Doorways, loading docks, commercial, institutional, industrial areas.
- Compact wallpacks have a die cast housing with powdercoat finish and prismatic borosilicate glass lens with gasket.
- Porcelain medium base socket assembly.
- One piece semi-specular asymmetric anodized aluminum reflector.
- UL Listed for wet location use.
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPC100MHQ** | Compact Wallpack<br>100 Watt Metal Halide Glass Lens | 120/208/240/277VAC | QUAD HX-HPF | 9.5 | 8.5 | 7.5 | ED17 | Medium |

LED LIGHTING

# Wallpack LED 36W

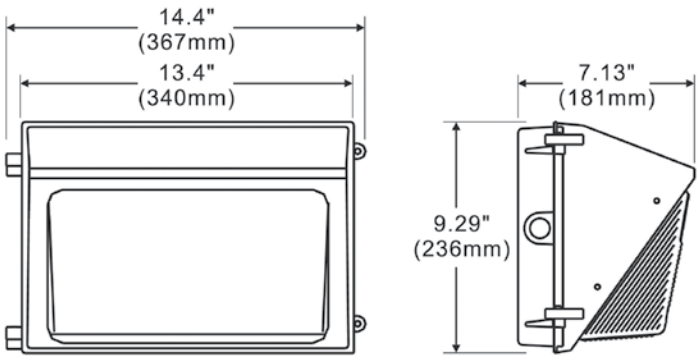
WP36LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant borosilicate glass lens.
- New generation led module.

Utilizing the latest generation of LED and chip technology, this uniquely designed wall-pack delivers a similar light output to a 100-150W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark Sky Compliant.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP36LED** | 36 | 2520lm** | 4700K | 950 | 120-277VAC | 70+ | -30 °C | 100W - 150W MH |

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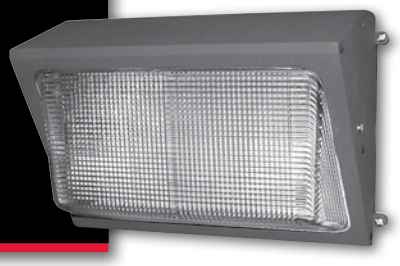


nsi INDUSTRIES

LIGHTING

# Medium Wallpacks

## WPM SERIES





## FEATURES

- For warehouse, perimeter lighting, security, and retail.
- Die cast housing and lens frame with powdercoat finish and a porcelain medium base socket assembly.
- Front frame is hinged with one piece stippled aluminum reflector.
- Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Listed for wet location use.
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Lamp included.

## RATINGS

c UL us *pulseSTART

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPM100MHQ** | 100 Watt Metal Halide | 120/208/240/277VAC | QUAD HX-HPF | 9 | 14.25 | 7.1 | ED17 | Medium |
| **WPM150SQ** | 150 Watt Sodium | 120/208/240/277VAC | QUAD HX-HPF | 9 | 14.25 | 7.1 | ED17 | Medium |
| **WPM150S** | 150 Watt Sodium | 120VAC | R-NPF | 9 | 14.25 | 7.1 | ED17 | Medium |
| **WPM150MHQP*** | 150 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 9 | 14.25 | 7.1 | ED17 | Medium |

LED LIGHTING

# Wallpack LED 68W

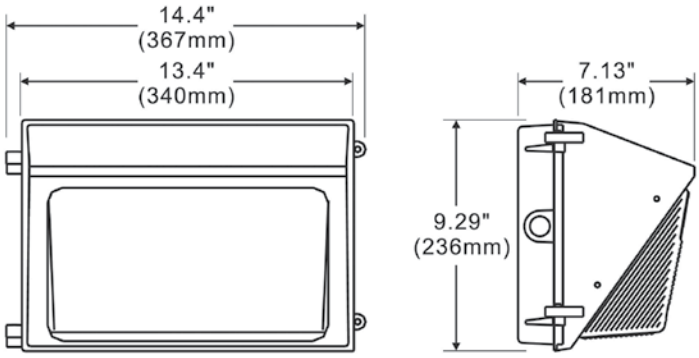
## WP68LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant borosilicate glass lens.
- IC protection.
- New generation LED module.

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 150-200W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP68LED** | 68 | 4887lm** | 4700K | 950 | 120-277VAC | 70+ | -30 °C | 150W - 200W MH |

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CRI: Color Rendering Index.

LED LIGHTING

# Wallpack LED 77W

WP77LED

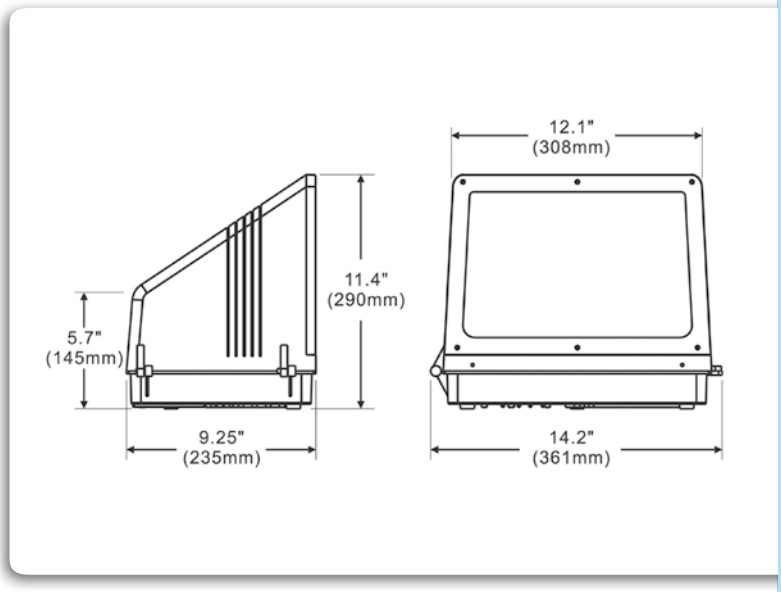




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700K.
- Heat & impact resistant tempered glass lens.
- IP65 rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 250W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP77LED** | 77 | 5036lm** | 4700K | 700 | 120-277VAC | 70+ | -30 °C | 250W MH |

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CRI: Color Rendering Index.

LIGHTING

# Large & Large Deep Wallpacks

## WPL & WPLD SERIES



## WALLPACK – LARGE

- For warehouse, perimeter, security and retail lighting.
- Large wallpacks have a die cast housing with powdercoat finish and a porcelain mogul base socket assembly.
- One piece stippled aluminum reflector.
- Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Listed for wet location use.
- Excellent for security and perimeter lighting, tunnels and commercial and industrial applications.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPL250SQ** | 250 Watt Sodium | 120/208/240/277VAC | QUAD CWA | 9 | 18.2 | 9.4 | ED18 | Mogul |
| **WPL250MHQP*** | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 9 | 18.2 | 9.4 | ED28 | Mogul |

## WALLPACK - LARGE DEEP



- For warehouse, perimeter, security and retail lighting.
- Large Deep wallpacks have a die cast housing with powdercoat finish and a porcelain 4KV mogul socket assembly.
- Specular aluminum reflector. Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Listed for wet location use.
- Excellent for security and perimeter lighting, tunnels and commercial and industrial applications.
- Large Deep wallpacks have an extra deep housing for better cooling and longer lasting Lamp included.

All dimensional data is listed in inches.

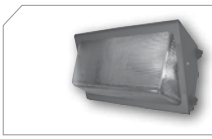
| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPLD400SQ** | 400 Watt Sodium | 120/208/240/277VAC | QUAD CWA | 9 | 18.2 | 12.8 | ED18 | Mogul |
| **WPLD250SQ** | 250 Watt Sodium | 120/208/240/277VAC | QUAD CWA | 9 | 18.2 | 12.8 | ED18 | Mogul |
| **WPLD320MHQP*** | 320 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 9 | 18.2 | 12.8 | ED37 | Mogul |
| **WPLD250MHQP*** | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 9 | 18.2 | 12.8 | ED28 | Mogul |

LIGHTING

# Fluorescent & Compact Floodlight

## FLF & FLC SERIES





## FLUORESCENT FLOOD

- For landscape, facade, security, pathway and sign lighting.
- NSi's non-metallic Fluorescent Floodlight features twin 13 Watt fluorescent lamps, fully silicone gasketed lens and frame.
- Mounts with fully adjustable 1/2" NPT threaded knuckle.
- Listed for wet locations.
- Lamp included.

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP |
|---|---|---|---|---|---|---|---|
| **FLF26NM*** | Fluorescent Flood 26 Watt Non-metallic | 120VAC | ELECTRONIC | 4.75 | 9.25 | 4.6 | PLC |

## COMPACT FLOOD



- Compact designs are ideal for security, sign, accent and perimeter, landscape, general floodlighting and facade lighting.
- Our Compact Floodlight has a die cast housing and lens frame with powdercoat finish and a one piece high impact tempered lens, 1/2" NPT knuckle assembly.
- The reflector is stippled for glare reduction and controlled beam distribution.
- Hinged lens assembly has silicone gasket to seal out dust and moisture.
- Listed for wet location use.
- Lamp included.

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FLC70MHQ** | Compact Flood 70 Watt Metal Halide | 120/208/240/277VAC | QUAD HX-HPF | 7.5 | 9 | 7 | ED17 | Medium |
| **FLC70SQ** | Compact Flood 70 Watt Sodium | 120/208/240/277VAC | QUAD HX-HPF | 7.5 | 9 | 7 | ED17 | Medium |
| **FLC150SQ** | Compact Flood 150 Watt Sodium | 120/208/240/277VAC | QUAD HX-HPF | 7.5 | 9 | 7 | ED17 | Medium |
| **FLC42FL*** | Compact Flood 42 Watt Fluorescent | 120VAC | ELECTRONIC | 7.5 | 9 | 7 | PLC | Medium |

LED LIGHTING

# Medium LED 20W Flood Light

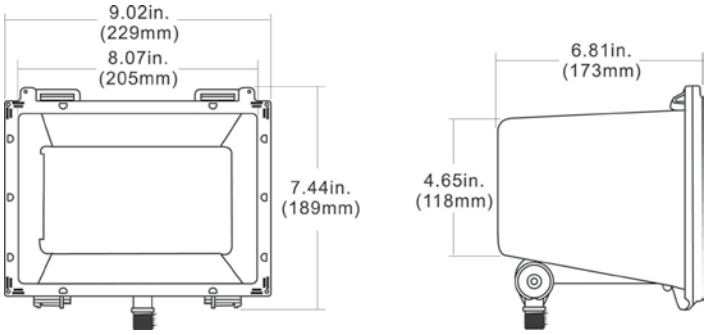
FL20LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC current controlled LED circuits.

Energy conserving powerful floodlight. Pro-environment, green, long life LED flood lighting. Adapting the most dependable LED light source, the fixture uses aluminum with a high heat conducting coefficient ensuring conduction of surface heat.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|
| **FL20LED** | 20 | 1588lm** | 4700K | 120-277VAC | 75+ | -30 °C | 70W-100W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Large LED 40W Flood Light

FL40LED

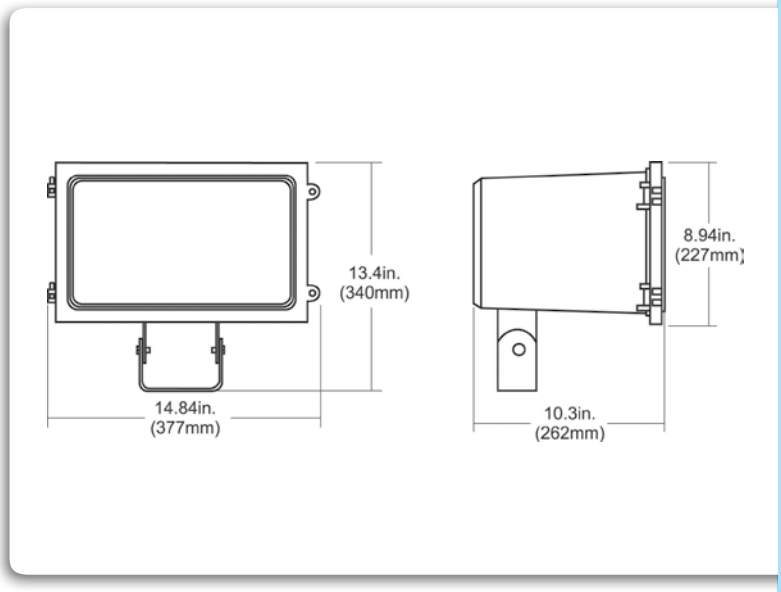




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC Current Controlled LED Circuits.

Energy conserving powerful floodlight. More light than a 150W halogen for about 1/7th the energy. Relamping once every 12~15 years instead of every 6 months. Perfect for hard-to-service locations. Rugged diecast design ensures LED's operate at optimum temperature for long life. Sealed against the environment for long reliable service life.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|
| **FL40LED** | 40 | 3176lm** | 4700K | 120-277VAC | 75+ | -30 °C | 150W-200W MH |

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CRI: Color Rendering Index.

LIGHTING

# Low Profile Floodlight

## FLLP SERIES



## FEATURES

- For large area perimeter and security lighting: Industrial, storage yards, parking areas, auto dealerships, landscape and recreational areas.
- Our Low-Profile floodlight has a die cast housing with powdercoat finish and comes with three piece anodized aluminum reflector, supplying wide beam distribution.
- High impact tempered lens.
- Listed for wet location use.
- Can be mounted for landscape/facade lighting; Pole tenon mount available.
- Lamp included.

**SHOWN MOUNTED ON FLPTM**



## RATINGS

*pulseSTART

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FLLP150MHQP*** | 150 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 10.25 | 16.25 | 10.75 | ED28 | Mogul |
| **FLLP250MHQP*** | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 10.25 | 16.25 | 10.75 | ED28 | Mogul |
| **FLLP320MHQP*** | 320 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 10.25 | 16.25 | 10.75 | ED37 | Mogul |
| **FLPTM** | Pole Tenon Mount for FLLP Series | | | | | | | |

LIGHTING

# Medium And Large Floodlight

## FLM & FL SERIES





## MEDIUM FLOOD

- For compact designs: security, accent and perimeter lighting.
- Ideal for landscape, general floodlighting, signs and facade lighting.
- Die cast housing and hinged top frame with textured bronze finish.
- The aluminum hydroformed reflector is rotatable and is adjustable for horizontal or vertical lamp positions.
- Fixture has adjustable ½" NPT threaded knuckle with angle indicators to assist in correct aiming.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FLM70MHQ** | 70 Watt Metal Halide | 120/208/240/277VAC | QUAD CWA | 10.25 | 9 | 7.25 | ED17 | Medium |

## LARGE FLOOD

- For large area perimeter and security lighting: Industrial, storage yards, parking areas, auto dealerships, landscape and recreational areas.
- 16" 400, 320 and 250 Watt Floodlights.
- Heavy duty die cast aluminum housing and durable bronze powdercoat finish.
- Extra heavy duty slipfitter included (bracket mount is available).
- Fixture has silicone gasketing, stainless steel hardware and a tempered glass lens.
- Front lens assembly is fully hinged for easy relamping and maintenance.
- Lamp included.



**FLBR**



All dimensional data is listed in inches.

| CAT NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FL400SQ** | 400 Watt Sodium | 120/208/240/277VAC | QUAD CWA | 17 | 16.5 | 7.2 | ED18 | Mogul |
| **FL320MHQP*** | 320 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 17 | 16.5 | 7.2 | ED28 | Mogul |
| **FL250MHQP*** | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 17 | 16.5 | 7.2 | ED28 | Mogul |
| **FLBR** | Bracket Mount for FL Series 250, 320 and 400 Watt Floods | | | | | | | |

LIGHTING

# 1000 Watt And Incandescent Floodlight

## FLH & PHN SERIES



## 1000 WATT FLOOD

- For large area perimeter and security lighting: Industrial, storage yards, parking areas, auto dealerships, landscape and recreational areas.
- 23" 1000 Watt Floodlights have heavy duty die cast aluminum housing and durable bronze powdercoat finish.
- Extra heavy duty slipfitter included (bracket mount is available).
- Fixture has silicone gasketing, stainless steel hardware and a tempered glass lens.
- Front lens assembly is fully hinged for easy relamping and maintenance.
- Lamp included.

**FLHBR**



All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FLH1000MHQ** | 1000 Watt Flood Metal Halide | 120/208/240/277VAC | QUAD CWA | 29 | 23.75 | 10.25 | ED37 | Mogul |
| **FLH1000SQ** | 1000 Watt Flood Sodium | 120/208/240/277VAC | QUAD CWA | 29 | 23.75 | 10.25 | ED25 | Mogul |
| **FLHBR** | Bracket Mount For 1000 Watt Flood - FLH Series | | | | | | | |

## INCANDESCENT FLOOD

- Incandescent: General purpose floodlighting
- Quartz: Accent, security, landscape, facades, signs and general purpose floodlighting.
- Oversized backplate designed specially to cover gaps where cutouts for boxes are too big.
- Extra deep backplate also fits over a flush-mounted pancake box to provide a good fit and appearance.
- Both par holders swivel side to side and up and down and can be securely locked.



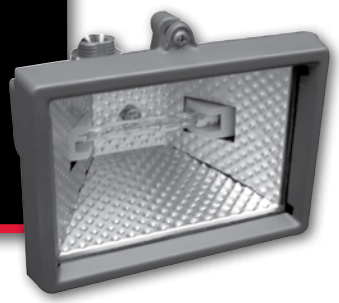
All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | DIAMETER (BACKPLATE) | LAMP TYPE |
|---|---|---|---|
| **PHNM300** | 300 Watt Nonmetallic Twin Par Holder | 5.25 | PAR 38 |

LIGHTING

# Quartz Floodlight with Lamp

QF SERIES





## FEATURES

- For accent, security, landscape, facades, signs and general purpose floodlighting.
- Solid one piece die cast aluminum construction, high impact resistant tempered glass lens, aluminum reflector and corrosion resistant hardware.
- Silicone rubber gasketing is included to prevent leakage from outside.
- UL and CUL listed for wet location use.
- 150 Watt is perfect for lighting small outdoor areas; the others are excellent for general purpose floodlighting.
- Mounts with 1/2" NPT knuckle.
- Lamps included.

| 1 | 2 |
|---|---|
|  |  |

## RATINGS

c UL us

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | VOLTAGE | HEIGHT | WIDTH | EXTENSION |
|---|---|---|---|---|---|---|
| **QF150B** | 1 | 150 Watt Quartz Flood Bronze With Lamp | 120VAC | 3.5 | 3.3 | 3.9 |
| **QF300-500B** | 2 | Quartz Flood Bronze With 300/500 Watt Lamps | 120VAC | 5.75 | 5.75 | 4.6 |

LIGHTING

# High Pressure Sodium Ballast Kits with Lamp

BKS SERIES



## FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.
- Consult factory for availability of 5-tap ballast.

## RATINGS

| CAT. NO. | DESCRIPTION | VOLTAGE | LAMP |
|---|---|---|---|
| **BKS70RL-MED** | 70 Watt HPS Reactor | 120VAC | Medium |
| **BKS50QL-MED** | 50 Watt HPS Quad | 120/208 /240/277V | Medium |
| **BKS70QL-MED** | 70 Watt HPS Quad | 120/208/240/277V | Medium |
| **BKS100QL-MED** | 100 Watt HPS Quad | 120/208/240/277V | Medium |
| **BKS150QL-MED** | 150 Watt HPS Quad | 120/208/240/277V | Medium |
| **BKS250QL-M** | 250 Watt HPS Quad | 120/208/240/277V | Mogul |
| **BKS400QL-M** | 400 Watt HPS Quad | 120/208/240/277V | Mogul |
| **BKS1000QL-M** | 1000 Watt HPS Quad | 120/208/240/277V | Mogul |
| **BKS1000480L-M** | 1000 Watt HPS | 480VAC | Mogul |

LIGHTING

# Metal Halide Ballast Kits with Lamp

## BKM SERIES





## FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.
- Consult factory for availability of 5-tap ballast.

## RATINGS

*pulseSTART

| CAT. NO. | DESCRIPTION | VOLTAGE | LAMP |
|---|---|---|---|
| **BKM50QL-MED** | 50 Watt Metal Halide Quad | 120/208/240/277V | Medium |
| **BKM70QL-MED** | 70 Watt Metal Halide Quad | 120/208/240/277V | Medium |
| **BKM100QL-MED** | 100 Watt Metal Halide Quad | 120/208/240/277V | Medium |
| **BKM400QL-M** | 400 Watt Metal Halide Quad | 120/208/240/277V | Mogul |
| **BKM400480L-M** | 400 Watt Metal Halide | 480VAC | Mogul |
| **BKM1000QL-M** | 1000 Watt Metal Halide | 120/208/240/277V | Mogul |
| **BKM320QPL-M*** | 320 Watt Metal Halide Pulse Quad | 120/208/240/277V | Mogul |

LIGHTING

# High Pressure Sodium Ballast Kits Only

BKS SERIES



## FEATURES

- Kit includes: Cap, ignitor and brackets.
- Consult factory for availability of 5-tap ballast.

## RATINGS

| CAT. NO. | DESCRIPTION | VOLTAGE |
|---|---|---|
| **BKS70R** | 70 Watt HPS Reactor – Cap, Ignitor & Brackets | 120V |
| **BKS100R** | 100 Watt HPS Reactor – Cap, Ignitor & Brackets | 120V |
| **BKS50Q** | 50 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS70Q** | 70 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS100Q** | 100 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS150Q** | 150 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS250Q** | 250 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS400Q** | 400 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS1000Q** | 1000 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |

LIGHTING

# Metal Halide Ballast Kits Only

BKM SERIES



## FEATURES

- Kit includes: Cap, ignitor and brackets.
- Consult factory for availability of 5-tap ballast.

## RATINGS

*pulseSTART

| CAT. NO. | DESCRIPTION | VOLTAGE |
|---|---|---|
| **BKM50Q** | 50 Watt Metal Halide Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM70Q** | 70 Watt Metal Halide Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM100120** | 100 Watt Metal Halide – Cap, Ignitor & Brackets | 120V |
| **BKM100Q** | 100 Watt Metal Halide Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM250Q** | 250 Watt Metal Halide Quad – Cap & Brackets | 120/208/240/277V |
| **BKM400Q** | 400 Watt Metal Halide Quad – Cap & Brackets | 120/208/240/277V |
| **BKM400480** | 400 Watt Metal Halide – Cap & Brackets | 480V |
| **BKM1000Q** | 1000 Watt Metal Halide Quad – Cap & Brackets | 120/208/240/277V |
| **BKM1000480** | 1000 Watt Metal Halide – Cap & Brackets | 480V |
| **BKM150QP*** | 150 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM250QP*** | 250 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM320QP*** | 320 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |

LIGHTING

# Twin Head & Fixed Optics Emergency Light

## EMTW & EMFW SERIES



## TWIN HEAD EMERGENCY LIGHT

- For commercial, industrial, institutional and retail lighting.
- Unit gives a low profile appearance with automatic LVD (low voltage disconnect) and universal transformer for 120 or 277VAC.
- Universal mounting plate with quick connect for labor saving installation.
- Injection-molded V-0 flame retardant high-impact thermoplastic housing and a 6V sealed lead acid maintenance free battery with 90 minute operation.
- Environmentally-coated solid state charger.
- Listed for damp location use.

| CAT. NO. | UPC CODE | BATTERY | HOUSING | LAMP |
|---|---|---|---|---|
| **EMTW-LED** | 05281 | 6 Volt | White | 2 x 5.4 Watt |

## FIXED OPTICS EMERGENCY LIGHT



- For commercial, industrial, institutional and retail lighting.
- Fully automatic operation with automatic LVD (low voltage disconnect) and universal transformer for 120 or 277VAC.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing and a 6V premium grade, sealed lead acid, maintenance free battery with 90 minute operation.
- Compact, low profile design in pleasing neutral finish with environmentally-coated solid state charger.
- Listed for damp location use.

| CAT. NO. | BATTERY | HOUSING | LAMP |
|---|---|---|---|
| **EMFW** | 6 Volt | White | 2 x 5.4 Watt |

LIGHTING

# LED Exit & Combo LED Incandescent Exit Light

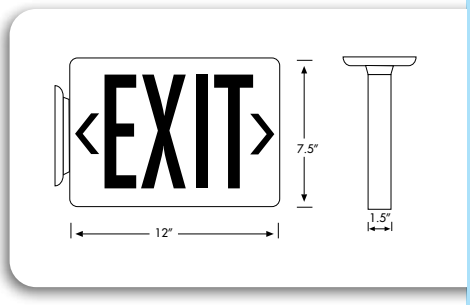
EXL & EEL SERIES






## LED EXIT LIGHT

- For commercial, industrial, institutional and retail lighting.
- Fully automatic operation at 120 or 277VAC with 25+ years LED lamp life.
- LED exit lights have a universal mounting canopy for side or top installation.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing with a low profile design and excellent energy savings.

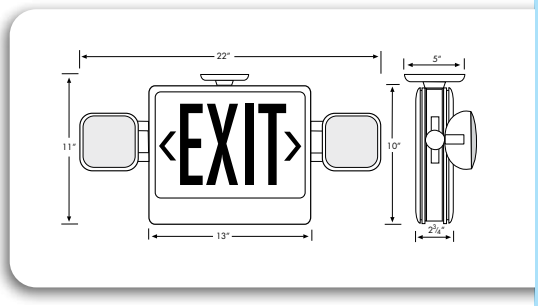



| CAT. NO. | NO. OF FACES | TYPE | LETTERING | HOUSING |
|---|---|---|---|---|
| **EXLRW** | 2 | AC | Red | White |
| **EXLBURW-SL** | 2 | 90 Min. Slimline Battery Backup | Red | White |
| **EXLBUGW** | 2 | 90 Min. Battery Backup | Green | White |

## COMBO LED/INCANDESCENT EXIT LIGHT

- For commercial, industrial, institutional and retail lighting. Excellent energy savings and the LED lamp life of 25+ years.
- Automatic LVD (low voltage disconnect) and universal transformer for 120 or 277VAC.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing and a 6V pure lead maintenance free battery with 90 minute operation.
- Two fully adjustable glare free lighting heads in a compact, modern design.
- Self-diagnostic and remote capable options are available for this fixture, call for special quote.
- Universal mounting canopy for ceiling installation.




| CAT. NO. | NO. OF FACES | LETTERING | HOUSING | REMOTE |
|---|---|---|---|---|
| **EEL2RW-LED** | 2 | Red | White | No |
| **EEL2RWRM-LED** | 2 | Red | White | Yes |
| **EEL2GW** | 2 | Green | White | No |

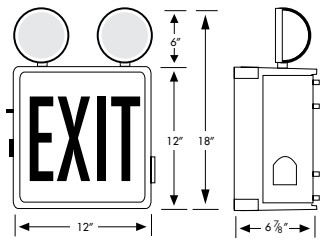
# Wet Location Emergency Light

## EMWL & EMTW SERIES




## WET LOCATION LED EXIT LIGHT, 2-HEAD UNIT

- For commercial, industrial, institutional and retail lighting.
- ABS, corrosion resistant UV stabilized enclosures meet NFPA, NEC, OSHA, NEC and local and state codes, making these energy-saving wet location LED exit lights great for corrosive or damaging environments.
- Universal 120/277VAC operation with removable directional indicators and an 25+ year light source life expectancy.

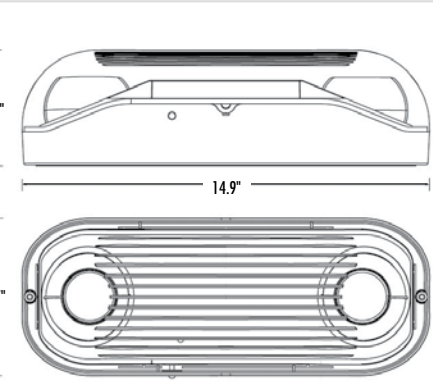



| CAT. NO. | TYPE | LETTERING | HOUSING | BATTERY |
|---|---|---|---|---|
| **EMWL26RW** | 2-Head Emergency Light | Red | White | 6V |

## WET LOCATION LED EXIT LIGHT

- For commercial, industrial, institutional and retail lighting.
- Dual 120/277VAC operation.
- Sealed lead acid, rechargeable, maintenance-free battery and high-impact housing.
- Push-to-test switch and automatic, low-voltage disconnect (LVD).
- Completely self-contained and UL listed for wet locations.






All dimensional data is listed in inches.

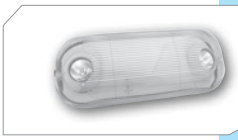
| CAT. NO. | DESCRIPTION | BATTERY TYPE | BATTERY | HEIGHT | WIDTH | DEPTH | LAMP |
|---|---|---|---|---|---|---|---|
| **EMTWMR16WL** | Wet Location Twin Head Mr16 Emergency Light-Gray | Sealed Lead Acid 90 Minute Operation | 6V | 5.7 | 14.9 | 4.2 | 2 x 7 Watt MR-16 Halogen |

LIGHTING

# Heavy Duty Emergency Light & Emergency Fluorescent Ballast

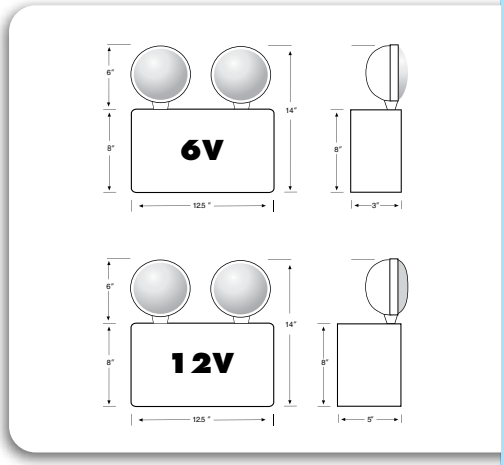
## EMHD & FBP SERIES





## HEAVY DUTY EMERGENCY LIGHT

- For commercial, industrial, institutional and retail lighting.
- Automatic LVD (low voltage disconnect) and universal transformer for 120 or 277 VAC.
- This heavy duty light comes standard with two fully adjustable glare-free lighting heads and side and top conduit KOs.
- 6V premium grade, sealed lead acid, maintenance free batteries included with 10 year life expectancy.
- Remote capability and easy installation.
- 6Vt units offer 7.2 watt lamps standard and 12 volt units offer 9 watt lamps standard.
- UL listed for damp location use.




| CAT. NO. | WATTAGE CAPACITY | BATTERY | VOLTAGE | LAMP |
|---|---|---|---|---|
| **EMHD506** | 50 Watt | 6 Volts | 120/277VAC | 13 |

## EMERGENCY FLUORESCENT BALLAST

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

| CAT. NO. | FIG. | LUMENS | DIMENSIONS | | | LINEAR LAMPS | | | | COMPACT FLUORESCENT LAMPS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | H | L | W | 2'4' Rapid, Instant, or Energy Savings, T8-T12, HO, VHO | 2'-8' Rapid, Instant, or Energy Savings, Circline T8-T12, HO, VHO | 8W-28W - T5* | 54W - T5HO | 17W-40W 4-pin compact | 40W-55W 4-pin compact |
| **FBP100** | 1 | 500 | 1.5" | 9.4" | 2.4" | 1 | | 1 | | 1 | |
| **FBP60** | 2 | 700 | 1.5" | 9.4" | 2.4" | 1 or 2 | 1 | 1 | | 1 or 2 | 1 |
| **FBP50** | 3 | 1400 | 1.5" | 13.3" | 2.4" | 1 or 2 | 1 | 1 or 2 | 1 or 2 | 1 or 2 | 1 |

*The ballast may not fit in a typical T5 fixture and needs to be remotely mounted. All ballast are standard with dual 120/277V input. Damp location listed (0 °C to 50 °C).

# Entry Cylinder & 5x8 Vandal Resistant

## EL & VRM SERIES



## ENTRY CYLINDERS

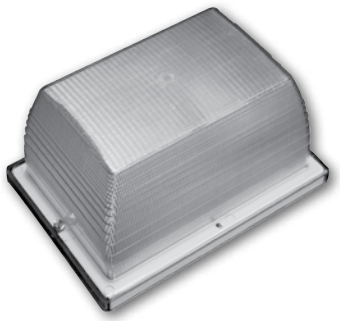
- For loading docks, security lighting and entrance doorway lighting.
- Features impact and corrosion resistant polycarbonate housing and polycarbonate lens.
- The lens is engineered to diffuse light to properly light entryways without glare.
- Lens locks in place with an allen set screw to resist tampering.
- 26W 4100K fluorescent lamp.
- Listed for wet locations.
- Lamp included.

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP |
|---|---|---|---|---|---|---|---|
| **EL26FL*** | Entry Cylinder 26 Watt Fluorescent | 120 VAC | Electronic | 9 | 5 | 7 | PLC |

## VANDAL RESISTANT 5X8 ENTRY LIGHT



- For residential multi-family, commercial, institutional entry and small area fixtures.
- Available in fluorescent with clear polycarbonate lens. Includes steel pan, gasket and hardware, socket and bracket.
- Can be ceiling/canopy or wall mounted.
- Listed for wet locations.
- Lamp Included

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP |
|---|---|---|---|---|---|---|---|
| **VRM13FL*** | Mini VR 5x8 13 Watt Fluorescent (Clear Lens) | 120VAC | Electronic | 5.5 | 7.75 | 4.25 | PLC |

LIGHTING

# Small & Large Vandal Resistant Light

VRS SERIES





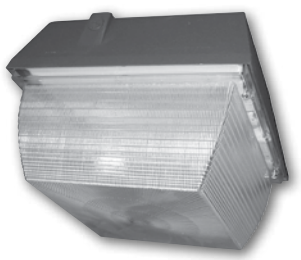
## SMALL VANDAL RESISTANT

- For large area perimeter and security lighting: Industrial, storage yards, parking areas, auto dealerships, landscape and recreational areas.
- Heavy duty die cast aluminum housing and hinged top frame, 1/2" coin plugs for conduit & photocell, textured architectural bronze powder finish over a chromate conversion coating.
- Aluminum smooth reflector with tempered flat clear glass lens.
- 2-piece swivel bracket, adjustable slipfitter for mounting.
- Listed for wet locations.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTS | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **VRS70MHQ** | Small Vandal Resistant 8x8 Square 70 Watt Metal Halide | 120/208/240/277VAC | QUAD HX-HPF | 16.63 | 16.13 | 7 | ED17 | Medium |

## LARGE VANDAL RESISTANT



- For canopy, parking garages and loading dock lighting.
- Die cast housing, chromate conversion coating and textured bronze finish and corrosion resistant stainless steel hardware.
- Polycarbonate lens, silicone gasketing and medium socket with white reflector.
- 1/2" coin plugs are provided for surface wiring.
- Listed for wet locations.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTS | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **VRS100MHQ** | Large Vandal Resistant 12x12 Square 100 Watt Metal Halide | 120/208/240/277VAC | QUAD HX-HPF | 12.4 | 12.3 | 8.6 | ED17 | Medium |

LED LIGHTING

# Security Light LED 35W

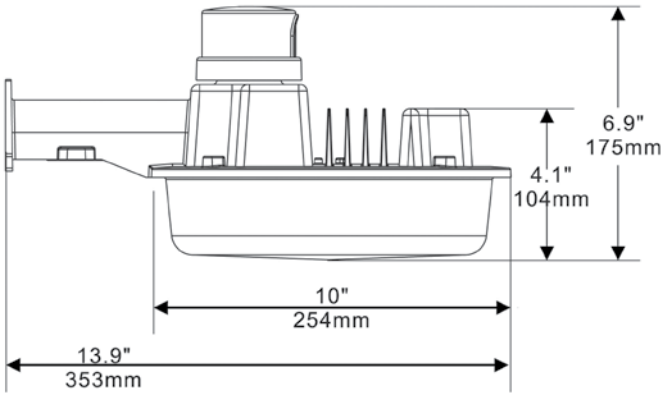
DTD35LED



## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Impact resistant lens.
- Photocontrol included.

The Dusk-to-Dawn Fixture of the future is here. Utilizing a single source LED, this dusk-to-dawn provides prismatic-designed light output for any environment. It comes with NEMA approved photocontrol which, when used with LED provides significant power savings. Maintaining all the strengths of the traditional dusk-to-dawn fixtures (such as installation brackets and arms) while employing the latest generation of LEDs, this LED dusk to dawn will last for years to come.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **DTD35LED** | 35 | 2650lm** | 5000K | 950 | 120VAC | 70+ | -30 °C | 100W-150W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LIGHTING

# Incandescent Loading Dock Lights

## TA-DOK SERIES





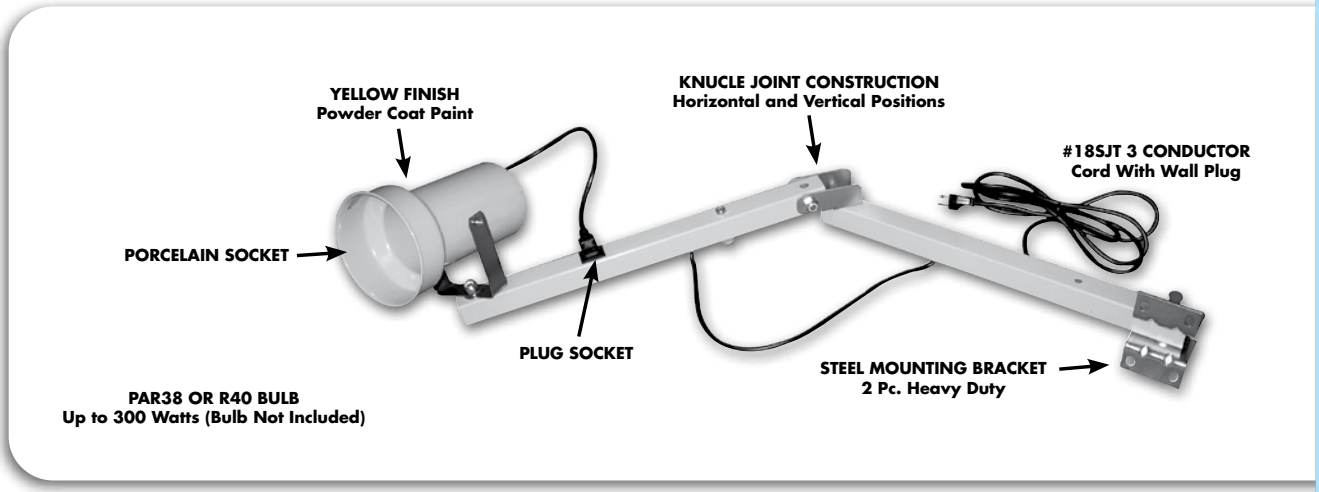
## FEATURES

- Adjustable pivot friction which maintains intended positions.
- 1-1/2″ square, 14 gauge steel arm resists damage from impact.
- 36″, 3 conductor #18SJT cord with wall plug is included.
- Lamp not included.

## RATINGS

c UL us

| CAT. NO | DESCRIPTION | COLOR |
|---|---|---|
| **TA-DOK 40VA** | 115VAC Extends 40 Inches | Yellow |
| **TA-DOK 60VA** | 115VAC Extends 60 Inches | Yellow |



LED LIGHTING

# Vaportite LED 13W Wall Mount

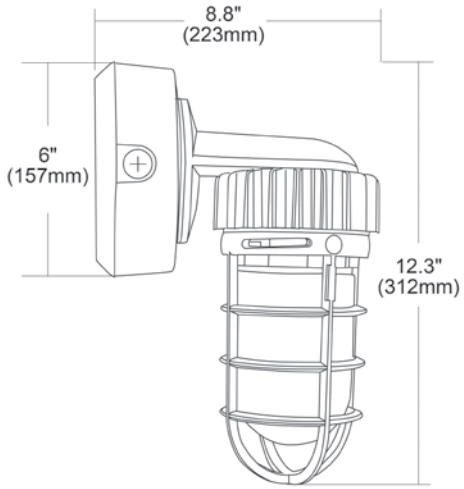
VTW13LED



## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Heat & impact resistant tempered glass lens.
- IP65 rated & IC protection.
- DLC Listed (Design Lights Consortium).

Heavy duty vapor-proof LED light is built to last. With industrial-grade rubber gaskets as sealants and automobile grade aluminum, this LED light is a beacon. With a COB LED inside, it provides performance lighting while utilizing very little power. Die-cast guard on the outside of the glass protects the high power LED. Fixture can be used in warehouse, docks, restaurants, and many other applications.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **VTW13LED** | 13 | 670lm** | 5000K | 700 | 120-277VAC | 70+ | -30 °C | 50W-70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Vaportite LED 13W Ceiling Mount

VTC13LED

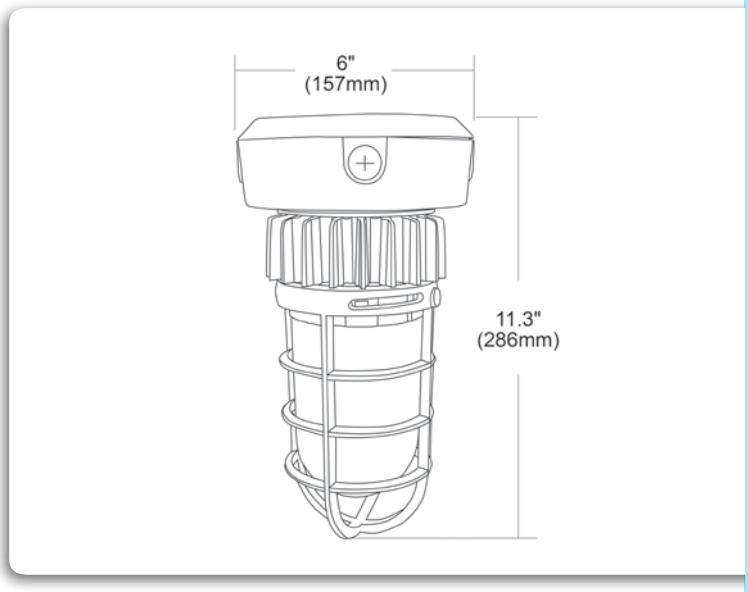




## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 5000k.
- 1/2" Conduit.
- Plugs on all 4 sides.

Heavy duty vapor-proof LED light is built to last. With industrial-grade rubber gaskets as sealants and automobile grade aluminum, this LED light is a beacon. With a COB LED inside, it provides performance lighting while utilizing very little power. Die cast guard on the outside of the glass protects the high power LED. Fixture can be used in warehouse, docks, restaurants, and many other applications.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **VTC13LED** | 13 | 670lm** | 5000K | 700 | 120-277VAC | 70+ | -30 °C | 50W-70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

# Short-term Lighting Systems, Accessories & Box & Wall Vaportite

## SLUL, SC, RS, VTB, VTW SERIES



## SHORT-TERM LIGHTING SYSTEMS

- *UL Listed.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

| CAT. NO | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **SLUL100*** | 1 | 100 Ft. With Molded Sockets In 10 Ft. Intervals. 150 Watts. Osha And Nec Compliant. High Visibility Yellow. | 1 |
| **SC200** | 2 | Standard Cage | 24 |
| **RS200** | 3 | Rotatable Socket 200 Watt | 24 |

## BOX AND WALL VAPORTITE

- For well or pit lighting, indicators on docks, industrial and commercial lighting.
- Heavy duty die cast aluminum housing.
- One piece locking die cast aluminum guard with grey polyester powder coat finish.
- Screw in tempered glass globe.
- Listed for wet location use.
- 1/2" NPT knockouts.
- Lamp not included.

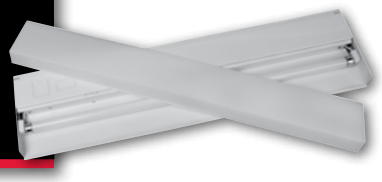
| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | HEIGHT | WIDTH | LAMP |
|---|---|---|---|---|---|
| **VTB15012** | 1 | Box 150 Watt ½" Vaportite | 9 | 4.125 | Incandescent |
| **VTW15012** | 2 | Wall 150 Watt ½ Vaportite | 10 | 7.13 | Incandescent |
| **CG150** | 3 | Clear Glass Globe for 150 Series Vaportite Fixtures | – | – | – |

# Fluorescent Undercabinet & Heavy Duty Ground Stake

## UCF SERIES







## FLUORESCENT UNDERCABINET

- For fluorescent undercabinet lighting is constructed of heavy duty steel with white powdercoat finish.
- UV inhibited acrylic diffuser with linear prism which snaps in for easy maintenance.
- T-5 4100K lamp included.
- Flourescent is great for energy savings.
- Ultra thin, 1" thick.
- K.O.s on top, side and back.
- Includes rocker switch.
- Lamp Included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTS | LENGTH | WIDTH | DEPTH |
|---|---|---|---|---|---|
| **UCF128WT5** | 8 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 12 | 5 | 1 |
| **UCF2113WT5** | 13 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 21 | 5 | 1 |
| **UCF2416WT5** | 16 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 24 | 5 | 1 |
| **UCF3321WT5** | 21 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 33 | 5 | 1 |
| **UCF4226WT5** | 26 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 42 | 5 | 1 |

## HEAVY DUTY GROUND STAKE

- Adjustable stabilizer and built in wiring compartment.
- Durable molded plastic with die cast fitting for 1⁄2" NPT threads.
- Two 1/2" coin plugs for enclosed wiring.
- Two 1/2" coin plugs outside for surface and through-wiring.



All dimensional data is listed in inches.

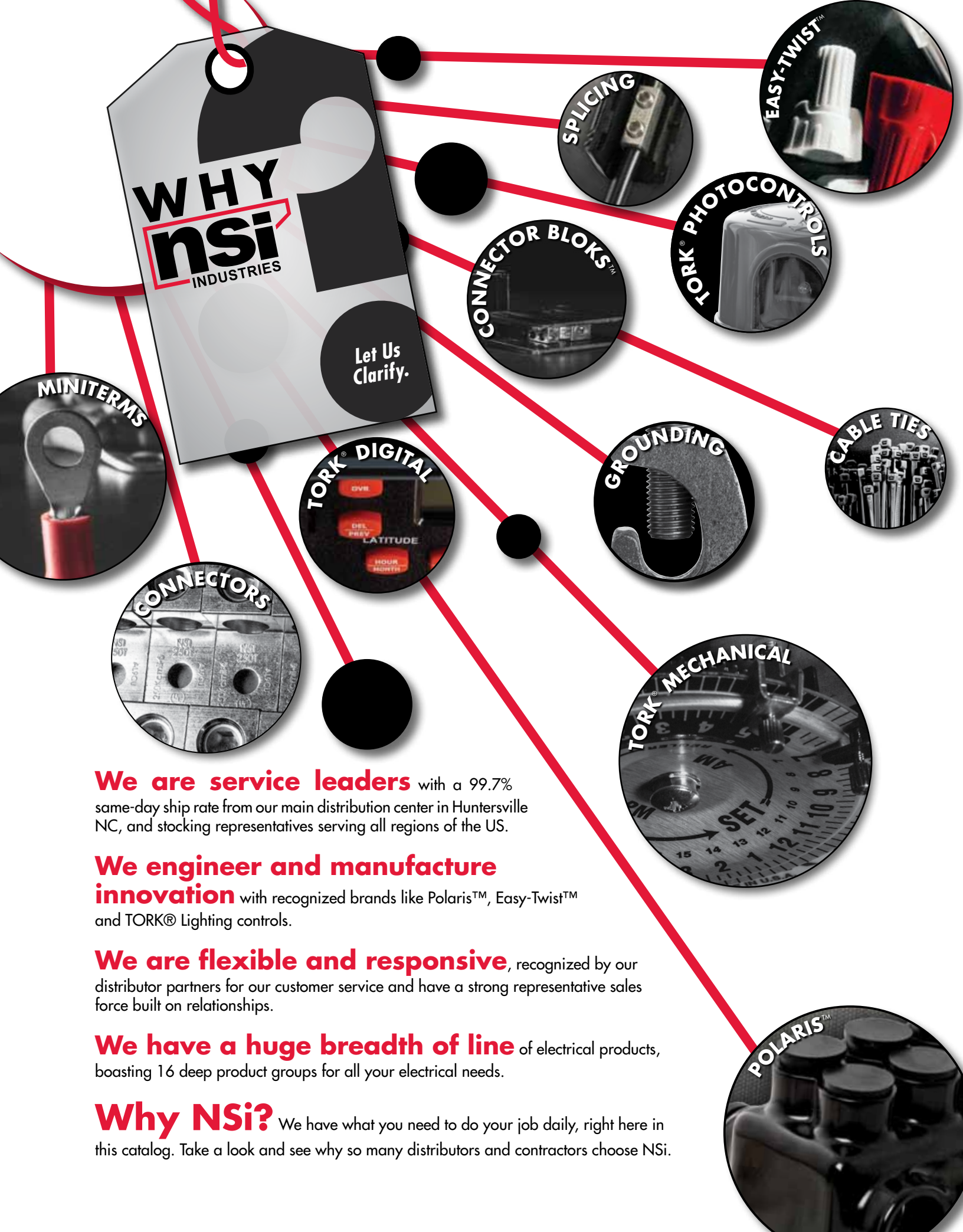
| CAT. NO. | DESCRIPTION | HEIGHT | WIDTH | DEPTH |
|---|---|---|---|---|
| **GST** | Non-metallic Heavy Duty Ground Stake | 19 | 9 | 3.5 |

# TORK®

nsi INDUSTRIES




4 HOUR
8 HOUR
SET
TURN PAST
MINUTES
TIMER
ON
OFF
CYCLE TIME
TORK
TIME
TORK
E101B




**We are service leaders** with a 99.7% same-day ship rate from our main distribution center in Huntersville NC, and stocking representatives serving all regions of the US.

**We engineer and manufacture innovation** with recognized brands like Polaris™, Easy-Twist™ and TORK® Lighting controls.

**We are flexible and responsive**, recognized by our distributor partners for our customer service and have a strong representative sales force built on relationships.

**We have a huge breadth of line** of electrical products, boasting 16 deep product groups for all your electrical needs.

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< ***Responsible Energy*** is the mark of TORK's commitment to developing and manufacturing energy saving, environmentally friendly products.

# EXTERIOR LIGHTING ZONES

When ambient light levels drop at dusk, lighting is needed to provide safety and security. BUT: Does all lighting need to be on all night long? The proper selection of lighting controls is essential to ensuring that energy is only used when needed. An efficient lighting control design creates zones of light levels that can be varied by time at night.

## ZONE 1 - DUSK TO DAWN - All night Security Lighting

Photocontrols and Photosensors

The first zone gives a minimum light level where security is the primary need. Determine what lighting is necessary, such as building-mounted wallpacks and a portion of the parking lot lighting. These should be on from dusk to dawn, and are best controlled by a photosensor device.

## ZONE 2 - DUSK TO TIME OFF - Safety and Architectural Lighting

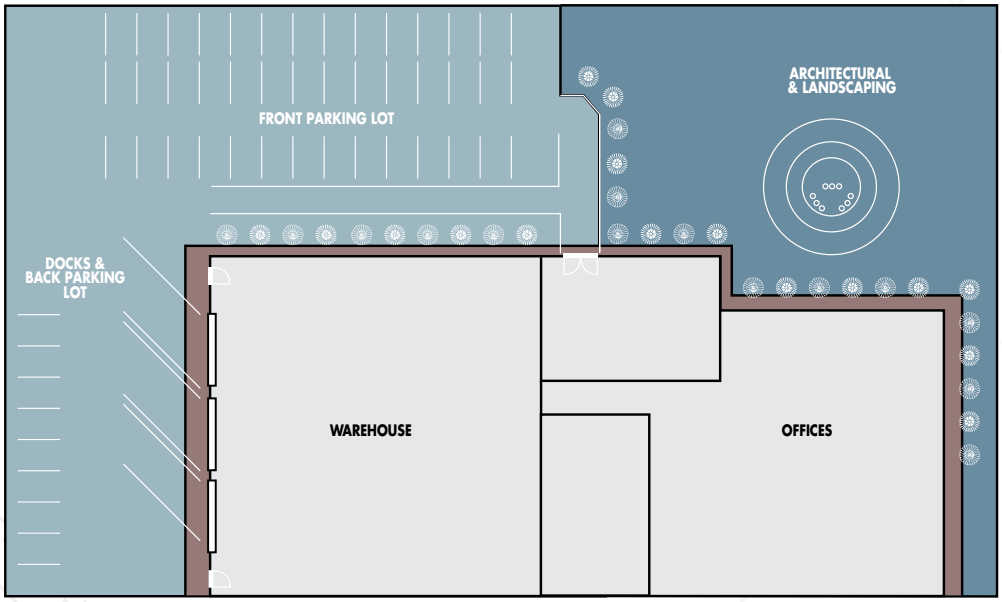
Photosensor/Time-based controls, Astronomic controls

The second zone provides a higher light level for safety, when people are normally present. Maximum levels for the parking lot and all walkway lighting are needed. These lights are best controlled by a combination photosensor and time-based device to allow shut-off during the night. The astronomic-calculated sunset/time control can also be useful.

## ZONE 3 - ARCHITECTURAL - Building Facade, Landscape and Signage

Astronomic controls

The third zone covers architectural lighting for building facade or landscape and signs. These are best controlled with an astronomic-calculated sunset/time control.




Energy Saving Solutions
Lighting Controls

< Use the Quick Reference ***Energy Code Guide*** for approved products.

***Responsible Energy***
Each of these marked products have features that decrease energy consumption and/or damage to the environment by one or more of the following:

- Timed control, Photocontrol and/or Astronomic control of on and off functions of lighting, fans, pumps and appliances
- Timed control of systems or multiple zones of lighting
- Photo or occupancy sensing control of lighting
- Supercapacitor backup, no batteries to replace or dispose.
- Helps meet CA Title 24, ASHRAE , IECC and other standards for responsible building products

# INTERIOR LIGHTING ZONES

The first way to save energy begins with eliminating lighting when it isn't needed. As with exterior lighting, an efficient design matches controls to the typical use of the area.

## ZONE A - SMALL SPACES - Meeting rooms, restrooms, storage spaces
Occupancy sensors, interval timers

The first zone includes small spaces such as offices, restrooms and storage areas – places where people may not occupy the space continuously. Individual wall switch replacement provides low cost installation, with occupancy sensors and interval timers as the best solution. In the event that wall switches do not provide proper coverage for the occupancy sensor, ceiling mounted options are available.

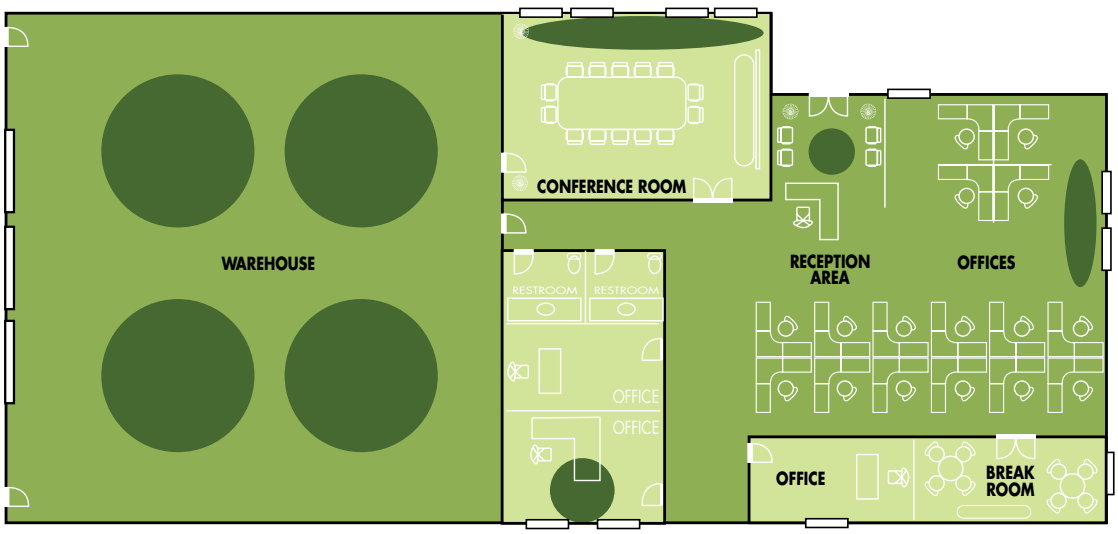
## ZONE B - LARGE SPACES - Open offices, public spaces, hallways, warehouses
Time of Day with Override, Occupancy Sensors

The second zone is for common areas, such as hallways, reception spaces or large spaces for open offices. These places are commonly controlled with time-of-day devices and must include an after-hours override. A conveniently placed switch should provide a limited override with a maximum length of two or four hours*, or occupancy sensors can be used to ensure that lights are shut off when people have left the building.

* Energy codes vary on the stated maximum time, but shorter times can give more energy savings.

## ZONE C - DAYLIGHT HARVESTING - Large or small spaces with natural light
Light Sensors, Light Sensors with Occupancy, Astronomic Timers

A third zone that uses daylighting control can be added to either of the first two zones. Light sensors can shut off a portion of the lighting when windows or skylights contribute sufficient natural light to the area. This "harvesting" of light is an excellent, green way to conserve energy.







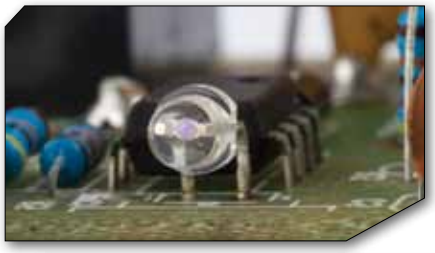
# TORK® PHOTOCONTROLS

# QUICK REFERENCE GUIDE

| | 2100 SERIES | 2110 SERIES | 2000 SERIES | 2001/ 2020 SERIES | 3000 SERIES | 5000M SERIES | 2005A SERIES | 2005B SERIES | 5200A SERIES | 5200-UL SERIES | 5737 SERIES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Page** | 435 | 436 | 437 | 438/439 | 440 | 441 | 443 | 444 | 445 | 446 | 447 |
| **Mounting** | Conduit | Conduit | Conduit | Conduit | Flush | Turn-Lock | Turn-Lock | Turn-Lock | Turn-Lock | Turn-Lock | Turn-Lock |
| **Adjustable Swivel** | | | | Yes | | | | | | | |
| **Housing** | Die Cast Zinc | Die Cast Aluminum | Lexan® | Lexan® | Lexan® | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic |
| **Turn ON Light Level** | 1 - 5 fc | 1 - 5 fc | 1 - 5 fc | 1 - 5 fc | 1 - 5 fc | 1 to 3 fc | 1 to 3 fc | 1.5 fc | 1.5 fc | 1.5 fc | 5 fc |
| **Light Level Adjustment** | Yes | Yes | Yes | Yes (2001) | | | | | | | |
| **Turn OFF Ratio** | 3:1 | 3:1 | 3:1 | 3:1 | 3:1 | 5:1 | 3:1 | 1.5:1 | 1.5:1 | 1.5:1 | 1.5:1 |
| **Time Delay ON** | Yes | Yes | Yes | Yes | Yes | Yes | Instant | Instant | Instant | Instant | Instant |
| **Time Delay OFF** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Light Sensor** | CdS | CdS | CdS | CdS | CdS | CdS | CdS | Filtered Silicon Sensor | Filtered Silicon Sensor | Filtered Silicon Sensor | Silicon Sensor |
| **CFL Compatible** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **LED Listed** | Yes | Yes | Yes | Yes | Yes | | | Yes | | Yes | |
| **Surge Protection** | | | | | | Yes | Yes | Yes | Yes | Yes | Yes |
| **Photo Timer** | | | | | | | | | | | Yes |

# FEATURES

## CHOICE OF PHOTOCELLS



Molded sealed IR filtered sensor resists effects of moisture and airborne contaminants. Available on turn-lock photocontrols. IR Filtering responds to the light spectrum near to that of a human eye.



Conformal coated CdS photocell resists effects of moisture and airborne contaminants. Available in 1/2" and 1" size on both wired and turn-lock photocontrols. Photocell responds to the light spectrum near to that of a human eye.

## TOUGH ENCLOSURES



All conduit and flush mounted models utilize die-cast zinc, die cast aluminum, or genuine Lexan® materials. All turn-lock models utilize high impact UV stabilized polypropylene, ABS, PBT or polycarbonate materials.

## TURN-LOCKS MEET ANSI C136.10



All models meet the current ANSI requirements for locking-type prongs and color coded voltage designations. Locking prongs are solid brass.

**ANSI Dome Color-Code**

| | |
|---|---|
| Grey | 105-130VAC |
| Maroon | 208-277VAC |
| Blue | 105-285VAC |
| Yellow | 480VAC |
| Green | 347VAC |

## CHOICE OF MOUNTING ORIENTATION



Models are available in fixed position or 180° swivel.

## DEPENDABLE PERFORMANCE

Built-in time delay prevents false switching due to light from passing vehicles, lightning, etc.

## QUALITY ASSURANCE

**TORK**® *Photocontrols are designed and manufactured with components which adhere to the highest industry standards. Trained personnel and in-process quality procedures ensure that every unit meets our strictest quality standards.*

# 2100 SERIES
## SPECIFICATION GRADE
## 1/2" CONDUIT MOUNTING
## DIE CAST ZINC PHOTOCONTROL




## APPLICATIONS

- Parking lot lighting
- Building perimeter lighting
- Outdoor signage

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy conformal coated 1" diameter.

**CONTACTS:** Remain closed between dusk and dawn. (The unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

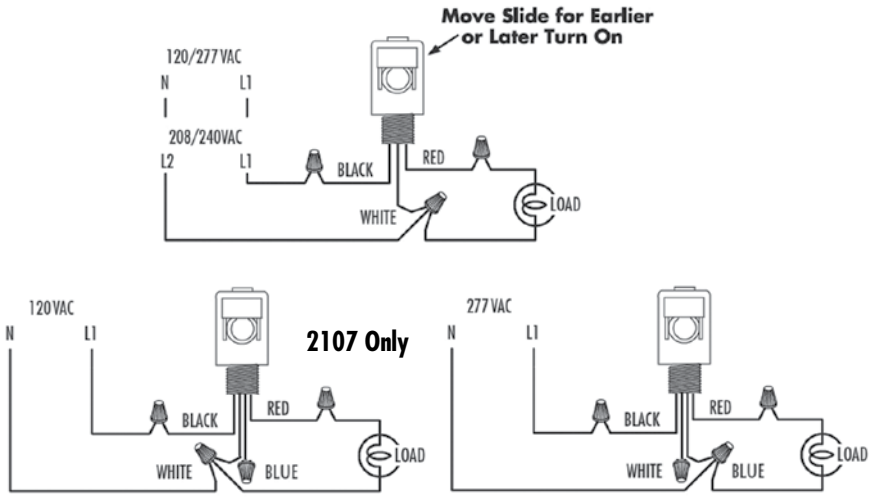
**STANDARDS:** Meets ANSI/UL773A.

**HOUSING:** Heavy Duty die cast zinc housing and base. Gasketed for maximum weather protection.

**ENERGY SAVINGS:** Works with screw base CFLs.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2101 | 60012 | 120 | 2000W | 1800VA | 600VA* |
| 2104 | 60013 | 208-277 | 2000W | 1800VA | 600VA* |
| 2107 | 60031 | 120/277 | 2000W | 1800VA | 600VA* |
| 73866 | 62020 | Mounting Bracket | - | - | - |

*LED rating for UL only.



# 2110 SERIES
## 1/2" CONDUIT MOUNTING
## DIE CAST ALUMINUM PHOTOCONTROL




## APPLICATIONS

- Parking lot lighting
- Building perimeter lighting
- Outdoor signage

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**STANDARDS:** Meets ANSI/UL773A.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

**HOUSING:** Die cast aluminum housing and base. Gasketed for weather protection.

**ENERGY SAVINGS:** Works with screw base CFLs.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy conformal coated 1/2" diameter. MODEL 2117 is 1" cell.

**CONTACTS:** Remain closed between dusk and dawn (the unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C. (2117 #10AWG red and black).

**POWER CONSUMPTION:** Averages under 1 watt.

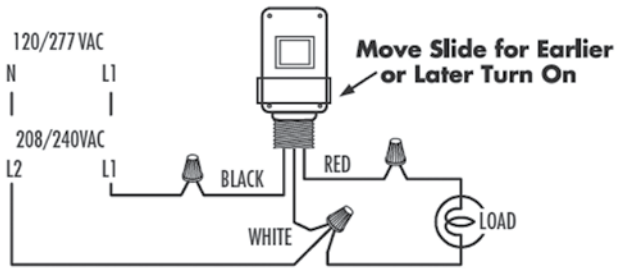
**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2115 | 60032 | 120 | 2000W | 1800VA | 600VA |
| 2116 | 60033 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| 2117* | 60037 | 120 | 3000W | 3000VA | - |
| 73866 | 62020 | Mounting Bracket | - | - | - |

*Not UL or CSA rated.



# 2000 SERIES

## 1/2" CONDUIT MOUNTING
## FIXED POSITION, LEXAN® HOUSING
## WITH WEATHERPROOF SEALANT
## PHOTOCONTROL



LISTED FOR LED

## APPLICATIONS

- Flood lamp
- Patio lamp
- Decorative lighting

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

**STANDARDS:** Meets ANSI/UL773A.

**HOUSING:** All Lexan® enclosures are impact and vandal resistant. Translucent Lexan® Dome prolongs cell life by further screening out ultraviolet rays. Dome and base are ultrasonically welded for maximum strength.

**ENERGY SAVINGS:** Works with screw base CFLs.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy comformal coated 1/2" diameter.

**CONTACTS:** Remain closed between dusk and dawn. (The unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.

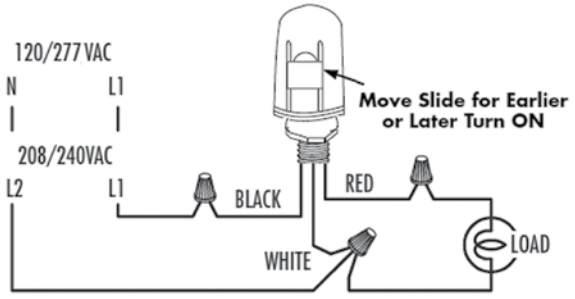
**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2000 | 60017 | 120 | 2000W | 1800VA | 600VA |
| 2000-2 | 60018 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| 73866 | 62020 | Mounting Bracket | - | - | - |



# 2001 SERIES
## 1/2" CONDUIT MOUNTING
## 180° SWIVEL, LEXAN® HOUSING
## PHOTOCONTROL




## APPLICATIONS

- Flood lamp
- Patio lamp
- Decorative lighting

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy comformal coated 1/2" diameter.

**CONTACTS:** Remain closed between dusk and dawn. (The unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

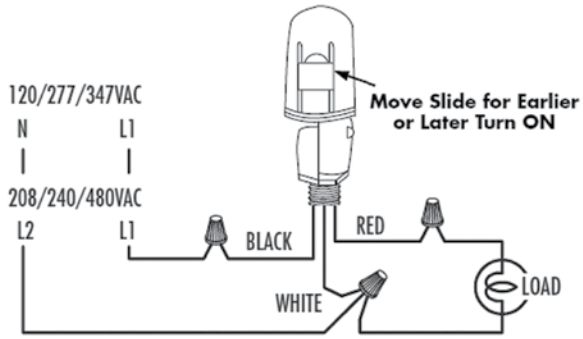
**STANDARDS:** Meets ANSI/UL773A.

**HOUSING:** All Lexan® enclosures are impact and vandal resistant. Translucent Lexan® Dome prolongs cell life by further screening out ultraviolet rays. Dome and base are ultrasonically welded for maximum strength.

**ENERGY SAVINGS:** Works with screw base CFLs.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2001 | 60015 | 120 | 2000W | 1800VA | 600VA |
| 2002 | 60016 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| NEW! 2006* | 60028 | 347 | 5760W | 3470VA | - |
| 2018** | 62021 | 480 | 7500W | 4800VA | - |
| 73866 | 62020 | Mounting Bracket | - | - | - |

*CSA certified only. **Not UL or CSA rated.



# 2020 SERIES
## 1/2" CONDUIT MOUNTING
## 180° SWIVEL, LEXAN® HOUSING
## PHOTOCONTROL



LISTED FOR LED

## APPLICATIONS

- Flood and patio lamps
- Decorative lighting
- Ideal for applications where it is essential to aim the photocell in an exact direction to sense natural light but avoid artificial light.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy conformal coated 1/2" diameter.

**CONTACTS:** Normally closed (the unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

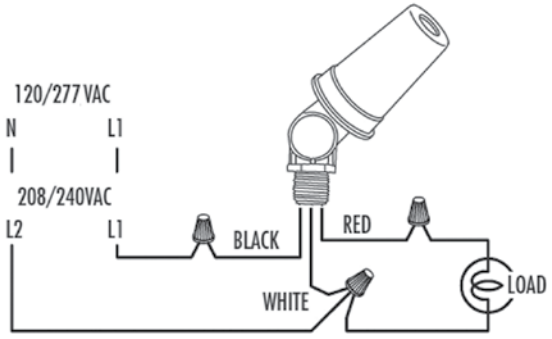
**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

**STANDARDS:** Meets ANSI/UL773A.

**HOUSING:** All Lexan® enclosures are impact and vandal resistant, cover and base are ultrasonically welded for maximum strength.

**ENERGY SAVINGS:** Works with screw base CFLs.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2021 | 60024 | 120 | 2000W | 1800VA | 600VA |
| 2022 | 60025 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| 73866 | 62020 | Mounting Bracket | - | - | - |



# 3000 SERIES
## FLUSH MOUNTING LEXAN® HOUSING PHOTOCONTROL



Flush Mounting
Model 3010

## APPLICATIONS

- Pole lanterns
- Lawn lighting
- Walkways

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, conformal coated 1/2" diameter.

**CONTACTS:** Normally closed (the unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 9" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °F).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

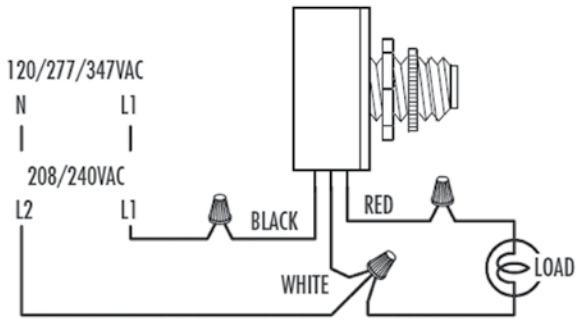
**STANDARDS:** Meets ANSI/UL773A.

**HOUSING & MOUNTING:** Control housing is weather-resistant molded Lexan® with ultrasonically welded seams.
MODEL 3000: Flush mounting through .6875" hole in post lantern or lighting fixture, ⅜" NPT, stem ¾" long. Gasket and nut supplied.
MODEL 3010: flush mounting into standard, raintight junction box. Includes aluminum plate and gasket to fit FS type outdoor junction box.

**ENERGY SAVINGS:** Works with screw base CFLs.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 3000 | 60020 | 120 | 2000W | 1800VA | 600VA |
| 3002 | 60019 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| NEW! 3006 | 60026 | 347 | 5760W | 3470VA | - |
| 3010 | 60021 | 120 | 2000W | 1800VA | 600VA |

*CSA certified only.



# 5000M SERIES

## DELAYED RESPONSE UTILITY GRADE MOV SURGE ARRESTOR PHOTOCONTROL



## APPLICATIONS

- For use on streets, highways and other luminaries equipped with locking type receptacles, where most stringent surge protection is needed.

## SPECIFICATIONS

**ON/OFF:** Turn-ON is 1 to 3 fc. Turn-OFF to Turn-ON ratio is 5 max.

**TIME DELAY:** ON and OFF.

**CELL:** CdS, epoxy conformal coated ½" and 1" diameter models.

**SURGE ARRESTOR:** 380 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.

**LOCKING PRONGS:** Solid brass for maximum corrosion resistance and electrical conductivity.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 3 years.

## FEATURES

**SENSOR:** Conformal coated CdS photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delayed response prevents false switching due to light from vehicles or lighting, etc.

**STANDARDS:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.

**ANSI DOME COLOR-CODE:** Grey 105-130VAC, Maroon 208-277VAC, Blue 105-285VAC, Yellow 480VAC, Green 347VAC.

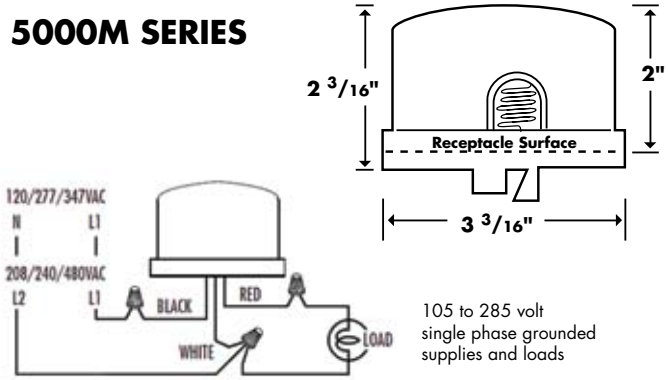
**HOUSING:** Polycarbonate housing and window, UV stabilized for permanent color. Provides high impact performance, flammability resistance, and electrically safe operations.

**CONTACTS:** Bi-metal provides positive snap action switching, reducing bounce and prolonging contact life.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | LIGHT SENSOR | RATING | |
|---|---|---|---|---|---|
| | | | | TUNGSTEN | BALLAST |
| 5001M | 61012 | 105-130 | 1" | 2000W | 1800VA |
| 5004M | 61013 | 208-277 | 1" | 3470-4620W | 2080-2770VA |
| 5007M | 61014 | 105-130/208-285 | 1/2" | 2000W/ 3470-4620W | 1800VA/ 2080-2770VA |
| 5008M* | 61017 | 480 | 1" | 7500W | 4800VA |
| 5021M | 61015 | 105-130 | 1/2" | 2000W | 1800VA |
| 5024M | 61016 | 208-277 | 1/2" | 3470-4620W | 2080-2770VA |
| NEW! 5026M** | 61045 | 347 | 1/2" | 5760W | 3470VA |

*Not UL listed or CSA certified. **CSA certified only.

### 5000M SERIES




105 to 285 volt single phase grounded supplies and loads

# 5400A SERIES
## CONTACTORS WITH TURN-LOCK PHOTOCONTROL




## APPLICATIONS

- For street lighting. Controls all lighting loads in excess of the capacity of the photoelectric control contacts.

## SPECIFICATIONS

**RECEPTACLE:** 3-prong turn-lock meets the requirements of EEI NEMA.

**POWER CONSUMPTION:** Maximum 3 watts during daylight.



| CAT. NO. | UPC CODE | PHOTOCONTROL INCLUDED | VOLTAGE (VAC) 60Hz | SWITCH |
|---|---|---|---|---|
| 5403A | 81012 | 2005B | 120 | DPST |
| 5404A | 81013 | 2007B | 208-240 | DPST |
| 5404-3A | 81014 | 2007B | 277 | DPST |

## FEATURES

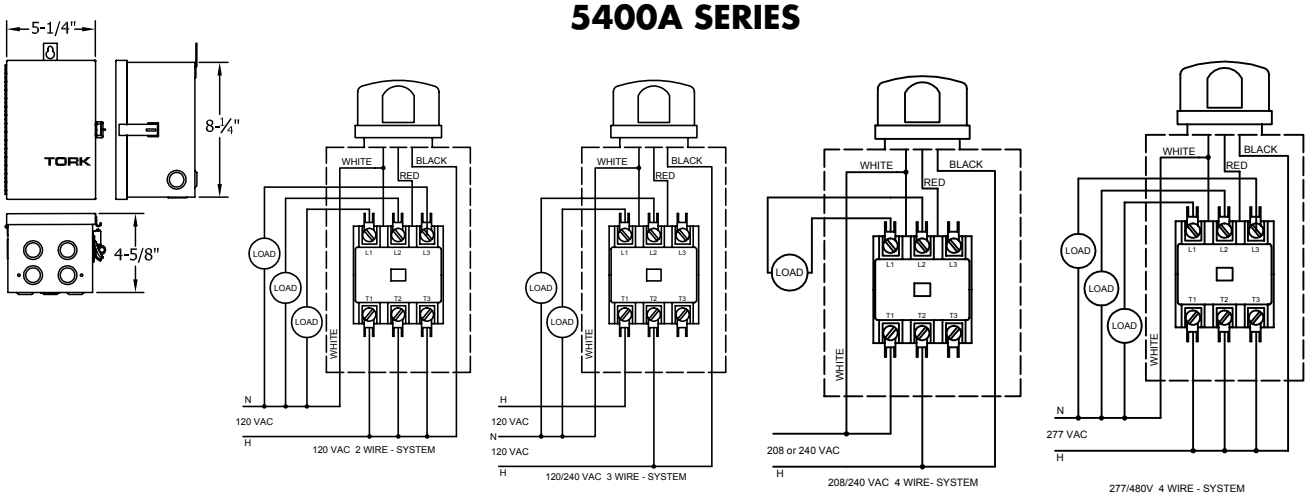
**OPERATION:** Delay up to two minutes to prevent false switching due to light from passing vehicles, lighting, etc. Photocontrol provides dusk to dawn control of lighting contactor for heavy duty switching.

**STANDARDS:** Meets UL773 and ANSI C136.10 for photocontrols.

**HOUSING:** Outdoor NEMA Type 3R. Beige enamel finish. Two 1/2"– 3/4" combination KO in bottom.

| TYPE | VOLTAGE (VAC) | CONTACT RATING PER POLE |
|---|---|---|
| Resistive | 120-277 | 40A |
| Tungsten | 120 | 30A |
| Ballast | 120-277 | 40A |
| LED | 120-277 | 40A |
| Motor | 120<br>240 | 3HP<br>7.5HP |

## 5400A SERIES



# 2005A SERIES
## INSTANT RESPONSE TURN-LOCK PHOTOCONTROL



## APPLICATIONS

- For state and county DOT & municipalities use on roadway and bridges. Also use for general commercial facilities.

## SPECIFICATIONS

**ON/OFF:** Turn-ON is 1.5 foot candle +/-0.5 OFF/ON ratio is 1.5:1 average.

**TIME DELAY:** Instant ON/3-5 seconds OFF.

**CELL:** CdS, epoxy conformal coated ½" diameter.

**RELAY:** Rated life 6,000 operations

**SURGE ARRESTOR:** 360 joules MOV exceeds NEMA and ANSI requirements.

**LOCKING PRONGS:** Solid brass prongs for maximum corrosion resistance and electrical conductivity.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °C).

**FAIL MODE:** ON.

**WARRANTY:** 3 years.

## FEATURES

**SENSOR:** Conformal coated CdS photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

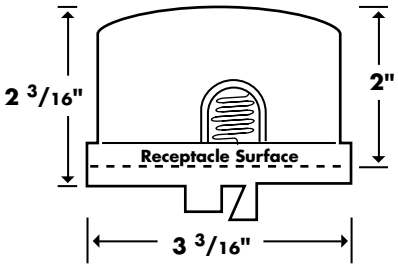
**STANDARDS:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.

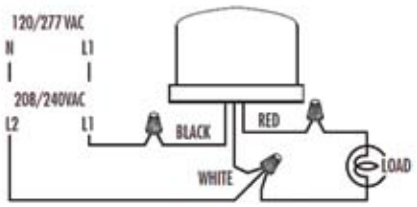
**HOUSING:** Polypropylene, UV stabilized, permanent color with UV resistant clear acrylic window. Provides high impact, flammability resistance and electrically save operations.

**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | RATING | |
|---|---|---|---|---|---|
| | | | | TUNGSTEN | BALLAST |
| 2005A | 62012 | 105-130 | Grey | 1000W | 1800VA |
| 2007A | 62013 | 105-285 | Blue | 1000W | 1800VA |

### 2005A SERIES




105 to 285 volt single phase grounded supplies and loads

# 2005B SERIES
## INSTANT RESPONSE TURN-LOCK PHOTOCONTROL




## APPLICATIONS

- For state and county DOT & municipalities use on roadway and bridges. Also use for general commercial facilities.

## SPECIFICATIONS

**ON/OFF:** Turn-ON is 1.5 foot candle +/-0.2 OFF/ON ratio is 1.5:1 average.

**TIME DELAY:** Instant ON/3-5 seconds OFF.

**CELL:** Molded sealed IR filtered sensor

**RELAY:** Rated life 6,000 operations

**SURGE ARRESTOR:** 360 joules MOV exceeds ANSI and NEMA requirements.

**LOCKING PRONGS:** Solid brass prongs for maximum corrosion resistance and electrical conductivity.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °C).

**FAIL MODE:** ON.

**WARRANTY:** 6 years.

## FEATURES

**SENSOR:** Molded sealed IR filtered sensor resists effects of moisture and airborne contaminants. IR filter responds to the light spectrum near to that of a human eye.

**STANDARDS:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.

**HOUSING:** Polycarbonate housing and window, UV stabilized for permanent color. Polycarbonate provides high impact performance, flammability resistance, and electrically safe operations.

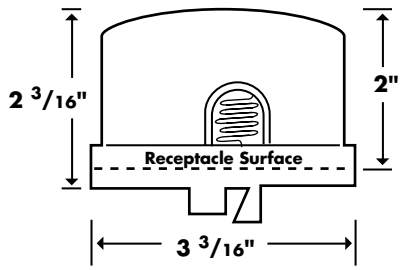
**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

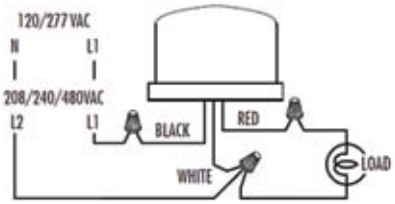
**CUSTOM:** Available for custom design to meet specific utility specification including light level activation and dome colors. Dome colors available include Black, Brown, Orange and Green along with ANSI colors.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | RATING | | LED |
|---|---|---|---|---|---|---|
| | | | | TUNGSTEN | BALLAST | |
| 2005B | 60015 | 105-130 | Grey | 1000W | 1800VA* | 4 Amps |
| 2007B | 60016 | 105-305 | Blue | 1000W | 1800VA* | 4 Amps |
| 2008B** | 62017 | 400-550 | Yellow | 1000W | 1800VA | 4 Amps |

*cUL Listed 1000VA. ** Not UL or cUL Listed.

### 2005B SERIES




105 to 305 volt single phase grounded supplies and loads

# 5200A SERIES
## UTILITY GRADE ELECTRONIC WITH FAIL ON MODE PHOTOCONTROL



## APPLICATIONS

- Designed meet local utility standards for street and highway lighting controls.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1.5 foot candle +/- 0.2 OFF/ON ratio is 1.5:1 average*.

**TIME DELAY:** Instant ON/3-5 second OFF.

**CELL:** Molded sealed IR filtered sensor.

**RELAY:** Rated life 5,000 operations.

**SURGE ARRESTOR:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.

**LOCKING PRONGS:** Solid brass for maximum corrosion resistance and electrical conductivity.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Molded sealed IR filtered sensor resists effects of moisture and airborne contaminants. IR filtered responds to the light spectrum near to that of a human eye.

**STANDARDS:** Meets ANSI C136 including color designations. Also meets EEI NEMA standards.

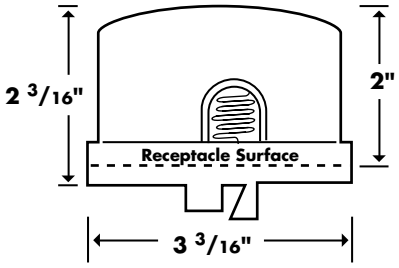
**HOUSING:** Polycarbonate housing and window, UV stabilized for permanent color. Polycarbonate provides high impact performance, flammability resistance, and electrically safe operations.

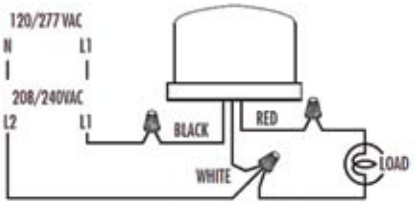
**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

**CUSTOM:** available for custom design to meet specific utility specification including light level activation and dome colors. Dome colors available include Black, Brown, Orange and Green along with ansi colors.

| CAT.NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | RATING | |
|---|---|---|---|---|---|
| | | | | TUNGSTEN | BALLAST |
| 5231A | 78898 | 105-130 | Grey | 1000W | 1800VA |
| 5237A | 78899 | 105-305 | Blue | 1000W | 1800VA |

### 5200A SERIES




105 to 305 volt single phase grounded supplies and loads

# 5200-UL
## INSTANT RESPONSE TURN-LOCK PHOTOCONTROL




## APPLICATIONS

- Designed meet local utility standards for street and highway lighting controls.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1.5 foot candle +/- 0.2 OFF/ON ratio is 1.5:1 average.

**TIME DELAY:** Instant ON/3-5 second OFF.

**CELL:** Molded sealed IR filtered sensor

**RELAY:** Rated life 6,000 operations

**SURGE ARRESTOR:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.

**LOCKING PRONGS:** Solid brass for maximum corrosion resistance and electrical conductivity.

**CUSTOM:** Available for custom design to meet specific utility specification.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °C).

**FAIL MODE:** ON.

**WARRANTY:** 8 years.

## FEATURES

**SENSOR:** Molded sealed IR filtered sensor resists effects of moisture and airborne contaminants. IR filter responds to the light spectrum near to that of a human eye.

**STANDARDS:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.

**HOUSING:** Polycarbonate housing and window, UV stabilized for permanent color. Polycarbonate provides high impact performance, flammability resistance, and electrically safe operations.

**ENERGY SAVINGS:** Listed for use with LED lamp drivers.

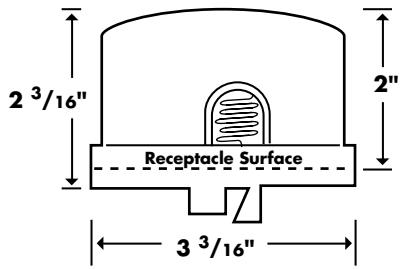
**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

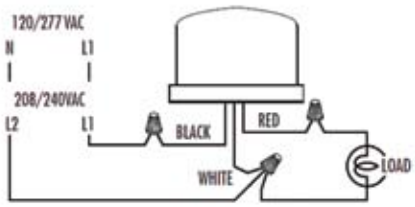
**CUSTOM:** Available for custom design to meet specific utility specification.

| | CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | RATING TUNGSTEN | RATING BALLAST | RATING LED |
|---|---|---|---|---|---|---|---|
| NEW! | 5237-UL | 78895 | 105-305 | Blue | 1000W | 1800VA* | 1000W |

*cULus Listed 1000VA.

### 5237-UL




105 to 305 volt single phase grounded supplies and loads

# 5737 SERIES

**ON AT DUSK, OFF AT MIDNIGHT**
**ON EARLY MORNING,**
**OFF AT DAWN**
**PHOTO-TIMERS**




## APPLICATIONS

- Offices
- Restaurant signage
- Billboards
- Landscape and yard lighting

- Ideal for situations when visible traffic is reduced – lights ON at dusk and OFF at 10pm or later, then on again for early morning illumination.

## FEATURES

**OPERATION:** Microprocessor tracks the dusk and dawn times with the seasons and automatically determines midnight, NO PROGRAMMING REQUIRED. Automatically "re-learns" and resets after power outage, eliminating costly maintenance. DST correction built in.

**STANDARDS:** Meets ANSI C136.10 including color designations. Also meets EEI NEMA standards.

**HOUSING:** UV stabilized, ANSI color-coded polypropylene dome. UV stabilized, clear acrylic window. ABS base. Cross-linked, polypropylene gasket.

**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

## SPECIFICATIONS

**ON/OFF:** Turn ON at dusk is 5.0 foot candle +/- 0.5 OFF/ON ratio is 1.5:1 average.

**TIME DELAY:** Instant ON/3-5 seconds OFF.

**CELL:** Silicon photosensor

**SURGE ARRESTOR:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.

**5737TM HALF-NIGHT FUNCTION:** Allows user to adjust OFF time during the night. OFF time can be set for up to two hours before (for extra energy savings) or up to two hours after midnight. Use to stagger groups of lights to go OFF at different times during the night.

**5737TZ TWO FUNCTION:**
1) Standard: Set as a Dusk to Dawn photocontrol.
2) Half-night & Pre-Dawn: Turns on at Dusk. User adjusts OFF time for up to two hours before or after midnight. Then set countdown to Pre-dawn ON again 2 - 10 hours later. It always turns OFF at Dawn.

**LOCKING PRONGS:** Solid brass Prongs for maximum corrosion resistance and electrical conductivity.

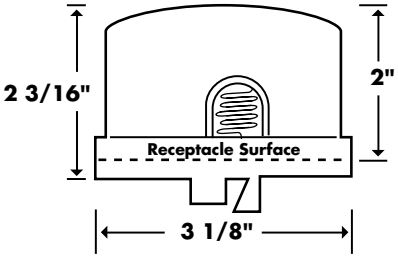
**TEMPERATURE RANGE:**
-40 °F to +158 °F (-40 °C to +70 °C).

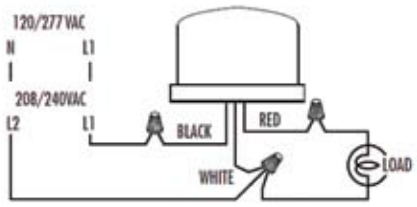
**FAIL MODE:** ON.

**WARRANTY:** 3 years.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | SWITCH | RATING | |
|---|---|---|---|---|---|---|
| | | | | | TUNGSTEN | BALLAST |
| 5737TZ | 62010 | 105-305 | Blue | SPST | 1000W | 1800VA |
| 5737TM | 62009 | 105-305 | Grey | SPST | 1000W | 1800VA |

## 5237 SERIES




**105-305 VAC**
**single phase grounded supplies and loads**

# PHOTOCONTROL ACCESSORIES
## FOR TURN-LOCK CONTROLS



### REPLACEMENT CAPS

5500 replaces photocontrol to change light fixture to always ON.
5500-OC replaces photocontrol to change light fixture to always OFF.
Durable materials and gasket provide longevity and weatherproof protection.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 5500 | 61130 | Shorting cap, 480VAC max 1800W Tungsten, 1800VA Ballast |
|  | 5500-OC | 61132 | Open cap, 480VAC max (Black housing) |

### MOUNTING BRACKET

Utility mounting bracket for 1/2" threaded conduit photocontrols.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 73866 | 62020 | Mounting Bracket |

### RECEPTACLE

120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, mounting bracket and one mounting screw.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 2224 | 61026 | Receptacle and mounting bracket |

### RECEPTACLE

120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, gasket and two mounting screws.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 2223 | 61025 | Receptacle with gasket |

### RECEPTACLE

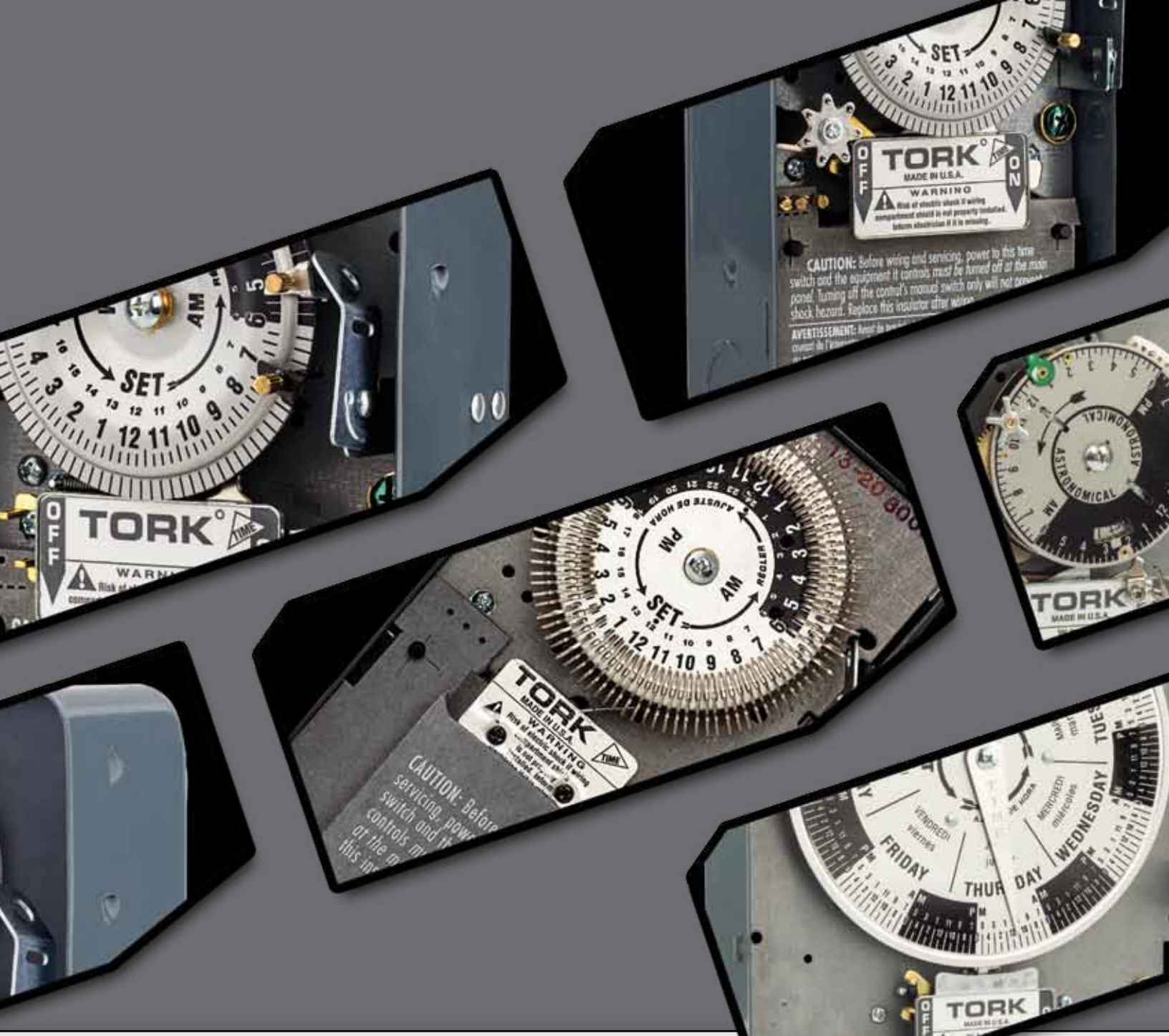
120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, plastic housing, lock nut (with 1/2" NPT) and a mounting bracket.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 2421 | 61021 | Receptacle with plastic housing and bracket |



NSi offers many splicing options to complete the pole installation.
See the splicing section pages 217- 238.


12
9
6
POWER




# TORK® ELECTROMECHANICAL TIME SWITCHES

# QUICK REFERENCE GUIDE

| SERIES | PAGE NO. | CLOCK DIAL | MINIMUM SETTINGS (MINUTES) ON | MINIMUM SETTINGS (MINUTES) OFF | SKIP A DAY | MANUAL OVERRIDE | SUNRISE/ SUNSET | MAX ON & OFF EVENTS PER DAY | SWITCH TYPES | RATINGS (AMPS) | RESERVE POWER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TU40 | 453 | 24 Hour | 15 | 15 | | Permanent | | 48 | SPST, DPST, SPDT, DPDT | 40 | |
| 1100 | 455 | 24 Hour | 20 | 75 | | Yes | | 12 | SPST, DPST | 40 | |
| 7000 | 457 | 24 Hour | 20 | 75 | Yes | Yes | | 12 | SPST, DPST, SPDT, DPDT, 3PST | 40 | Available |
| 7000Z | 459 | 24 Hour | 20 or 40 Minute Offset | | Yes | Yes | SunSet | 1 | DPST, SPDT, 3PST | 40 | Available |
| TZ | 473 | 24 Hour | 20 or 40 Minute Offset | | Yes | Permanent by circuit | SunSet | 1 | DPDT, 3PST | 20 | Standard |
| W | 467 | 7 Day | 60 | 120 | Yes | Yes | | 2 | SPST, DPST, SPDT, DPDT, 3PST 4PST | 40 | Available |
| TW | 471 | 7 Day | 60 | 120 | Yes | Permanent by circuit | | 2 | DPDT, 3PST | 20 | Standard |
| T900 | 469 | 7 Day | 60 | 120 | Yes | Permanent by circuit | Photo Control | 2 | 2 SPDT 3 SPDT | 20 | Standard |
| 1847A | 465 | 24 Hour | 20 | 75 | Yes | | | 12 | SPDT, Momentary Contact | 10 | Available |
| 1847AW | 465 | 7 Day | 60 | 120 | Yes | Yes | | 2 | SPDT, Momentary Contact | 10 | Available |
| 8000 | 461 | 24 Hour | 15 | 15 | Available | | | 48 | SPDT | 20 | Available |
| 8000 | 463 | 6, 12, 30 & 60 Min. | Varies by dial 6 sec. to 1 min. | | | | | 30/dial | SPDT | 20 | |
| WH2B | 464 | 24 Hour | 20 | 75 | | Yes | | 12 | DPST | 40 | |

# FEATURES

## EASY TO SET DIAL ASSEMBLY




Tork's 24 hour dial assembly allows the user to set the time switch more accurately, easily moving it by hand in small increments. Dial can provide up to 12 ON/OFFs per day with cycles as short as 20 minutes. AM and PM settings are easy to see by the light and dark areas of the dial.

## CAPTIVE TABS – DUTY CYCLE DIAL




For applications requiring many ON/OFF cycles per day, captive tabs on this dial tilt in and out just using your fingertip!

## FIELD UPGRADEABLE TO SunSet DIALS




All Tork 24 hour time switches can be upgraded in the field to a SunSet timer dial.

## SPRING WOUND RESERVE



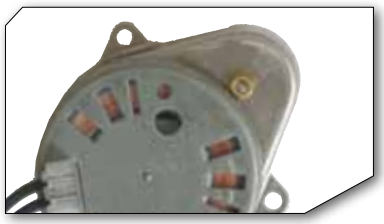
During power outages, precision spring mechanism takes over instantly and automatically. Keeps the mechanism on time up to 16 hours on 24 hour models and up to 24 hours on 7 day models. No resetting is needed after power resumes, and field installation is easy.

## REMOVABLE DOOR



Tork time switches feature removable doors to provide easy access for installation and wiring.

## ENCLOSED MOTOR



Time switch motors are enclosed to protect from dust and damage.

## QUALITY ASSURANCE

**TORK**® *Electromechanical Controls are designed and manufactured with components which adhere to the highest industry standards. Trained personnel and in-process quality procedures ensure that every unit meets our strictest quality expectations.*

# TU40 SERIES
## UNIVERSAL MULTI-VOLTAGE
## SAME ON/OFF TIMES EACH DAY
## 24 HOUR TIME SWITCH




**ALL PURPOSE CONTACTS, HOUSING, & VOLTAGES!**

## APPLICATIONS

- Lighting
- Pumps
- Signs
- Air conditioning
- Water heaters
- Fans

## FEATURES

**MULTI-VOLTAGE:** Automatic input voltage detection.

**EASY SET:** Real time clock face and day/night markings for setting trippers.

**SCHEDULING:** Minimum ON is setting 15 minutes. Dial has 96 captive trippers.

**4 in 1 CONTACTS:** DPDT can also wire as SPST, SPDT, & DPST.

**BYPASS SWITCH:** Sets timer to permanent ON, OFF or timer operation.

**VACATION MODE:** Set timer OFF with no change of tripper settings.

**INDICATING LIGHTS:** Power ON green and load ON red and LED indicators.

**STANDARDS:** Listed UL60370 (formerly UL917).

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 60Hz | DRY CONTACTS (UNPOWERED) | ENCLOSURE TYPE |
|---|---|---|---|---|
| TU40 | 24000 | 120/208-240/277 | DPDT | Plastic Indoor/Outdoor NEMA 3R |
| TU40-Y | 24001 | 120/208-240/277 | DPDT | Metal Indoor NEMA 1 |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120/208-240/277VAC, 60Hz (auto detection).

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #18 AWG.

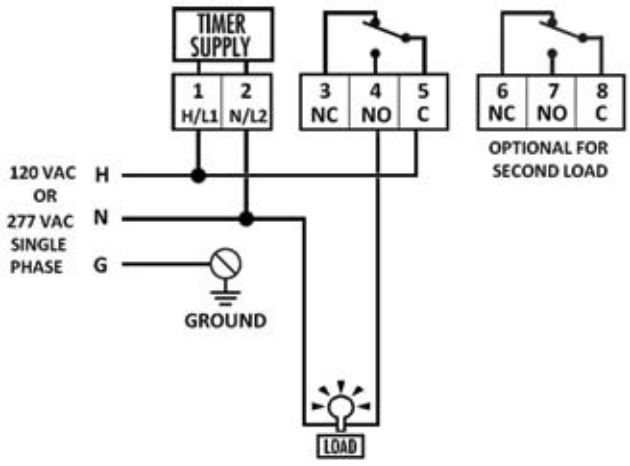
**OPERATING TEMPERATURE:** -31°F to 116°F (-35°C to +47°C).

**POWER CONSUMPTION:** 6 watts maximum.

**ENCLOSURE:** Polycarbonate Indoor/Outdoor NEMA 3R or -Y suffix metal indoor NEMA 1 enclosure. Both with lockable hasp standard (See pages 589-593 for dimensions).

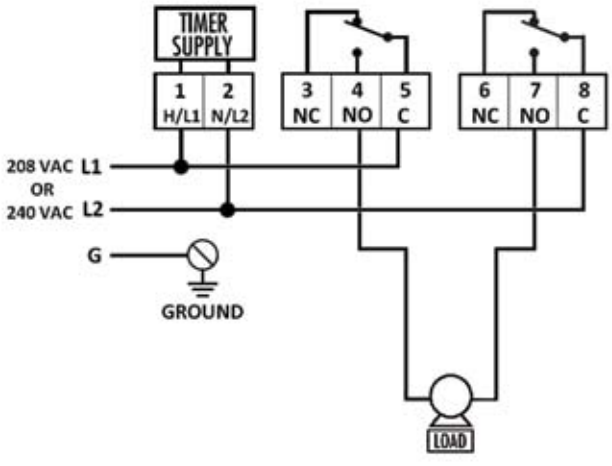
| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| General Purpose | 120-277 | 40A | 30A |
| Inductive | 120-277 | 30A | 15A |
| Ballast | 120 | 30A | 10A |
| | 277 | 20A | 10A |
| Tungsten | 120 | 15A | |
| Motor Load | 120 | 1HP, 30FLA, 90LRA | ¼HP, 12FLA, 30LRA |
| | 240 | 2HP, 20FLA, 60LRA | ½HP, 12FLA, 33LRA |
| Pilot Duty | 120 | 720VA | 290VA |
| | 240 | 720VA | 360VA |
| Resistive | 28VDC | 20A | |
| Max above 104°F | 120-277 | 30A | |

TYPICAL SPST WIRING - LOAD SAME VOLTAGE AS TIMER SUPPLY




CONNECT LINE VOLTAGE (H) TO TERMINAL 5

TYPICAL DPST WIRING - LOAD SAME VOLTAGE AS TIMER SUPPLY




CONNECT LINE VOLTAGE (L1) TO TERMINAL 5
CONNECT LINE VOLTAGE (L2) TO TERMINAL 8

# 1100 SERIES
## SAME DAY ON/OFF TIMES EACH DAY
## 24 HOUR TIME SWITCH




## APPLICATIONS

- Lighting
- Pumps
- Signs
- Air conditioning
- Water heaters
- Fans

- Automatic ON/OFF control when operation is required at the same time every day.

## FEATURES

**SCHEDULING:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF automatic operation then resumes.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 1101B | 10064 | 120 | SPST | Metal Indoor NEMA 1 |
| 1101B-P | 10068 | 120 | SPST | Polycarbonate Indoor/ Outdoor NEMA 3R |
| 1101B-PC | 10095 | 120 | SPST | Polycarbonate Outdoor w/ clear cover NEMA 3R |
| 1101BM-IAP | 10073 | 120 | SPST | Mechanism and retrofit plate |
| 1101-7 ** | 10033 | 347 | SPST | Metal Indoor NEMA 1 |
| 1102B | 10065 | 208-277 | SPST | Metal Indoor NEMA 1 |
| 1103B | 10066 | 120 | DPST | Metal Indoor NEMA 1 |
| 1103B-P | 10069 | 120 | DPST | Polycarbonate Indoor/ Outdoor NEMA 3R |
| 1103B-PC | 10096 | 120 | DPST | Polycarbonate Outdoor w/ clear cover NEMA 3R |
| 1103B-O | 10098 | 120 | DPST | Metal Indoor/Outdoor NEMA 3 |
| 1104B | 10067 | 208-277 | DPST | Metal Indoor NEMA 1 |
| 1104B-P | 10070 | 208-277 | DPST | Polycarbonate Indoor/ Outdoor NEMA 3R |
| 1104B-PC | 10097 | 208-277 | DPST | Polycarbonate Outdoor w/ clear cover NEMA 3R |
| 1104B-O | 10075 | 208-277 | DPST | Metal Indoor/Outdoor NEMA 3 |
| 1104BM-MB | 10076 | 208-277 | DPST | Mechanism and surface mounting bracket |
| 1104BM-IAP | 10074 | 208-277 | DPST | Mechanism and retrofit plate |
| Replacement Trippers | Order #P47 for a pair of ON/OFF trippers | | | |
| Replacement Motor | #101 (120V) & #201 (208-277V) | | | |
| SunSet Conversion | Astronomic dial. Consult factory for correct number for your latitude | | | |

** 1101-7 CSA only

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277 VAC 60 Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14 AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts maximum.

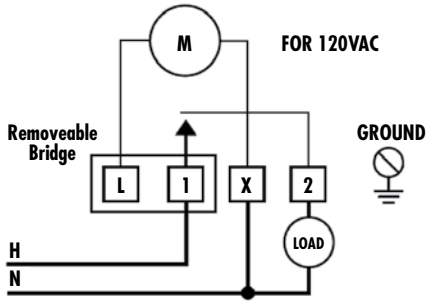
**ENCLOSURE:** Lockable hasp. Type varies by model (See pages 589-593 for dimensions).

**OTHER MOUNTINGS:** Intermatic® Adaptor Plate model #IAP allows any 1100 series to fit into an Intermatic case.

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120 -277 | 40A |
| Resistive | 120 -277 | 40A |
| Tungsten | 120 | 40A |
| Ballast | 120-277 | 20A |
| NEW! LED Driver | 120-277 | 20A |
| Pilot Duty | 120<br>240 | 1000VA<br>2000VA |
| Motor | 120<br>240 | 2HP<br>5HP |
| 277VAC Single Phase | | |

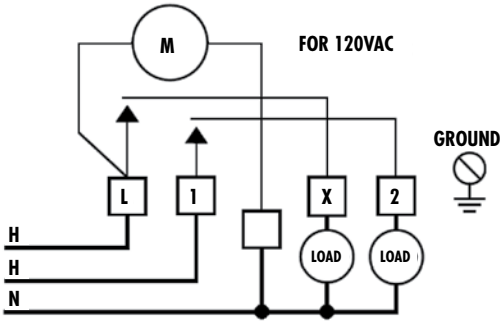
1101-7 is 30 AMP inductive at 347 volts and CSA only

### 1101 & 1102

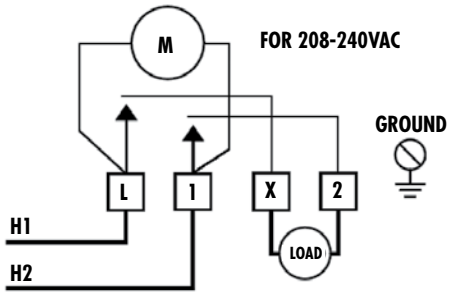


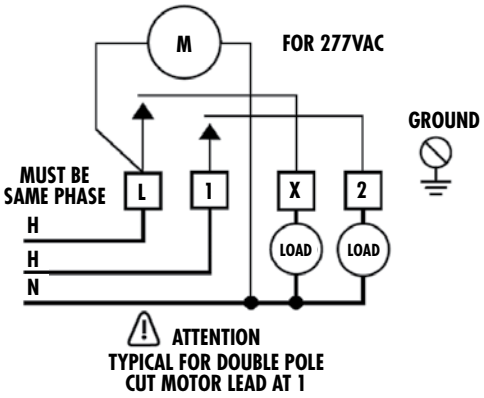

For separate motor terminals remove bridge from terminal L&1.

### 1103




### 1104



# 7000 SERIES
## WITH SKIP-A-DAY FEATURE
## RESERVE POWER OPTIONAL
## 24 HOUR TIME SWITCH




**SKIP-A-DAY**
**24 HOUR!**

## APPLICATIONS

- Lighting
- Heating
- Pumps
- Air conditioning
- Signs

- Automatic ON/OFF control when operation is required at the same time every day, with optional versatility of one to six days omission.

## FEATURES

**SCHEDULING:** Minimum ON setting is 20 minutes with minimum OFF setting at 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.

**SKIP-A-DAY:** Omit operations on any day with a 7-spoke wheel marked with days of week. 3 omitting screws included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 16 hours during power outage.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 7100 | 10001 | 120 | SPST | Metal Indoor NEMA 1 |
| 7102 | 10002 | 208-277 | SPST | Metal Indoor NEMA 1 |
| 7200 | 11001 | 120 | DPST | Metal Indoor NEMA 1 |
| 7202 | 11002 | 208-277 | DPST | Metal Indoor NEMA 1 |
| 7300 | 12001 | 120 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7302 | 12002 | 208-277 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7120 | 13001 | 120 | SPDT | Metal Indoor NEMA 1 |
| 7122 | 13002 | 208-277 | SPDT | Metal Indoor NEMA 1 |
| 7220 | 14001 | 120 | DPDT | Metal Indoor NEMA 1 |
| WITH RESERVE POWER | | (Contact factory for lead time) | | |
| 7200L | 19003 | 120 | DPST | Metal Indoor NEMA 1 |
| 7202L | 19004 | 208-277 | DPST | Metal Indoor NEMA 1 |
| 7300L | 19005 | 120 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7120L | 19007 | 120 | SPDT | Metal Indoor NEMA 1 |
| 7220L | 19009 | 120 | DPDT | Metal Indoor NEMA 1 |
| Replacement Trippers | Order #P49 for a pair of ON/OFF per dial. Additional ON/OFF trippers per dial order #P47. 3 omitting screws #53005 supplied. | | | |
| Replacement Motor | #101 (120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V). For Astronomic Conversion: Order #Z KIT for 7000 Series. | | | |
| SunSet Conversion | Astronomic dial. Consult factory for correct number for your latitude | | | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277 VAC 60 Hz varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14 AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

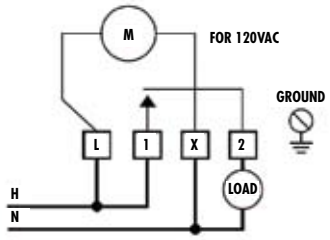
**ENCLOSURE:** Lockable hasp. Type varies by model (See pages 589-593 for dimensions).

**OTHER MOUNTINGS:** Intermatic® Adaptor Plate model #IAP allows any 7100 and 7200 series (except "L" models) to fit into an Intermatic case.

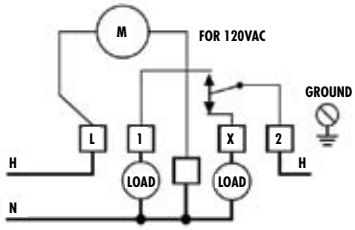
| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120 -277 | 40A |
| Resistive | 120 -277 | 40A |
| Tungsten | 120 | 40A |
| Ballast | 120-277 | 20A |
| Pilot Duty | 120 -277 | 1000VA |
| Motor | 120<br>240 | 2HP<br>5HP |

277 volt Single Phase

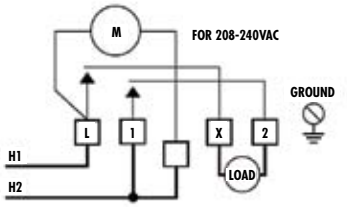
### 7100 & 7102



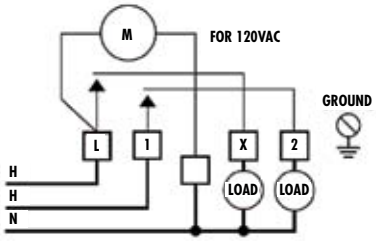

### 7120 & 7122



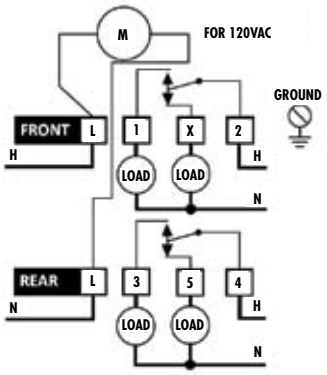

### 7202

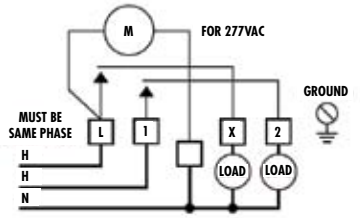



### 7200

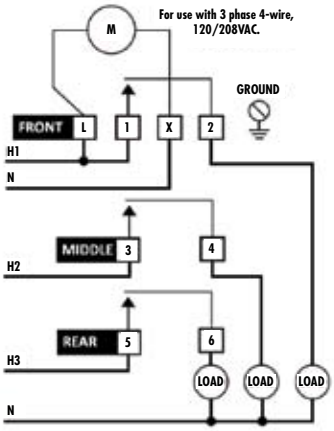



### 7220

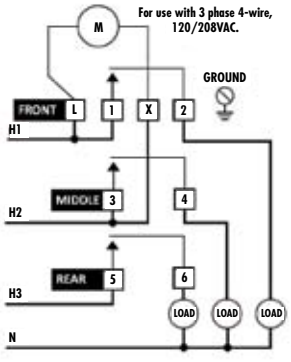


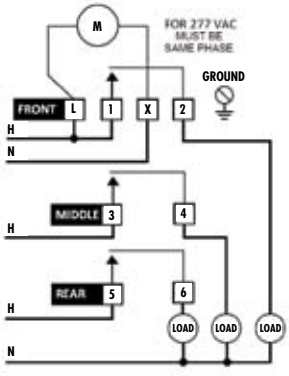




### 7300




### 7302



# 7000Z SERIES

## SunSet WITH SKIP-A-DAY FEATURE
## RESERVE POWER OPTIONAL
## ASTRONOMIC TIME SWITCH



SunSet

**ADJUSTS TO DAILY CHANGES IN SUNSET TIMES!**

## APPLICATIONS

- Parking lots
- Walkways
- Outdoor signage
- Window displays
- Canopy lighting
- Landscape lighting

- Automatic ON at dusk, OFF at dawn. Control of outdoor lighting.

## FEATURES

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times. Available from 18° - 45° northern latitudes.

**SKIP-A-DAY:** Omit operations on any day with a 7 spoke wheel marked with days of the week. 3 omitting screws included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 16 hours during power outage.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 7200Z–* | ** | 120 | DPST | Noryl® Indoor/Outdoor NEMA 3R |
| 7202Z–* | ** | 208-277 | DPST | Noryl® Indoor/Outdoor NEMA 3R |
| 7300Z–* | ** | 120 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7302Z–* | ** | 208-277 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7120Z–* | ** | 120 | SPDT | Noryl® Indoor/Outdoor NEMA 3R |
| WITH RESERVE POWER | | (Contact factory for lead time) | | |
| 7200ZL–* | ** | 120 | DPST | Noryl® Indoor/Outdoor NEMA 3R |
| 7202ZL–* | ** | 208-277 | DPST | Noryl® Indoor/Outdoor NEMA 3R |
| 7300ZL–* | ** | 120 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7302ZL–* | ** | 208-277 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7120ZL–* | ** | 120 | SPDT | Noryl® Indoor/Outdoor NEMA 3R |
| Replacement Motor | | #101 (120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V) | | |

*Add degrees latitude to complete number (18, 30, 34, 38, 40, 42, or 45).
**Consult factory for UPC number.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277 VAC 60 Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14 AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

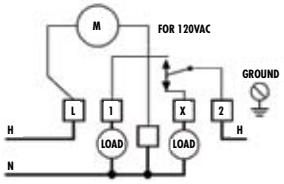
**ENCLOSURE:** Lockable hasp. Type varies by model (See pages 589-593 for dimensions).

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120 -277 | 40A |
| Resistive | 120 -277 | 40A |
| Tungsten | 120 | 40A |
| Ballast | 120-277 | 20A |
| Pilot Duty | 120 -277 | 1000VA |
| Motor | 120<br>240 | 2HP<br>5HP |
| | 277VAC Single Phase | |

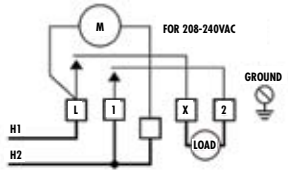
### ASTRONOMIC LATITUDE ZONES

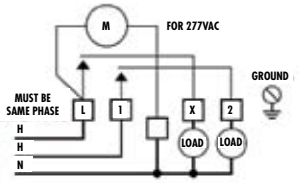



### 7120Z

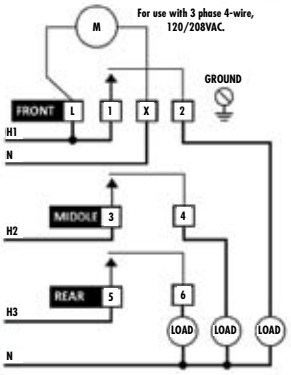



### 7200Z

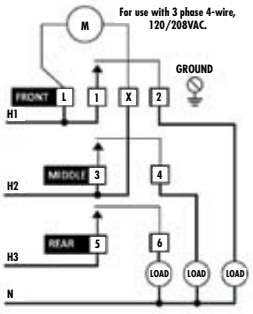


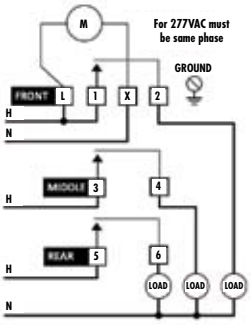




### 7300Z




### 7302Z



# 8000 SERIES

**MANY DAILY ON/OFF OPERATIONS PER DAY**

**DUTY CYCLE**

**24 HOUR TIME SWITCH**




**DUTY CYCLE FOR MULTIPLE ON/OFF OPERATIONS!**

## APPLICATIONS

- Duty cycling
- Ventilating fans
- Pumping
- Irrigation
- Process control
- Laboratory experiments

- For one or multiple daily ON/OFF operations.

## FEATURES

**SCHEDULING:** Minimum ON setting is 15 minutes with minimum OFF setting at 15 minutes. Dial has 96 captive tabs.

**DUTY CYCLE:** Adjustable from ½, 1, 2, 3, 4, 6, 12, and 24 hours.

**SKIP-A-DAY:** Some models include 7 day or 14 day wheel to omit selected days of the week.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 16 hours during power outage.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 8001 | 70001 | 120 | SPDT | Metal Indoor NEMA 1 |
| 8001-N | 70025 | 120 | SPDT | Noryl® Indoor/Outdoor NEMA 3R |
| 8001-NC | 70009 | 120 | SPDT | Noryl® Indoor/Outdoor NEMA 3R w/ clear Lexan® cover |
| 8001-LC/WB | 70010 | 120 | SPDT | Mechanism and bracket |
| 8001-O | 70029 | 120 | SPDT | Metal Indoor/Outdoor NEMA 3 |
| 8004 | 70002 | 208-277 | SPDT | Metal Indoor NEMA 1 |
| 8001U | 70003 | 480/120 Trans. | SPDT | Metal Indoor NEMA 1 |
| 8001U-N | 70014 | 480/120 Trans. | SPDT | Noryl® Indoor/Outdoor NEMA 3R |
| 8001U-O | 70011 | 480/120 Trans. | SPDT | Metal Indoor/Outdoor NEMA 3 |
| 24 HOUR WITH SKIP-A-DAY | | | | |
| 8007 | 70005 | 120 | SPDT | Metal Indoor NEMA 1 |
| 8007-O | 70012 | 120 | SPDT | Metal Indoor/Outdoor NEMA 3 |
| 8008 | 70006 | 208-277 | SPDT | Metal Indoor NEMA 1 |
| 8007U | 70008 | 480/120 Trans. | SPDT | Metal Indoor NEMA 1 |
| 8007U-O | 70028 | 480/120 Trans. | SPDT | Metal Indoor/Outdoor NEMA 3 |
| 24 HOUR WITH SKIP-A-DAY & RESERVE POWER | | | | (Contact factory for lead time) |
| 8007L | 70015 | 120 | SPDT | Metal Indoor NEMA 1 |
| 8008L | 70016 | 208-277 | SPDT | Metal Indoor NEMA 1 |
| Replacement Motor | | #101(120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V) | | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120, 208-277VAC or 480VAC, 60Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

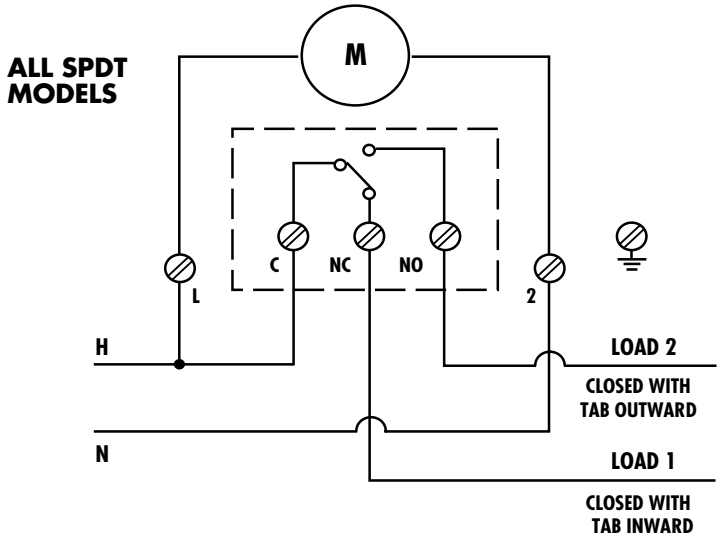
**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

**ENCLOSURE:** Lockable hasp. Type varies by model (See pages 589-593 for dimensions).

**OTHER MOUNTINGS:** Intermatic® Adaptor Plate model #IAP allows 8001 & 8004 to fit into an Intermatic® case.

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| Resistive | 120 or 240<br>480 | 20A<br>20A |
| Motor | 120 | 3/4 HP |



# 8000 SERIES
## MULTIPLE ON/OFF CYCLES
## REPEATING VARIABLE CYCLE
## TIME SWITCH



## APPLICATIONS

- Duty cycling
- Ventilating fans
- Pumping
- Irrigation
- Process control
- Laboratory experiments
- For one or many daily ON/OFF operations.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC, 60Hz.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | TYPE |
|---|---|---|---|---|
| 8601 | 70034 | 120 | SPDT | 60 Minute |
| 8301 | 70033 | 120 | SPDT | 30 Minute |
| 8121 | 70032 | 120 | SPDT | 12 Minute |
| Replacement Motor | For 8601 #102, for 8301 #108, for 8121 #107, and for 8061 #105. | | | |

## FEATURES

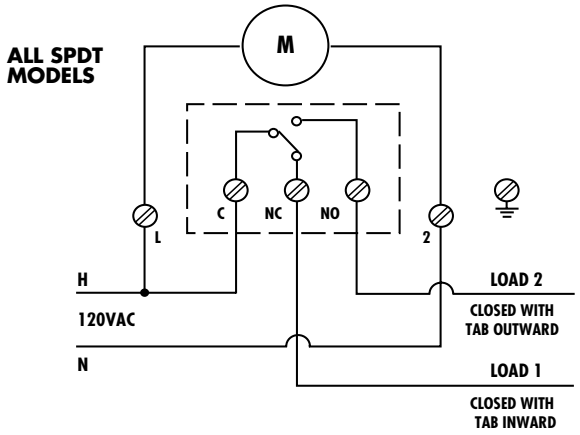
**SCHEDULING:** 60 captive tabs per dial with minimum ON/OFF settings:
– 60 minute dial with 1 minute tabs.
– 30 minute dial with 30 second tabs.
– 12 minute dial with 12 second tabs.

**DUTY CYCLE:** Settings of 1/60 th of dial speed.

**STANDARDS:** Listed UL917.

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| Resistive | 120 or 240<br>480 | 20A<br>20A |
| Motor | 120 | 3/4 HP |

FOR MORE TIMING CHOICES SEE ELECTRONIC EJWT WITH 960 TIMING COMBINATIONS ON PAGES 513-514



# WH2B
## 24 HOUR WATER HEATER TIME SWITCH




Avoid utility peak rates
Turn off when not needed

## APPLICATIONS

Automatic ON/OFF control of electric water heaters. Schedules the water heater to turn ON only when needed, avoiding energy waste when hot water is not needed.

## SPECIFICATIONS

**INPUT VOLTAGE:** 208 – 250V 60 Hz.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| WH2B | 70044 | 208-250 | DPST | Metal Indoor NEMA 1 |

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| Resistive | 208-250 | 40 A 10,000W |
| Replacement Motor | #201 (208-277) | |
| Replacement Trippers | Order #P47 for a pair of ON/OFF trippers | |

FOR A SEVEN-DAY WATER HEATER TIMER SEE ELECTRONIC DTW40 ON PAGES 513-514

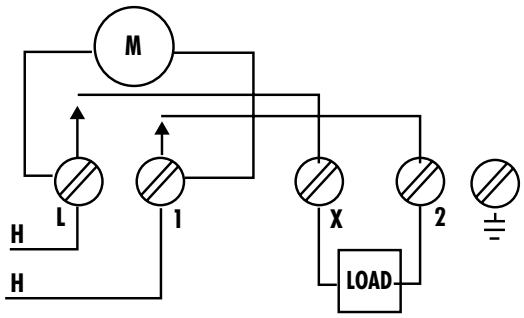
## FEATURES

**SCHEDULING:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs. 3 pairs of trippers supplied.

**EXTERNAL MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF automatic operation then resumes.

**STANDARDS:** Listed UL917.

**TYPICAL FOR 240 VOLT SUPPLY**



# 1800 SERIES

## FOR MECHANICALLY HELD CONTACTORS AND LOW VOLTAGE REMOTE CONTROL MOMENTARY CONTACT TIME SWITCH




## APPLICATIONS

- Mechanically-held contactors
- 3-wire momentary
- lighting systems
- Remote station switching

## FEATURES

**24 HOUR SKIP-A-DAY:** Minimum ON setting is 20 minutes with minimum OFF setting at 75 minutes. Dial accommodates up to 12 pairs of trippers. Omit operations on any day with a 7 spoke wheel marked with days of week.

**7 DAY SCHEDULING:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial will accomodate up to 2 pairs on ON/OFF trippers per day - 7 pairs are supplied.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**OPTIONAL ASTRONOMIC SCHEDULING:** Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times. Order astronomic dial for 1847A

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | TYPE |
|---|---|---|---|---|
| 1847A | 52001 | 120 | SPDT Momentary | 24 Hour |
| 1847AW | 52005 | 120 | SPDT Momentary | 7 Day |
| Replacement Trippers | For 24 hour models order #P49 for a pair ON/OFF per dial. Additional ON/OFF trippers per dial order #P47. 3 omitting screws #53005 supplied. 7 day models order #P69 for 7 pairs of ON/OFF trippers. | | | |
| Replacement Motor | #101(120V) | | | |

SunSet Astronomic dial. Consult factory for correct number for your latitude

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC 60Hz

**TIMING ACCURACY:** Line frequency.

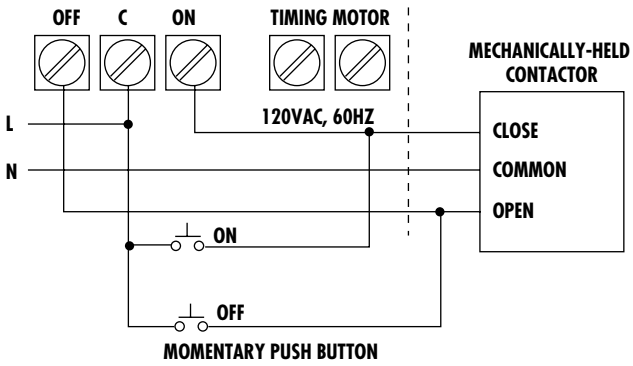
**TERMINAL RANGE:** #12 - #22AWG.

**OPERATING TEMPERATURE:**
-40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

**ENCLOSURE:** NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 24-277 | 10A |
| Pilot Duty | 24-277 | 360VA |




### ASTRONOMIC LATITUDE ZONES



# W SERIES
## DIFFERENT SCHEDULES EACH DAY
## 7 DAY TIME SWITCH



## APPLICATIONS

- Heating
- Air conditioning
- Display lighting
- Ventilating systems
- Lighted signage
- Storefront lighting

## FEATURES

**SCHEDULING:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. Models W400A and W402A offer minimum ON/OFF settings of 3½ hours. 7 day calendar dial accommodates up to 2 pairs of ON/OFF trippers per day – 7 pairs are supplied.

**SKIP-A-DAY:** Omit operations on any day.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF automatic operation then resumes.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 24 hours during power outage.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| W100 | 30001 | 120 | SPST | Metal Indoor NEMA 1 |
| W120 | 33001 | 120 | SPDT | |
| W200 | 31001 | 120 | DPST | |
| W202 | 31011 | 208-277 | DPST | |
| W220 | 34001 | 120 | DPDT | |
| W222 | 34011 | 208-277 | DPDT | |
| W300 | 32001 | 120 | 3PST | |
| W400B* | 35003 | 120 | 4PST | |
| W402B* | 35004 | 208-277 | 4PST | |
| WITH RESERVE POWER | | (Contact factory for lead time) | | |
| W220L | 39009 | 120 | DPDT | Metal Indoor NEMA 1 |
| W222L | 39010 | 208-277 | DPDT | |
| W300L | 39005 | 120 | 3PST | |
| W302L | 39006 | 208-277 | 3PST | |
| W400BL* | 39008 | 120 | 4PST | |
| Replacement Trippers | Order #P69 for 7 pairs of ON/OFF trippers | | | |
| Replacement Motor | #101 (120V) & #201 (208-277V). For "L" models order #36 (120V) and #46 (208-277V). | | | |

*UL Listed only.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277VAC, 60Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

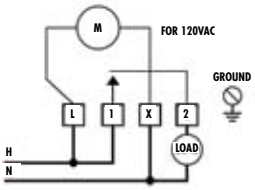
**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp. (See pages 589-593 for dimensions).

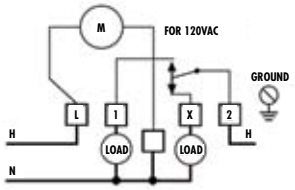
| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120 -277 | 40A |
| Resistive | 120 -277 | 40A |
| Tungsten | 120 | 40A |
| Ballast | 120-277 | 20A |
| Pilot Duty | 120 -277 | 1000VA |
| Motor | 120<br>240 | 2HP<br>5HP |

277VAC Single Phase

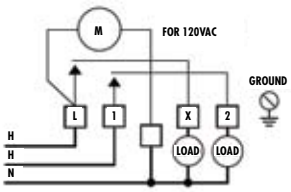
### W100



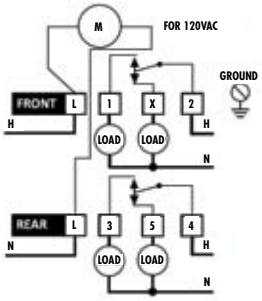

### W120



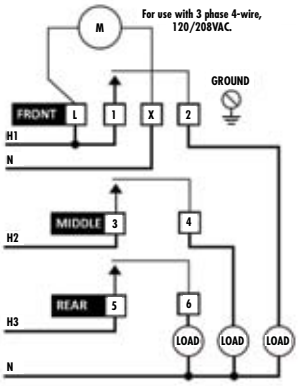

### W200



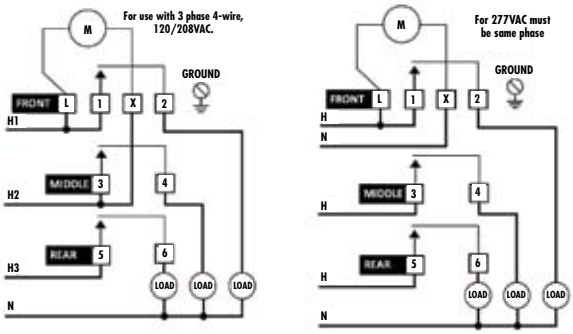

### W220



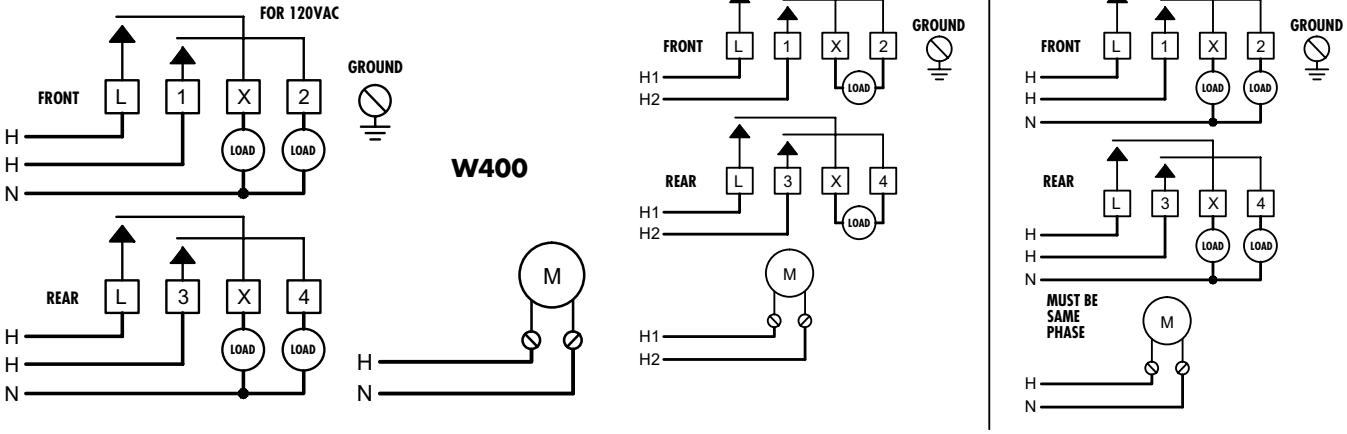

### W300




### W302




### W402



# T900 SERIES

**PHOTOELECTRIC & 7 DAY CONTROL COMBO**
**DIFFERENT SCHEDULES EACH DAY**
**RESERVE POWER STANDARD**
**2 & 3 CIRCUIT CONTROL CENTERS**





Optional "E" cover



Model 2101
supplied with unit.

## APPLICATIONS

- Parking lot lighting
- HVAC
- Display lighting
- Security lighting
- Lighted signage
- Storefront lighting

## FEATURES

**SCHEDULING:**

**CIRCUIT 1:** ON automatically at dusk, OFF at individual preset times each day, including skipping days when desired. Unit can be set to turn ON before dawn for early morning lighting.

**CIRCUIT 2:** ON at dusk, OFF at dawn automatically, daily.

**CIRCUIT 3:** Individual daily ON and OFF settings at desired times, including skipping any desired day or days Minimum ON is setting 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial will accommodate up to 2 pairs of ON-OFF trippers per day – 7 pairs are supplied.

**SKIP-A-DAY:** Omit operations on any day.

**MANUAL BY-PASS SWITCHES:** Single pole, 20 Amps – one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent – will not disturb automatic settings.

**RESERVE POWER:** Standard feature on all models keep dial on time up to 24 hours during power outage.

**OPTIONAL ENCLOSURES:** Contact factory for available options and lead time.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| T920L | 41033 | 120 | 2 SPDT | Metal Indoor NEMA 1 |
| T930L | 41055 | 120 | 3 SPDT | Metal Indoor NEMA 1 |
| Replacement Trippers | #P69 for 7 pairs of ON/OFF trippers. | | | |
| Replacement Motor | #36 (120V) | | | |
| Replacement Bypass Switch | #66061 | | | |

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120/277 | 20A |
| Motor | 120<br>240 | 1HP<br>2HP |

**NOTE:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120, 60 Hz

**TIMING ACCURACY:** Line frequency.

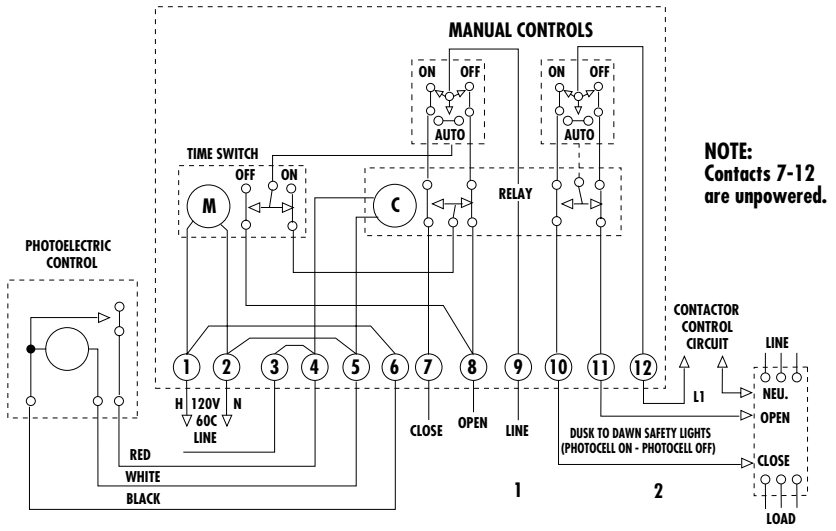
**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:**
-40˚ to 165˚F (-40˚ to +74˚C).

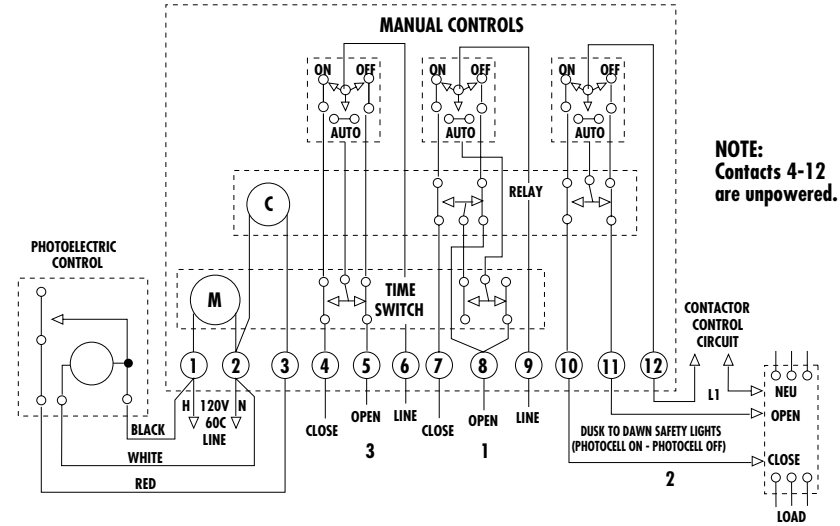
**POWER CONSUMPTION:**
5 watts maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp. (See pages 589-593 for dimensions).

## T920L
### ONLY CIRCUITS 1 AND 2 ARE INCLUDED IN T920L




## T930L
### ALL 3 CIRCUITS ARE INCLUDED IN T930L




**NOTE 1:** All models designed to control mechanically-held and magnetic contactors, when wired in accordance with manufacturers recommendations. Contacts are unpowered control circuits rated for 24-277V contactor coils. See notes on wiring schematics.

**NOTE 2:** For momentary Contact of contactor coils, use TORK Model SMC-3D, in our Digital Controls Catalog.

# TW SERIES

**DIFFERENT SCHEDULES EACH DAY**
**MANUAL BYPASS SWITCHES**
**RESERVE POWER STANDARD**
***7 DAY TIME SWITCH***





Optional "E" cover

## APPLICATIONS

- Heating
- Air conditioning
- Display lighting
- Ventilating systems
- Lighted signage
- Storefront lighting

## FEATURES

**SCHEDULING:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial accommodates up to 2 pairs of ON-OFF trippers per day – 7 pairs are supplied.

**SKIP-A-DAY:** Omit operations on any day.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**MANUAL BY-PASS SWITCHES:** Single pole, 20 Amps – one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent – will not disturb automatic settings.

**RESERVE POWER:** Standard feature on all models keep dial on time up to 24 hours during power outage.

**OPTIONAL ENCLOSURES:** Contact factory for available options and lead time.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| RESERVE POWER: (Contact factory for lead time) | | | | |
| TW-220L | 39013 | 120 | DPDT | Metal Indoor NEMA 1 |
| TW-300L | 39015 | 120 | 3PST | Metal Indoor NEMA 1 |
| Replacement Trippers | Order #P69 for 7 pairs of ON/OFF trippers. | | | |
| Replacement Motor | #36 (120V) | | | |
| Replacement Bypass Switch | #66061 | | | |

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120/277 | 20A |
| Motor | 120<br>240 | 1HP<br>2HP |

**NOTE:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

## SPECIFICATIONS

**INPUT VOLTAGE:**
120VAC, 60Hz

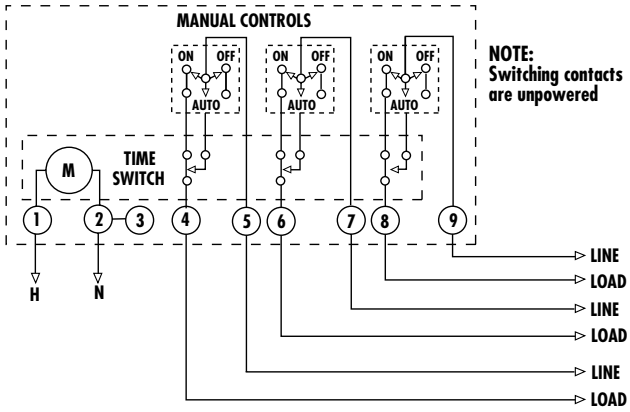
**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:**
-40˚ to 165˚F (-40˚ to +74˚C).

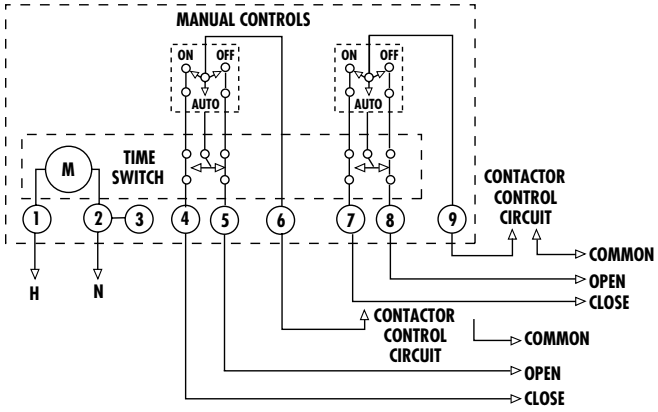
**POWER CONSUMPTION:**
5 watts maximum.

**ENCLOSURE**: Indoor NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).




### TW300L

When single line source is used, jumper terminals 1-5-7-9 and connect all commons to terminals 2 and 3.




### TW220L

Wiring shown is for mechanically-held contactors. Use CLOSE terminal only for magnetically-held contactors and to control direct loads not exceeding 2000 watts.

# TZ SERIES SunSet

## MANUAL BYPASS SWITCHES
## RESERVE POWER STANDARD
## ASTRONOMIC TIME SWITCH




## APPLICATIONS

- Schools
- Industrial yards
- Shop windows
- Parking lots
- Highway signs
- Bridges

## FEATURES

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times. Available from 18° - 45° northern latitudes.

**SKIP-A-DAY:** Omit operations on any day with a 7 spoke wheel marked with days of the week. 3 omitting screws included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**MANUAL BYPASS SWITCHES:** Single pole, 20 Amps - one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent, will not disturb automatic settings.

**RESERVE POWER:** Standard feature on all models keep dial on time up to 24 hours during power outage.

**OPTIONAL ENCLOSURES:** Contact factory for available options and lead time.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| RESERVE POWER: (Contact factory for lead time) | | | | |
| TZ220L* | ** | 120 | DPDT | Metal Indoor NEMA 1 |
| TZ300L* | ** | 120 | 3PST | Metal Indoor NEMA 1 |
| Replacement Motor | For "L" models #36 (120V) | | | |
| Replacement Bypass Switch | #66061 | | | |

*Add degrees latitude to complete number (18, 30, 34, 38, 40, 42, or 45).
**Consult factory for UPC number.

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120/277 | 20A |
| Motor | 120<br>240 | 1HP<br>2HP |

**NOTE:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

## SPECIFICATIONS

**INPUT VOLTAGE:**
120VAC, 60Hz

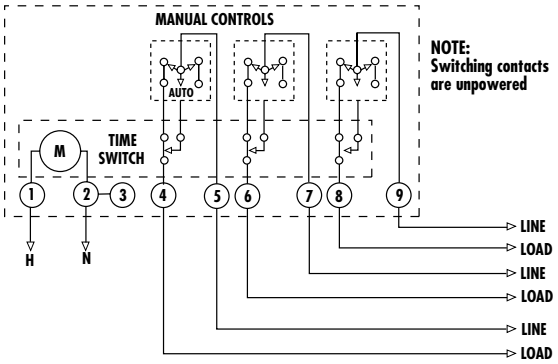
**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:**
-40˚ to 165˚F (-40˚ to +74˚C).

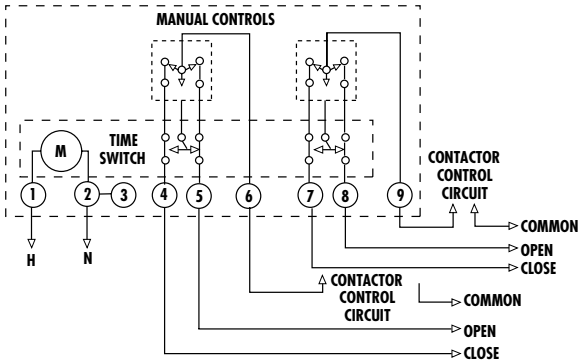
**POWER CONSUMPTION:**
5 watts maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).




### TW300L

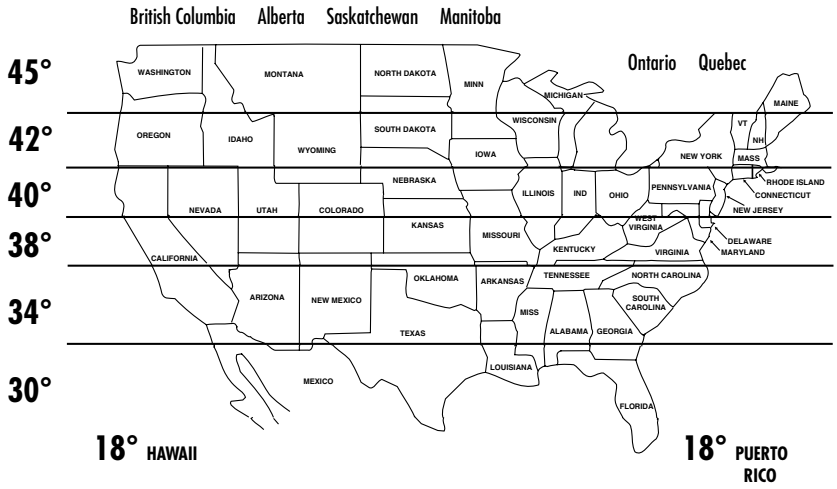
When single line source is used, jumper terminals 1-5-7-9 and connect all commons to terminals 2 and 3.




### TW220L

Wiring shown is for mechanically-held contactors. Use CLOSE terminal only for magnetically-held contactors and to control direct loads not exceeding 2000 watts.

## ASTRONOMIC LATITUDE ZONES




LAT
SEASON
HOUR
MONTH
MIN
DATE




# TORK® DIGITAL TIME SWITCHES

# QUICK REFERENCE GUIDE

| | DTU40 DTWH40 | EH20C | SA300 | E-PB | E | EW | EWZ | DG | DGM | DW | DWZ | DTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Page No. | 479 | 481 | 483 | 485 | 485 | 487 | 489 | 491 | 491 | 493 | 493 | 495 |
| Number of Channels | 1 | 1 | 1 | 1 | 1 or 2 | 1 or 2 | 1 or 2 | 1 or 2 | 1 | 2 | 1 | 1, 2 or 4 |
| ON/OFF Set Points | 7 pair | 14 | 1 pair | 20 | 20 | 20 | 20 | 56 | 56 | 99 | 99 | 99 |
| 365 Day/7 Day Scheduling | 7 day | 7 day | 7 day | 24 hour | 24 hour | 7 day | 7 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day |
| Automatic Daylight Savings Adjustment | Manual | Yes | Manual | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Leap Year | | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Individual Holiday Schedules | | | | | | | | | | 24 | 24 | 24 |
| Block Holiday | | Yes | | | | | | 9 | 9 | | | |
| Season Scheduling | | | | | | | | | | | | 4 |
| SunSet (Astronomic) | | | ZipSet | | | | Yes | | | | Yes | |
| Photosensor Input | | | | | | | | | | | | |
| Remote Override Input | | | | | | | | | | | | |
| Signal/Pulse Duration | | | | | | | | | | | | Yes |
| Momentary for Contactors | | | | | Option | Option | Option | | Yes | | | |
| Duty Cycle | | | | | | | | | | | | |
| 31 Day Cycle | | | | | | | | | | | | |
| Manual Override | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Clock Format | AM/PM | AM/PM | AM/PM | AM/PM | AM/PM | AM/PM | AM/PM | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 |
| Power Outage Backup | Rechargeable Battery | 4 day Super Capacitor | Battery | 4 day Super Capacitor | 4 day Super Capacitor | 4 day Super Capacitor | 4 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor |
| Schedule Retention without power | Battery | Permanent | Battery | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent |
| Staggered Start | | | | | Yes | Yes | Yes | Yes | Yes | Yes | | Yes |
| Memory Module | | | | | | | | | | | | |
| Computer Programming Software | | | | | | | | | | | | |
| Output Contacts: Amps Resistive or General Purpose | 40A | 40A | 40A | 30A | 40A | 40A | 40A | 20A | 20A | 30A | 30A | 30A |
| Contact Type: Dry Unpowered | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Voltage Input AC | 120/208-240/277 | 120-277 | 120 or 120/277 | 120 | 120-277 | 120-277 | 120-277 | 120-277 | 120-277 | 120/208-240/277 | 120/208-240/277 | 120/208-240/277 |
| Other Voltage Inputs Available | | | | | | | | | | | | |

| | | | LIGHTING CONTROLS | | | | | CYCLE - SIGNAL TIMER | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | DZS | DZM | ELC74/78/712 | DGU | DGUM | DGLC | DLC400 | DG | DGS | DIN |
| Page No. | 497 | 499 | 505 | 503 | 503 | 503 | 507 | 511 | 511 | 517 |
| Number of Channels | 1, 2, or 4 | 2 | 4, 8, or 12 | 1 | 1 | 1 or 2 | 4 | 1 or 2 | 1 | 1 or 2 |
| ON/OFF Set Points | 99 | 99 | 128 | 56 | 56 | 56 | 99 | 56 | 56 | 8 pair<br>3 pair/ch |
| 365 Day/7 Day Scheduling | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 24 Hour | 7 Day | 7 Day |
| Automatic Daylight Savings Adjustment | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Leap Year | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Individual Holiday Schedules | 24 | 24 | 26 | | | | 24 | | | |
| Block Holiday | | | 10 | 9 | 9 | 9 | | | | |
| Season Scheduling | 4 | 4 | | | | | 4 | | | |
| SunSet (Astronomic) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | | | |
| Photosensor Input | | | Yes | Yes | Yes | Yes | Yes | | | |
| Remote Override Input | | | Yes | Yes | Yes | Yes | Yes | | | |
| Signal/Pulse Duration | Yes | | Yes | | | | | Yes | Yes | |
| Momentary for Contactors | | Yes | Yes | | Yes | | | | | |
| Duty Cycle | | | Yes | | | | | Yes | Yes | |
| 31 Day Cycle | | | | | | | | Yes | | |
| Manual Override | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Clock Format | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | AM/PM |
| Power Outage Backup | 7 day Super Capacitor | 7 day Super Capacitor | 2 day Capacitor<br>1 year battery | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 6 month battery | 7 day Super Capacitor | 7 day Super Capacitor | 8 year battery |
| Schedule Retention without power | Permanent | Permanent | Battery | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent | Battery |
| Staggered Start | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Memory Module | Yes | Yes | | | | | Yes | | | |
| Computer Programming Software | Yes | Yes | | | | | Yes | | | |
| Output Contacts: Amps Resistive or General Purpose | 30A/20A | 30A | 20A | 20A | 20A | 20A | 30A | 20A | 20A | 16A |
| Contact Type: Dry Unpowered | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Voltage Input AC | 120/208-240/277 | 120/208-240/277 | 24/120/208<br>240/ 277 | 120-277 | 120-277 | 120-277 | 120/208-240/277 | 120-277 | 120-277 | 120 |
| Other Voltage Inputs Available | 12VDC<br>24VAC | | 24VAC All Models | | | | | 12VDC<br>24VAC | 24VAC | |

# DT SERIES
## AUTOMATIC VOLTAGE DETECTION 7 DAY TIME SWITCH AND WATER HEATER TIMER

**MORE WIRING SPACE!**



DTU40

DTWH40

responsible energy

Avoid utility peak rates
Turn off when not needed

## APPLICATIONS

c UL us

**DTU40**
- Pumps, motors, fans
- Signs and lighting
- Water heaters
- Heating and air conditioning

**DTWH40**
- Water Heaters
- This timer turns OFF when rates are high and turns OFF when no one is home.

## FEATURES

**SCHEDULING:** 7 ON & OFF pairs of set points for individual programs on each day of the week. Minimum setting is 1 minute.

**DAYLIGHT SAVING:** Manual button push for one hour adjustment.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**EXTERNAL MANUAL OVERRIDE:** DTWH40 only on clear door. Override without opening case.

**RANDOM MODE:** Varies ON and OFF times to create "lived-in" look when away.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Battery retains time and schedule.

**STANDARDS:** Listed UL60370 (formerly UL917)

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DTU40 | 24004 | 120/208-240/277 | 1 | DPDT |
| DTWH40 | 24005 | 120/240 | 1 | DPDT |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| Resistive | 120-277 | 40A | 30A |
| Inductive | 120-277 | 30A | 15A |
| Ballast | 120<br>277 | 30A<br>20A | 10A<br>10A |
| Tungsten | 120 | 15A | |
| Motor | 120<br>240 | 1HP/30FLA/90LRA<br>2HP/20FLA/60LRA | 1/4HP/12FLA/30LRA<br>1/2HP/12FLA/33LRA |
| Pilot duty | 120<br>240 | 720VA<br>720VA | 290VA<br>260VA |
| Resistive | 28VDC | 20A | |
| Max above 104°F | 120-277 | 30A | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120/208-240/277 VAC, 50/60 Hz (auto detection). DTWH40 is 120/240VAC 50/60Hz (auto detection).

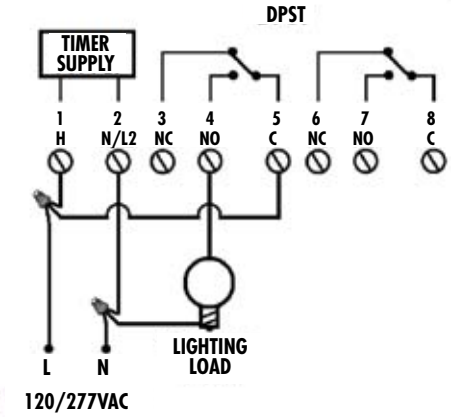
**TERMINAL RANGE:** #8 - #18AWG.

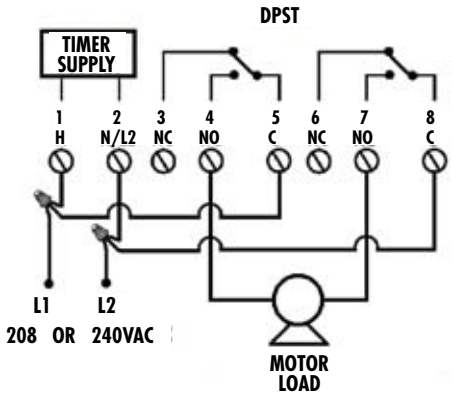
**OPERATING TEMPERATURE:** -31 °F to 116 °F (-35 °C to +47 °C).

**POWER CONSUMPTION:** 6VA Max.

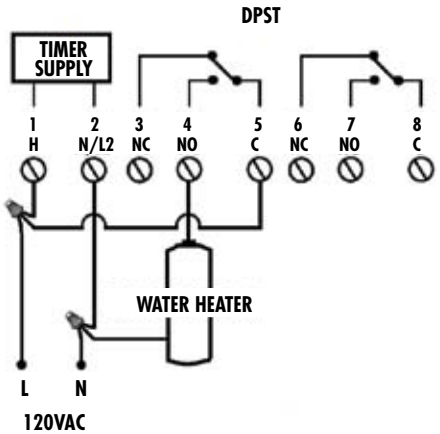
**ENCLOSURE:** DTU40 polycarbonate Indoor/ Outdoor NEMA 3R. DTWH40 polycarbonate indoor NEMA 1 enclosure with clear cover. Both with lockable hasp (see pages 589-593 for enclosure dimensions).

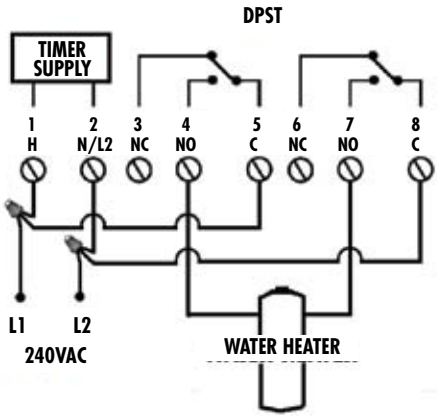
### DTU40




### DTWH40



# EH20C
## AUTOMATIC VOLTAGE DETECTION WATER HEATER TIMER WITH SUMMER LOAD SHED




responsible energy

Avoid utility peak rates
Turn off when not needed

**PRE-PROGRAMMED FOR EASY SET-UP**

## APPLICATIONS

c UL us

- Electric water heater timers for residential or commercial.

## FEATURES

**PRE-PROGRAMMED:** Unit preset for daily OFF time from 12:00am to 4:00am daily.

**SUMMER LOAD SHED:** Additional OFF time from 3:00pm to 7:00pm during Summer time (6/1 to 9/30) annually to avoid peak usage.

**SCHEDULING:** Additional 14 ON or OFF set points for individual programs for each day of the week. Minimum setting 1 minute.

**HOLIDAY SCHEDULE:** Extend to the load shed date throughout the year or preset extra load shed schedules while on vacation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF. Override during pre-programed times limited to 60 minutes per day.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Lithium battery. Non-rechargeable with 8 year expected life.

**STANDARDS:** Listed UL917

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50-60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| EH20C | 82314 | 120-277 | DPST |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120-277 | 40A |
| Inductive | 120-277 | 40A |
| Pilot duty | 120-277 | 720VA |
| Motor | 120<br>208<br>240-277 | 1 HP<br>1 1/2 HP<br>2 HP |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

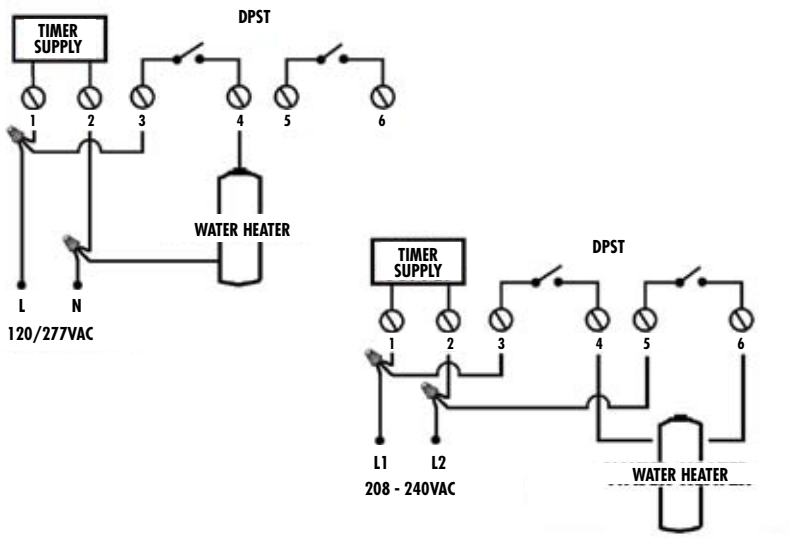
**INPUT VOLTAGE:** 120-277VAC, 50/60Hz
(automatic detection).

**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:** Indoor/Outdoor NEMA 3R
Polycarbonate with locking hasp.
(see pages 589-593 for enclosure dimensions).



# SA300 SERIES
## Zip-Set™
## DIGITAL TIME SWITCH




responsible energy

**AREA CODE ENTRY FOR FAST SET-UP**

## APPLICATIONS

- Outdoor lighting
- Electric motors
- Indoor lighting or signs

## FEATURES

**ZIP-SET:** Fast and easy. Just enter area code and timer adjusts to your time with preset program of Sunset ON and time off program.

**SCHEDULING:** One On/Off set point pair is active at a time. Only one schedule may be active at a time: Schedule 1, Schedule 2, a combination of 1 & 2, or ZipSet™. Day combinations for 7-5-2 speed programming.

**MANUAL DAYLIGHT SAVING:** Simple switch adjustment.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**RANDOM FEATURE:** Varies on time +/-90 minutes each day for lived in look.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Replaceable batteries

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| SA300 | 16546 | 120 | SPST |
| SA306 | 16549 | 120 | DPST |
| SA400 | 16552 | 120/277 | SPST |

| TYPE | VOLTAGE (VAC) 60Hz | RATING |
|---|---|---|
| Resistive | 120* | 40A |
| Inductive | 120* | 40A |
| Tungsten | 120* | 40A |
| Incandescent | 120* | 40A |
| Motor | 120 | 1 1/2HP |
| *SA400 | 120/277 | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC, 60Hz
SA400 120/277VAC, 60Hz

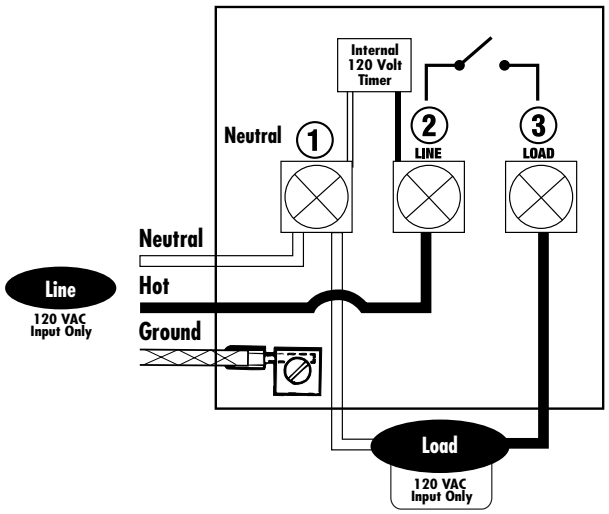
**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**
32 °F to +100 °F (0 °C to +37 °C).

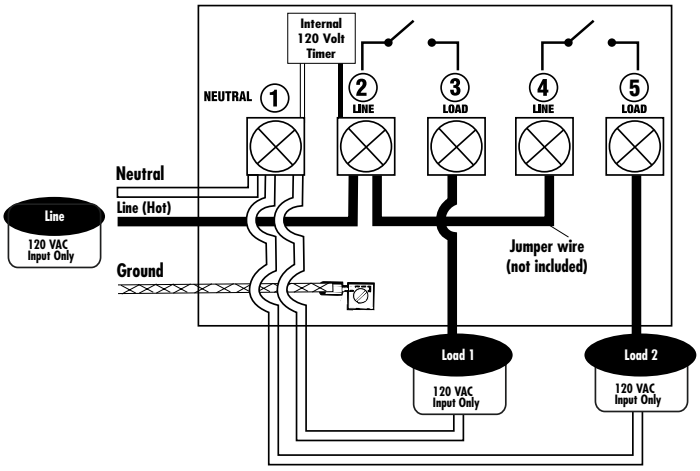
**POWER CONSUMPTION:** 5VA Max.

**ENCLOSURE:** Indoor Metal with locking hasp.
SA400 Outdoor Metal with locking hasp.
(see pages 589-593 for enclosure dimensions).

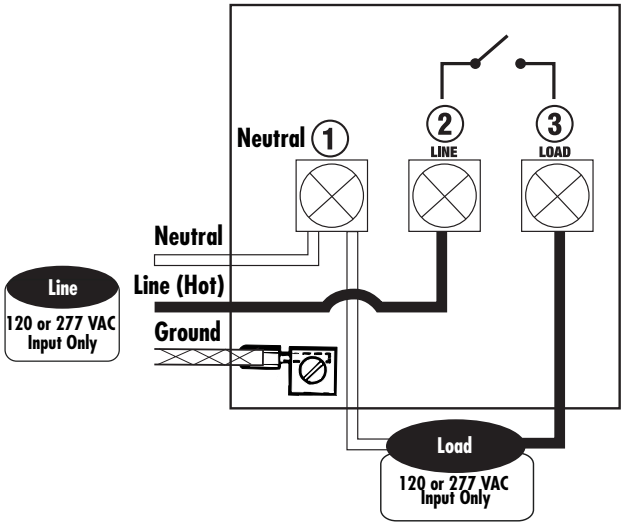
### SA300




### SA306




### SA400



# E & E-PB SERIES

## MULTIPURPOSE CONTROLS
## 1 OR 2 CHANNEL
## 24 HOUR TIME SWITCH



**BACKUP *WITHOUT* BATTERY, ECO FRIENDLY!**

## APPLICATIONS

- Signs
- Air conditioning
- Lighting
- Sump pumps
- Ventilating fans

## FEATURES

**SCHEDULING:** 20 ON/OFF set points repeat each day. Minimum setting 1 minute.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.

**MOMENTARY OPTION:** For mechanically held contractors: Model E201B only. Configure with simple jumper change for single-channel momentary operation.

**STANDARDS:** Listed UL917

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|---|---|---|---|---|
| E101B | 82401 | 120-277 | 1 | SPST |
| E103B | 82411 | 120-277 | 1 | DPST |
| E120B | 82406 | 120-277 | 1 | SPDT |
| E201B | 82466 | 120-277 | 2 | SPST |
| E101PB | 82461 | 120 | 1 | SPST |

| TYPE | E101B, E103B, E201B VOLTAGE (VAC) | E101B, E103B, E201B RATING NO | E120B RATING NO | E120B RATING NC | E101PB VOLTAGE (VAC) | E101PB RATING NO |
|---|---|---|---|---|---|---|
| General Purpose | 120-277 | 40A | 30A | 30A | 120/240<br>277 | 30A<br>12A |
| Inductive | 120-277 | 40A | 30A | 30A | 120/240<br>277 | 30A<br>12A |
| Ballast | 120<br>208-277 | 30A<br>20A | 30A<br>20A | 10A<br>10A | 120<br>277 | 20A<br>6A |
| Tungsten | 120 | 15A | 15A | 2A | 120 | 5A |
| Pilot Duty | 120-277 | 720VA | 720VA | 720VA | 120-240<br>277 | 470VA<br>690VA |
| Motor | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 1HP<br>1 1/2HP<br>2HP | 1HP<br>1 1/2HP<br>2HP | 120<br>240<br>- | 1HP<br>2HP<br>- |
| Resistive | 28VDC | 30A | 30A | 30A | 28VDC | 20A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**
**E SERIES**
120 - 277VAC, 50/60Hz (automatic detection).
**E-PB**
120VAC, 50/60Hz.

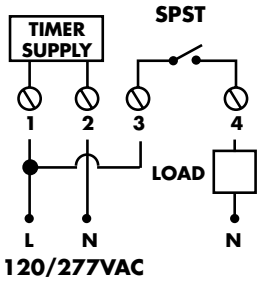
**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

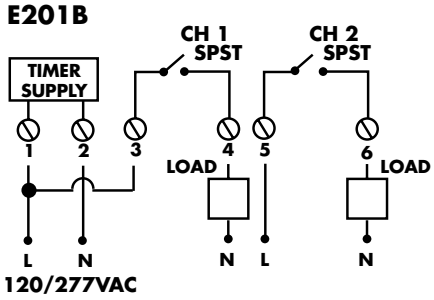
**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:** Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp (see pages 589-593 for enclosure dimensions).

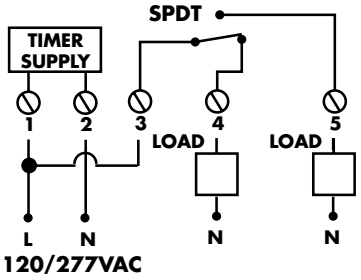
**E101B**

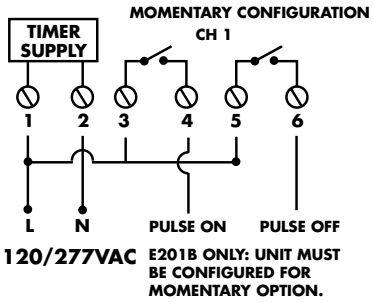



**E201B**

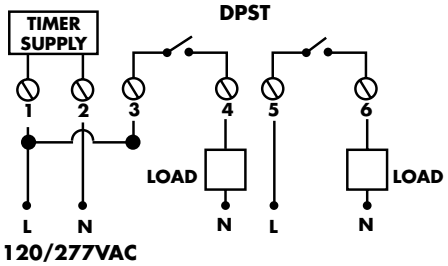


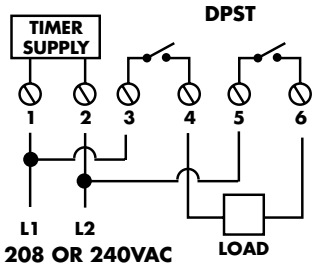

**E120B**



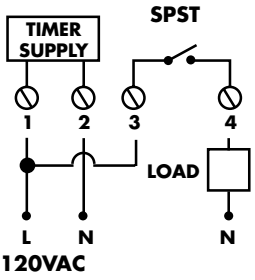




**E103B**




**E101PB**



# EW SERIES
## MULTIPURPOSE CONTROL
## 1 OR 2 CHANNEL
## 7 DAY TIME SWITCH



AUTOMATIC DST SAVES TIME CHANGES TWICE A YEAR!

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

c UL us

## APPLICATIONS

- Outdoor signs
- Lighting security
- Heating and air conditioning

## FEATURES

**SCHEDULING:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.

**DAYLIGHT SAVING:** Automatic (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.

**MOMENTARY OPTION:** For mechanically held contractors: Model EW201B only. Configure with simple jumper change for single-channel momentary operation.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|---|---|---|---|---|
| EW101B | 82431 | 120-277 | 1 | SPST |
| EW103B | 82441 | 120-277 | 1 | DPST |
| EW120B | 82436 | 120-277 | 1 | SPDT |
| EW201B | 82467 | 120-277 | 2 | SPST |
| EW101B-Y | 82249 | 120-277 | 1 | SPST |
| EW103B-C | 82253 | 120-277 | 1 | DPST |
| EW103B-Y | 82255 | 120-277 | 1 | DPST |
| EW120B-C | 82437 | 120-277 | 1 | SPDT |
| EW120B-Y | 82261 | 120-277 | 1 | SPDT |
| EW201B-Y | 82299 | 120-277 | 2 | SPST |

| TYPE | EW101B, EW103B, EW201B | | EW120B | | |
|---|---|---|---|---|---|
| | VOLTAGE (VAC) | RATING NO | VOLTAGE (VAC) | RATING NO | RATING NC |
| General Purpose | 120-277 | 40A | 120-277 | 30A | 30A |
| Inductive | 120-277 | 40A | 120-277 | 30A | 30A |
| Ballast | 120<br>208-277 | 30A<br>20A | 120<br>208-277 | 30A<br>20A | 10A<br>10A |
| Tungsten | 120 | 15A | 120 | 15A | 2A |
| Pilot Duty | 120-277 | 720VA | 120-277 | 720VA | 720VA |
| Motor | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 1HP<br>1 1/2HP<br>2HP |
| Resistive | 28VDC | 30A | 28VDC | 30A | 30A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**
120 - 277VAC, 50/60Hz (automatic detection).

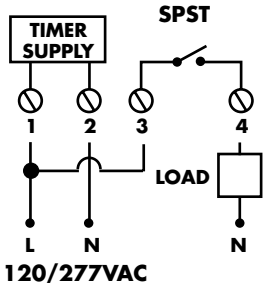
**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

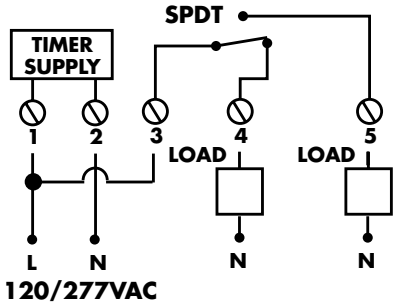
**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:**
- Polycarbonate Indoor/Outdoor NEMA 3R.
- Suffix -C plastic clear cover Indoor/Outdoor NEMA 3R.
- Suffix -Y metal Indoor enclosure NEMA 1.
- All with lockable hasp (see pages 589-593 for enclosure dimensions).

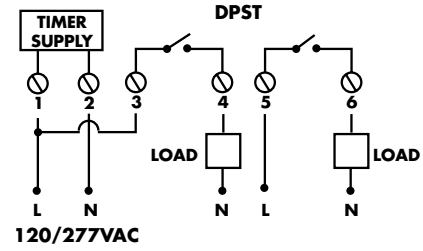
**EW101B**

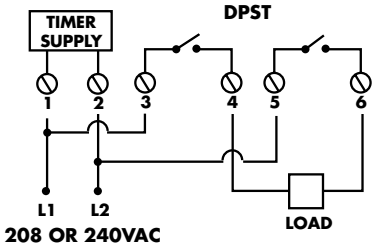



**EW120B**

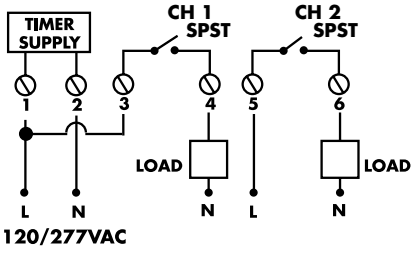


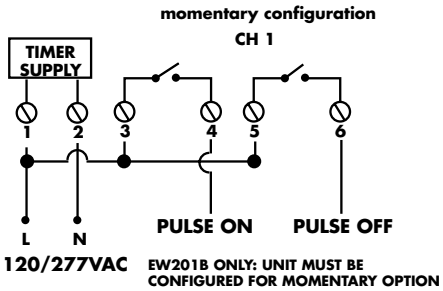

**EW103B**




**EW201B**



# EWZ SERIES

## SunSet 1 OR 2 CHANNEL 7 DAY TIME SWITCH



SunSet

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

**PREFERRED FOR OUTDOOR LIGHTING!**

## APPLICATIONS

c UL us

- Outdoor signs
- Lighting security
- Heating and air conditioning

## FEATURES

**SCHEDULING:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.

**DAYLIGHT SAVING:** Automatic (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.

**MOMENTARY OPTION:** For mechanically heldcontactors: Model EWZ201 only. Configure with simple jumper change for single-channel momentary operation.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|---|---|---|---|---|
| EWZ101 | 82470 | 120-277 | 1 | SPST |
| EWZ103 | 82473 | 120-277 | 1 | DPST |
| EWZ120 | 82471 | 120-277 | 1 | SPDT |
| EWZ201 | 82472 | 120-277 | 2 | SPST |
| EWZ101-MB | 82263 | 120-277 | 1 | SPST |
| EWZ103-MB | 82269 | 120-277 | 1 | DPST |
| EWZ120-MB | 82275 | 120-277 | 1 | SPDT |
| EWZ201-MB | 82281 | 120-277 | 2 | SPST |

| TYPE | EWZ101,EWZ103, EWZ201 | | EWZ120 | | |
|---|---|---|---|---|---|
| | VOLTAGE (VAC) | RATING NO | VOLTAGE (VAC) | RATING NO | RATING NC |
| General Purpose | 120-277 | 40A | 120-277 | 30A | 30A |
| Inductive | 120-277 | 40A | 120-277 | 30A | 30A |
| Ballast | 120<br>208-277 | 30A<br>20A | 120<br>208-277 | 30A<br>20A | 10A<br>10A |
| Tungsten | 120 | 15A | 120 | 15A | 2A |
| Pilot Duty | 120-277 | 720VA | 120-277 | 720VA | 720VA |
| Motor | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 1HP<br>1 1/2HP<br>2HP |
| Resistive | 28VDC | 30A | 28VDC | 30A | 30A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**
120 - 277VAC, 50/60Hz (automatic detection).

**TERMINAL RANGE:** #8 - #16AWG.

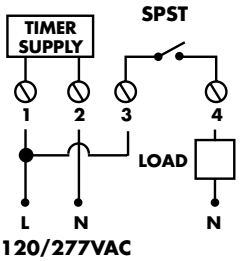
**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 6VA Max.

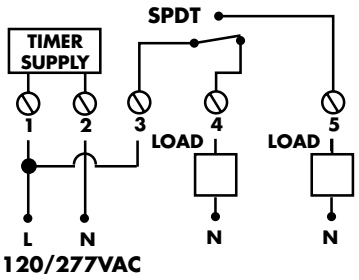
**ENCLOSURE:** Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp (see pages 589-593 for enclosure dimensions).
Suffix -MB without enclosure and includes mounting bracket.

**OPTIONS:** Suffix -Q Quartz crystal timing. Maintains accurate timing where 50 or 60 Hz is not consistent such as on-site generator produced power. Consult factory for minimum order size.

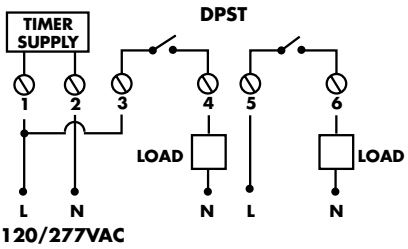
**EWZ101**

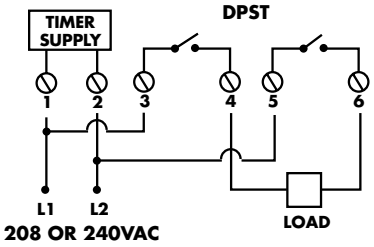



**EWZ120**

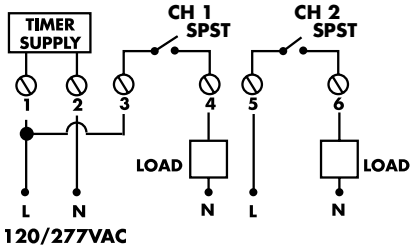


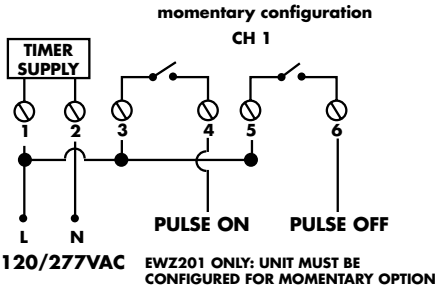

**EWZ103**




**EWZ201**



# DG100 SERIES
## MULTIPURPOSE CONTROLS
## 1 OR 2 CHANNEL
## 365/7 DAY
## TIME SWITCH



CALIFORNIA Title 24

ASHRAE 90.1

**HOLIDAY PROGRAMMING FOR MORE SAVINGS!**

## APPLICATIONS

- Indoor/Outdoor lighting
- HVAC equipment
- School warning and other
- Traffic lights
- Water heaters in offices, churches and factories

## FEATURES

**SCHEDULING:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.

**MOMENTARY CONTACT:** DGM100A has 2 second contact closures for ON & OFF control of mechanically held contactors or latching relays.

**BLOCK HOLIDAY:** 9 holiday blocks can be set for individual days or for duration of any number of days.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM or 24 Hour format.

**POWER OUTAGE BACKUP:** Permanent schedule retention is provided. Supercapacitor provides 7 days of real time back up.

**STANDARDS:** Listed UL916.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| DG100A | 82201 | 120-277 | 1 | DPDT |
| DG200A | 82209 | 120-277 | 2 | SPDT |
| DGM100A | 82210 | 120-277 | 1 | SPDT Momentary |
| DG100A-Y | 82221 | 120-277 | 1 | DPDT |
| DGM100A-Y | 82222 | 120-277 | 1 | SPDT Momentary |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| Resistive | 24-277 | 20A | 10A |
| Ballast | 120-277 | 20A | 10A |
| Tungsten | 120 | 15A | - |
| Pilot Duty | 120<br>240 | 720VA | 290VA<br>360VA |
| Motor | 120<br>240 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Resistive | 28VDC | 20A | 10A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**
120 - 277VAC, 50/60Hz (automatic detection).

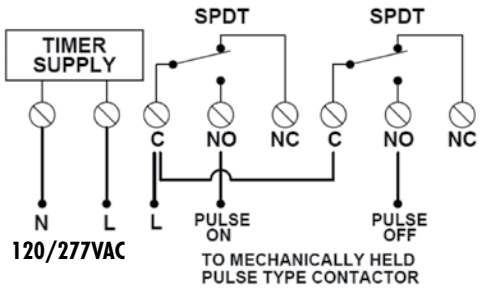
**TERMINAL RANGE:** #12 - #18AWG.

**OPERATING TEMPERATURE:**
-31 °F to +131 °F (-35 °C to +55 °C).

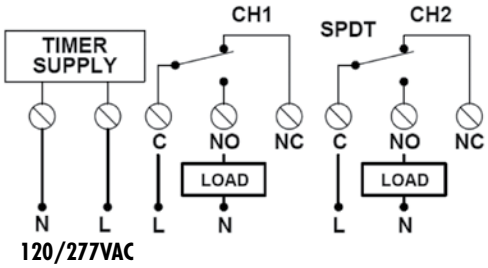
**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -Y metal indoor enclosure NEMA 1.
All with lockable hasp (see pages 589-593 for enclosure dimensions).

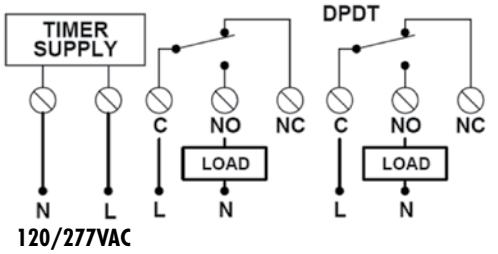
**DGM100A**

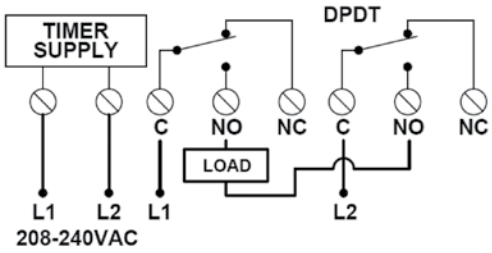



**DG200A**




**DG100A**



# DW SERIES
## MULTIPURPOSE CONTROLS
## 1 OR 2 CHANNEL
## 365 / 7 DAY ADVANCE TIME SWITCHES



SunSet

**SPECIFICATION FAVORITE!**

## APPLICATIONS

c UL us

**1 CHANNEL**
- Outdoor lighting
- Security lighting
- Parking lot lighting
- Canopy lighting

**2 CHANNEL**
- HVAC equipment
- Interior lighting
- Electric motors
- Refrigerator defrost control: condensers, heaters.

## FEATURES

**SCHEDULING:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.

**SunSet ASTRONOMIC (DWZ100B only):** Adjusts daily to changes in sunset times. Adjustable 10°- 60° Northern or Southern latitudes. Can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.

**HOLIDAYS:** 1 to 24 individual dates.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation scheduled ON or OFF, automatic operation then resumes.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM or 24 Hour Format

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DWZ100B | 82189 | 120/208-240/277 | 1 | SPDT |
| DW200B | 82190 | 120/208-240/277 | 2 | SPDT |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| General Purpose | 24-277 | 30A | 30A |
| Ballast | 120<br>277 | 30A<br>20A | 10A<br>10A |
| Tungsten | 120-277 | 15A | 2A |
| Pilot Duty | 120-277 | 720VA | 720VA |
| Motor Load | 120<br>208-277 | 1HP<br>2HP | 1HP<br>2HP |
| Resistive | 28VDC | 30A | 30A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

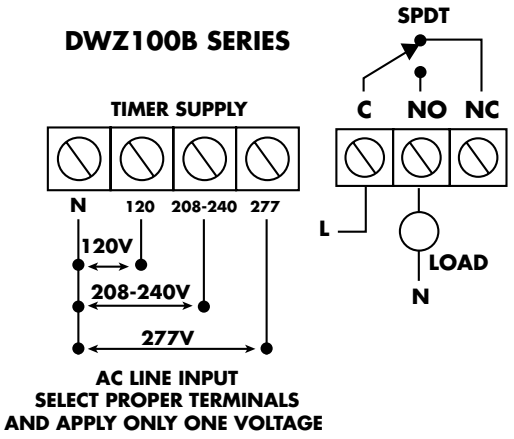
**INPUT VOLTAGE:**
120/208-240-277VAC, 50/60Hz.

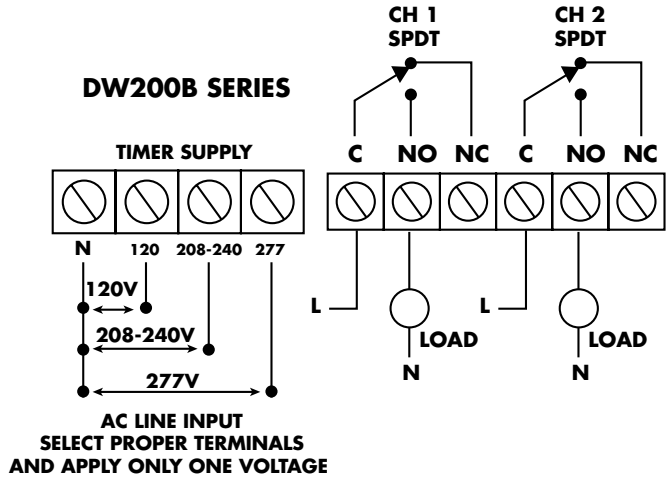
**TERMINAL RANGE:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.

**OPERATING TEMPERATURE:**
-40 °F to +158 °F (-40 °C to 70 °C).

**POWER CONSUMPTION:** 5VA Max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -0 metal Indoor/Outdoor NEMA 3.
All with lockable hasp (see pages 589-593 for enclosure dimensions).



# DTS SERIES
## MULTIPURPOSE CONTROLS
## 1, 2 OR 4 CHANNEL
## 365 / 7 DAY ADVANCE TIME SWITCH



**MAINTAINED AND SIGNAL TIMING!**

CALIFORNIA Title 24

ASHRAE 90.1

## APPLICATIONS

- Indoor and outdoor lighting
- Heating and air conditioning
- Security systems
- Horns and bells
- Low voltage lighting
- Misting and spraying
- Roof cooling
- Clock correction systems
- Process functions

## FEATURES

**SCHEDULING:** 99 ON/OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.

**SEASONS:** 1 to 4 with different daily schedules which can wrap around into the new year.

**HOLIDAYS:** 1 to 24 individual dates.

**SIGNAL/PULSE DURATION:** 2 different settings per channel: each 1-99 seconds.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.

**CLOCK FORMAT:** AM/PM or 24 Hour Format.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 7 days of real time back up.

**STANDARDS:** Listed UL917

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DTS100B | 82185 | 120/208-240/277 | 1 | DPDT |
| DTS200B | 82186 | 120/208-240/277 | 2 | SPDT |
| DTS400B | 82187 | 120/208-240/277 | 4 | SPDT |

| TYPE | DTS100B, DTS200B VOLTAGE (VAC) | RATING NO | RATING NC | DTS400B VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|---|---|---|
| General Purpose | 24-277 | 30A | 30A | 24-277 | 20A | 20A |
| Ballast | 120<br>277 | 30A<br>20A | 10A<br>10A | 120-277 | 13A | -<br>- |
| Tungsten | 120-277 | 15A | 2A | 120 | 8A | |
| Pilot Duty | 120-277 | 720VA | 720VA | 120-277 | 720VA | 360VA |
| Motor Load | 120<br>208-277 | 1HP<br>2HP | 1HP<br>2HP | 120/240 | 1/2HP | 1/2HP |
| Resistive | 28VDC | 30A | 30A | - | - | - |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:** 120/208-277VAC, 50/60Hz.

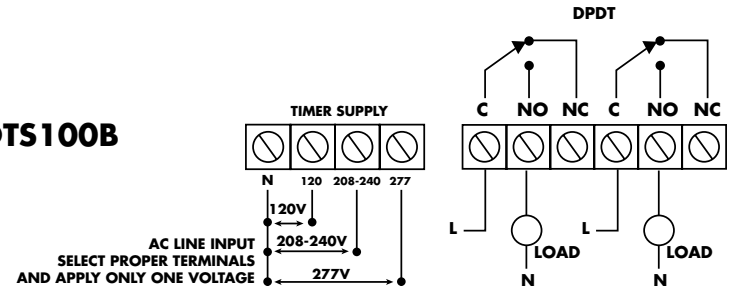
**TERMINAL RANGE:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.

**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

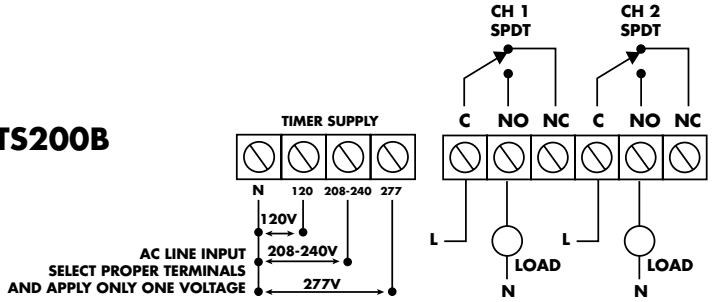
**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R with lockable hasp (see pages 589-593 for enclosure dimensions).

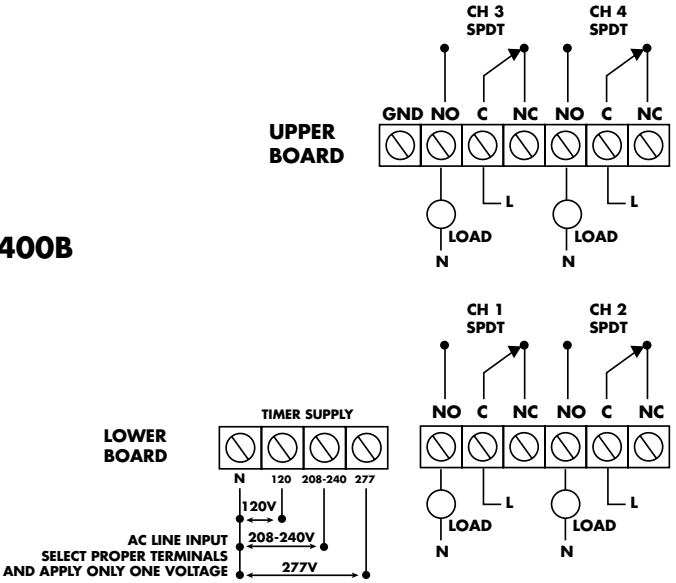
### DTS100B




### DTS200B




### DTS400B



# DZS SERIES
## MULTIPURPOSE CONTROLS
## 1, 2 OR 4 CHANNEL
## 365 / 7 DAY ADVANCED TIME SWITCH



SunSet

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

***REMOVABLE*** **MEMORY MODULE FOR COMPUTER PROGRAMMING!**

## APPLICATIONS

c UL us

- HVAC equipment
- Horns and bells
- Interior lighting
- Electric motors
- Outdoor lighting and signs



Memory Module Programmer optional

| CAT NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DZS100BP | 82182 | 120/208-240/277 | 1 | DPDT |
| DZS200BP | 82183 | 120/208-240/277 | 2 | SPDT |
| DZS400BP | 82184 | 120/208-240/277 | 4 | SPDT |
| DZS100BP-0 | 82215 | 120/208-240/277 | 1 | DPDT |
| DZS200BP-0 | 82227 | 120/208-240/277 | 2 | SPDT |
| DZS200BP-12 | 82228 | 12VDC | 2 | SPDT |
| DZS200BP-24 | 82229 | 24VAC | 2 | SPDT |
| DZS400BP-0 | 82230 | 120/208-240/277 | 4 | SPDT |
| USB-MMP | 82196 | | Memory Module Programmer | Includes software |

| TYPE | DZS100BP, DZS200BP VOLTAGE (VAC) | DZS100BP, DZS200BP RATING NO | DZS100BP, DZS200BP RATING NC | DZS400BP VOLTAGE (VAC) | DZS400BP RATING NO | DZS400BP RATING NC |
|---|---|---|---|---|---|---|
| General Purpose | 24-277 | 30A | 30A | 24-277 | 20A | 20A |
| Ballast | 120<br>277 | 30A<br>20A | 10A<br>10A | 120-277 | 13A | -<br>- |
| Tungsten | 120-277 | 15A | 2A | 120 | 8A | - |
| Motor Load | 120<br>208-277 | 1HP<br>2HP | 1HP<br>2HP | 120/240 | 1/2HP | 1/2 HP |
| Pilot Duty | 120-277 | 720VA | 720VA | 120-277 | 720VA | 360VA |
| Resistive | 28VDC | 30A | 30A | - | - | - |

## FEATURES

**SCHEDULING:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10˚ - 60˚ Northern or Southern latitudes can be individually offset +/-1 to 240 minutes from both sunset and sunrise times.

**SEASONS:** 1 to 4 with different daily schedules which can wrap around into the new year.

**HOLIDAYS:** 1 to 24 individual dates.

**SIGNAL/PULSE DURATION:** 2 different settings per channel: 1-99 seconds.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.

**CLOCK FORMAT:** AM/PM or 24 Hour Format.

**POWER OUTAGE BACKUP:** Permanent schedule retention with memory module. Supercapacitor provides 7 days of real time backup.

**MEMORY MODULE:** Removable MM can be programmed at any one location and inserted into another DZS series unit.

**COPY FEATURE:** Unit can be configured to copy program schedule to multiple memory modules.

**OPTION:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.

**STANDARDS:** Listed UL917.

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
120/208-240/277VAC, 50/60Hz.

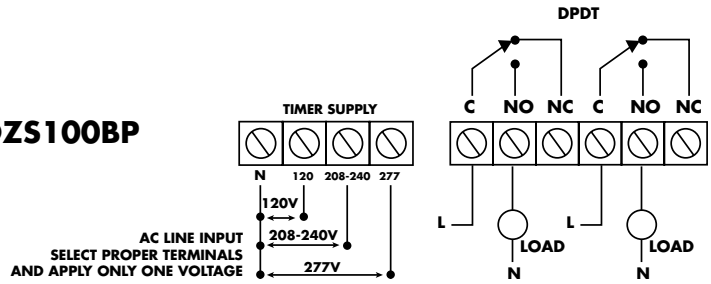
**TERMINAL RANGE:**
#14-#16AWG for line input.
#12-#16AWG load outputs.

**OPERATING TEMPERATURE:**
-40 °F to +158 °F (-40 °C to 70 °C).

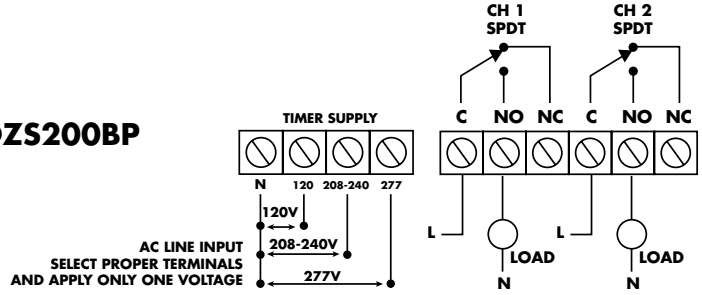
**POWER CONSUMPTION:**
5VA Max: DZS100/200BP.
6VA Max: DZS400BP.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -0 metal Indoor/Outdoor NEMA 3.
All with lockable hasp (see pages 589-593 for enclosure dimensions).

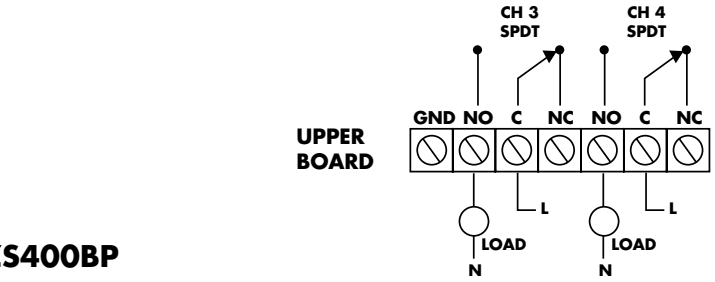
### DZS100BP

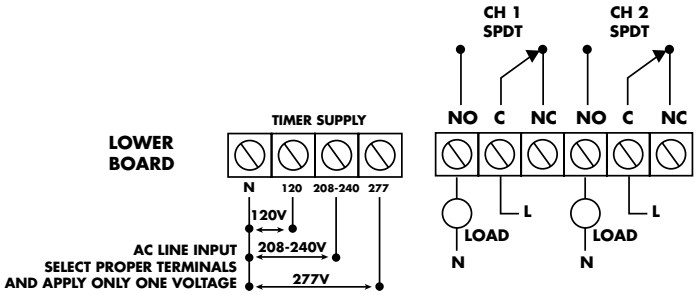



### DZS200BP




### DZS400BP



# DZM SERIES
## MOMENTARY OUTPUT
## 365 / 7 DAY ADVANCED LIGHTING CONTROL TIME SWITCH



SunSet

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1



Memory Module Programmer optional

**GREAT FOR LATCHING CONTACTORS!**

## APPLICATIONS

c UL us

- Low voltage latching relays
- Direct wire to mechanically held contactors

## FEATURES

**SCHEDULING:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.

**SEASONS:** 1 to 4 with different daily schedules which can wrap around into the new year.

**HOLIDAYS:** 1 to 24 individual dates.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM or 24 Hour Format.

**POWER OUTAGE BACKUP:** Permanent scheduled retention with memory module. Supercapacitor provides 7 days of real time backup.

**MEMORY MODULE:** Removable MM can be programmed at any one location and inserted into another DZM series unit.

**COPY FEATURE:** Unit can be configured to copy program schedule to multiple memory modules.

**OPTION:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DZM200BP | 82188 | 120/208-240/277 | 2 | SPDT Momentary |
| USB-MMP | 82196 | | Memory Module Programmer | Includes software |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120-277 | 20A |
| Pilot Duty | 120-277 | 720VA |

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
120/208-240/277VAC, 50/60Hz.

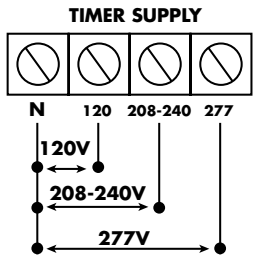
**TERMINAL RANGE:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.

**OPERATING TEMPERATURE:**
-40 °F to 158 °F (-40 °C to +70 °C).

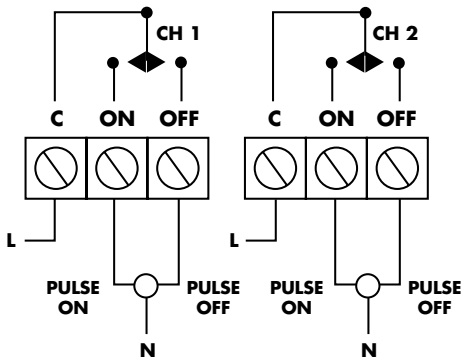
**POWER CONSUMPTION:** 4VA Max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -0 metal Indoor/Outdoor NEMA 3.
All with lockable hasp (see pages 589-593 for enclosure dimensions).

**AC LINE INPUT SELECT PROPER TERMINALS AND APPLY ONLY ONE VOLTAGE.**




**MECHANICALLY HELD CONTACTORS OR LATCHING RELAYS.**



# LC200 SERIES
## LIGHT LEVEL / TIME OF DAY OPTION
## 2 ZONES LIGHTING CONTROL

**STAGE LIGHTING TURN ON LEVEL**



responsible energy

ASHRAE 90.1

EPC1 sensor supplied with unit.

## APPLICATIONS

c UL us

- 24 hour convenience stores
- Open wall parking structures
- Large canopies
- Building perimeters
- Atriums

- Use to control two different outdoor lighting circuits utilizing one photocell. Sign lighting can turn ON at one ambient light level while parking lot lighting turns ON at a different light level.

## FEATURES

**PHOTOSENSOR INPUT:** EPC1 included.

**DUAL OUTPUTS:** with independent turn-ON adjustment for Stage1 and Stage 2.

**LIGHT LEVEL ACTIVATION:** Turn ON is user settable from 2 to 100 footcandle; Independent light level adjustment for each zone. Turn OFF is a maximum of 2 times turn ON level. Built-in delay OFF of 30 seconds to avoid reaction to lightning or headlights.

**SWITCHED INPUT:** Turns off loads. Can be used for photocell ON and time switch OFF operation.

**STANDARDS:** Listed UL916.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF ZONES | OUTPUT CONTACTS |
|---|---|---|---|---|
| LC200 | 82111 | 120/240/277 | 2 | SPDT |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| Resistive | 120/240<br>277 | 20A<br>12A | 10A |
| Ballast | 120<br>240/277 | 20A<br>6A | 10A<br>3A |
| Tungsten | 120/240/277 | 5A | 3A |
| Pilot Duty | 120/240<br>277 | 470VA<br>690VA | 275VA |

## SPECIFICATIONS

**INPUT VOLTAGE:**
120/240/277VAC, 50/60Hz.

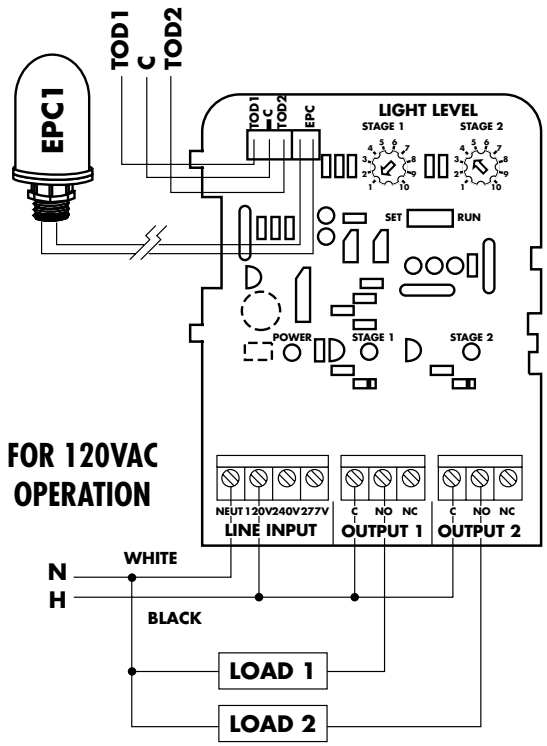
**TERMINAL RANGE:** Relay #12AWG; input power terminals #14 - #22AWG; TOD/sensor terminals accept #18 - #22AWG.

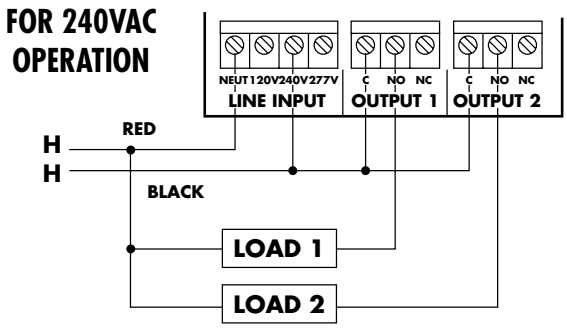
**OPERATING TEMPERATURE:**
-40 °F to +140 °F (-40 °C to + 60 °C).

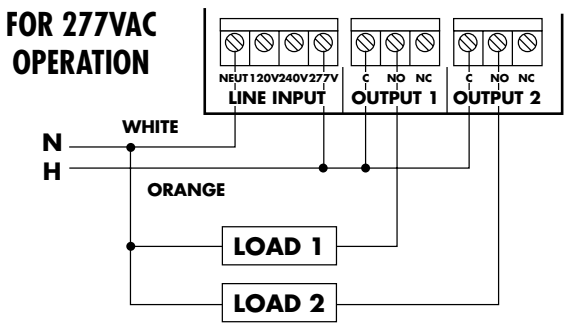
**POWER CONSUMPTION:** 5VA Maximum.

**ENCLOSURE:** LC200 includes metal Indoor NEMA 1 with lockable hasp (see pages 589-593 for enclosure dimensions).

**OTHER MOUNTINGS:**
LC200M mechanism only.



# DGU & DGLC SERIES

## LIGHTING CONTROL WITH PHOTO OR OVERRIDE INPUT
## 7 DAY LIGHTING CONTROL TIME SWITCH




**SMALL BUSINESS ENERGY CODE PANEL**

## APPLICATIONS

c UL us

### INTERIOR LIGHTING
- Open office zoning
- Hallways
- Meeting and sales areas
- Stock rooms and warehouses

### EXTERIOR LIGHTING
- Signage and store windows
- Security
- Parking lots


Model EPC-A supplied with DGLC-A unit.


With optional Timed Override

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| DGU100A-Y | 82211 | 120-277 | 1 | DPDT |
| DGUM100A | 82212 | 120-277 | 1 | SPDT Momentary |
| DGUM100A-Y | 82224 | 120-277 | 1 | SPDT Momentary |
| DGLC100A-NC | 82223 | 120-277 | 1 | DPDT |
| DGLC200A-NC | 82213 | 120-277 | 2 | SPDT |
| EPC-A | 82112 | Accessory Photo Sensor | - | - |
| SS410 | 14033 | 24VAC/24VDC | - | SPDT |
| TRP-24B | 98225 | 120/277 | Transformer Power Pack | SPST |

## FEATURES

**SCHEDULING:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.

**PHOTOSENSOR INPUT:** Unique push button set-up assures accurate operation with automatic calibration that adjusts for wire size and distance. EPC-A photo sensor is included with the DGLC-A and may be ordered as an option for use with model DGU100A & DGUM100A.

**LIGHT LEVEL ACTIVATION:** Turn ON is user settable from 1 to 100 footcandle; Turn OFF is a maximum of 2 times turn ON level. Each channel has an independent setting. Includes a user settable delay before ON and OFF between 1 – 90 seconds.

**REMOTE OVERRIDE ON:** Each channel has independent input for a maintained dry-contact closure. May use TORK model SS410 and TRP-24Bfor timed override. May use with occupancy sensor with dry contacts as override.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**MOMENTARY CONTACT - DGUM100A:** 2 second contact closure ON & OFF to control mechanically held contactors or latching relays.

**BLOCK HOLIDAY:** 9 holiday blocks can be set for individual days or for duration of any number of days.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**CLOCK FORMAT:** AM/PM or 24 Hour format.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.

**STANDARDS:** Listed UL916.

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:** 120-277VAC, 50/60Hz (auto detection).

**TERMINAL RANGE:**
#12 - #18AWG for line/load.
#18 - #26AWG sensor/switch input.

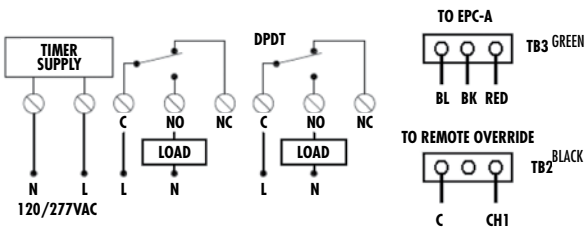
**OPERATING TEMPERATURE:**
-31 °F to +131 °F (-35 °C to + 55 °C).

**POWER CONSUMPTION:** 6VA Maximum.

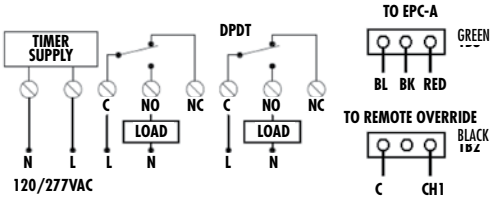
**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -NC Noryl® Indoor/Outdoor NEMA 3R with clear Lexan® cover.
Suffix -Y metal Indoor enclosure NEMA 1.
All with lockable hasp (see pages 589-593 for enclosure dimensions).

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| Resistive | 24-277 | 20A | 10A |
| Ballast | 120-277 | 20A | 10A |
| Tungsten | 120 | 15A | - |
| Pilot Duty | 120<br>240 | 720VA | 290VA<br>360VA |
| Motor | 120<br>240 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Resistive | 28VDC | 20A | 10A |

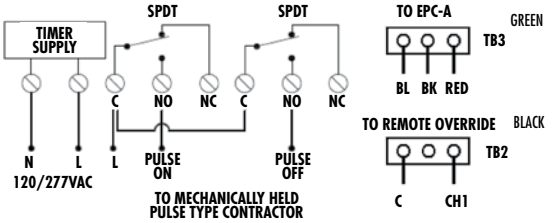
### DGU100A



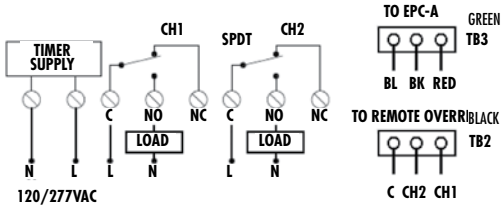

### DGLC100A




### DGUM100A




### DGLC200A



# ELC SERIES
## ENERGY AND LIGHTING CONTROL
## 4, 8 & 12 ZONE
## LIGHTING CONTROL




SunSet

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

**THE *DO-IT-ALL* ENERGY & LIGHTING CONTROLLER**

## APPLICATIONS

c UL us

- HVAC equipment
- Indoor/Outdoor lighting
- Meets indoor/outdoor lighting energy code requirements

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| ELC74 | 82523 | 24/120/208-240/277 | 4 | SPDT |
| ELC78 | 82524 | 24/120/208-240/277 | 8 | SPDT |
| ELC712 | 82525 | 24/120/208-240/277 | 12 | SPDT |
| EPC-LC | 82233 | Accessory Photo Sensor | - | - |
| LCS115M | 82082 | Accessory Momentary Switch | - | SPST |

## FEATURES

**SCHEDULING:** 128 time based events allow individual programs for each day of the week at a minimum 1 minute apart. Event types include ON, OFF, Duration, or Duty Cycle.

**SENSOR EVENT:** 32 sensor driven events allow individual programs for each day of the week.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 70° Northern or Southern latitudes. Settings can be offset from both sunset and sunrise times.

**UNIVERSAL INPUT:** 8 inputs may be assigned to any channel. ELC74 includes 4.
**SWITCHED INPUT:** Accepts input from optional momentary or maintained switch for a timed override.
**PHOTOSENSOR INPUT:** Accepts input from optional sensor. EPC-LC (indoor/outdoor) has a range from 0 - 250 foot-candels.

**MOMENTARY CONTACT:** May be configured for momentary ON/OFF operation to control latching contactors. The ELC74 operates as a two channel unit. The ELC78 operates as a four channel unit. The ELC712 operates as a six channel unit.

**HOLIDAYS:** 26 holidays may be set using 10 individual dates, 10 month type (last Monday in May), or 6 specific holidays with one of 3 independent holiday schedules.

**BLOCK HOLIDAY:** 10 holiday blocks can be set for individual days or for duration of any number of days and may use one of 3 holiday schedules.

**PULSE/TIME DURATION:** 4 different ON settings from 1 second to 23 hours, 59 minutes, 59 seconds.

**DUTY CYCLE:** 4 different ON and OFF patterns from 1 second to 23 hours, 59 minutes, 59 seconds.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**REMOTE OVERRIDE:** Universal input may be programmed for timed override from a momentary or maintained dry contact switch.

**MANUAL OVERRIDE:** Keyboard button control until the next regularly scheduled ON or OFF, automatic operation then resumes.

**STAGGERED START:** Optional stagger up time between channels, after a power outage; selectable from 5 seconds, 15 seconds, 30 seconds, 1 minute, 5 minutes, 10 minutes, and 15 minutes.

**CLOCK FORMAT**: AM/PM or 24 hour format.

**POWER OUTAGE BACKUP:** The program and time of day are maintained for a minimum of 2 days by means of a capacitor. After two days, a lithium battery takes over and provides a minimum accumulated time of 1 year. The lithium battery should provide over 10 years of protection.

**STANDARDS:** Listed UL916.

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
24/120/208-240/277VAC, 50/60Hz.

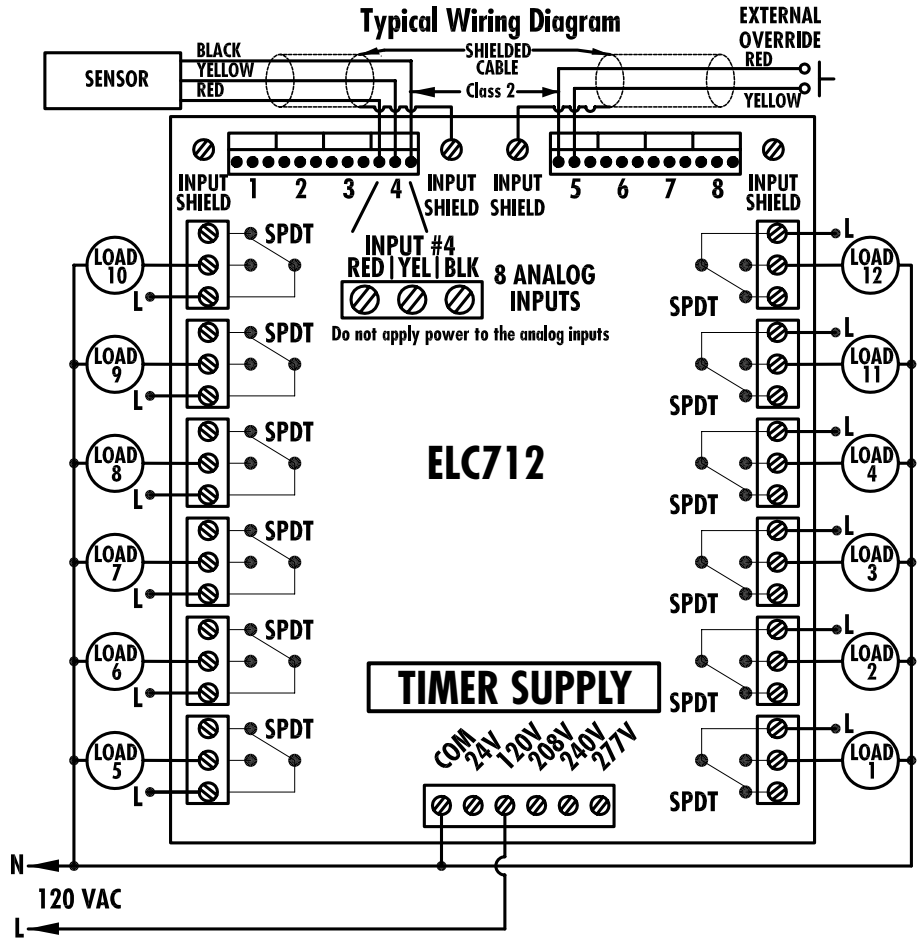
**TERMINAL RANGE:**
#10 - #16AWG for line input.
#10 - #16AWG for load output.
#14 - #22AWG universal input.

**OPERATING TEMPERATURE:**
-20 °F to +140 °F (-29 °C to + 60 °C).

**POWER CONSUMPTION:** 10VA Maximum.

**ENCLOSURE:** Metal Indoor NEMA 1 with lockable hasp (see pages 589-593 for enclosure dimensions).

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| General Purpose | 24/120 - 277 | 20A | 15A |
| Ballast | 120-277 | 20A | 20A |
| Tungsten | 120-277 | 5A | - |
| Pilot Duty | 120-240 | 470VA | 275VA |
| Motor | 120<br>208-277 | 1HP<br>2HP | 1/4HP<br>1/2HP |



# DLC400BP
## 4 ZONE LIGHTING CONTROL TIME SWITCH

**FLEXIBLE INDOOR & OUTDOOR LIGHTING CONTROLLER**




## APPLICATIONS

c UL us

### INTERIOR LIGHTING
- Open office zoning
- Hallways
- Meeting and sales areas
- Stock rooms and warehouses

### EXTERIOR LIGHTING
- Signage and store windows
- Security
- Parking lots

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| DLC400BP | 82191 | 120/208-240/277 | 4 | SPDT |
| USB-MMP | 82196 | Memory Module Programmer | Includes Software | |
| SS410 | 14033 | 24VAC/24VDC | - | SPDT |

## FEATURES

**CONFIGURABLE ZONES:** Simple three position slide switch sets logic for each zone: Time ON/Time OFF, Photo ON/Photo OFF, or Photo ON/ Time OFF.

**SCHEDULING:** 99 ON & OFF set points allow individual programs for each day of the week. Minimum 1 minute apart.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. **1.** Adjustable 10° - 60° Northern or Southern latitudes. **2.** Can be individually offset +/-1-240 minutes from both sunset and sunrise times.

**PHOTOSENSOR INPUT:** EPC2 photo sensor included.

**LIGHT LEVEL ACTIVATION:** Turn ON and OFF level is user settable from 1 to 100 footcandle. Each channel has an independent setting.

**REMOTE OVERRIDE:** Maintained dry contact closure or use TORK Model SS410 for timed override with flash warning before OFF. May use with occupancy sensor as override.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**SEASONS:** 1 to 4 with different daily schedules which can wrap around into the new year.

**HOLIDAYS:** 1 to 24 individual dates.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**POWER OUTAGE BACKUP:** Permanent schedule retention with memory module. Battery provides real time backup for 6 months cumulative.

**MEMORY MODULE:** Removable MM can be programmed at any one location and inserted into another DZS series unit.

**OPTION:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.

**STANDARDS:** Listed UL916.

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
120/208 - 240/277VAC, 50/60Hz.

**TERMINAL RANGE:** #10 - #14AWG.

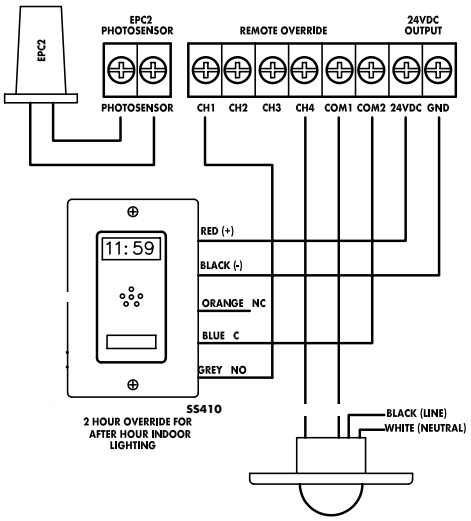
**OPERATING TEMPERATURE:**
-40 °F to +158 °F (-40 °C to + 55 °C).

**POWER CONSUMPTION:** 30VA Maximum.

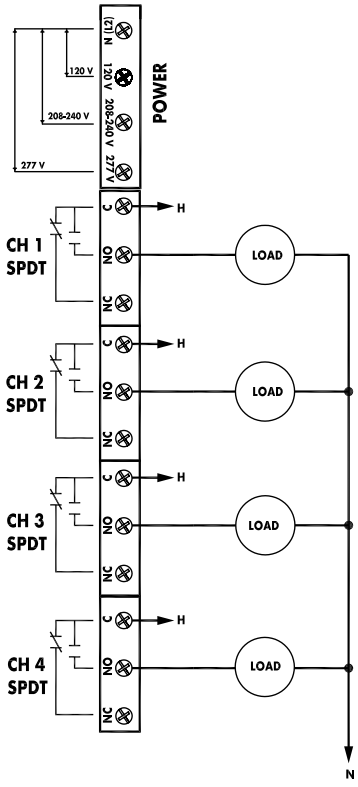
**ENCLOSURE:** Metal Indoor/Outdoor NEMA 3 with lockable hasp (see pages 589-593 for enclosure dimensions).

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| General Purpose | 24-277, 30VDC | 30A | 30A |
| Ballast | 120-277 | 20A | 10A |
| Tungsten | 120 | 10A | |
| Pilot Duty | 120-277 | 720VA | 720VA |

### DLC400BP
### AUXILIARY CONNECTIONS




### TORK DIGITAL CONTROL TERMINAL BLOCK



# LD SERIES
## EXTENDED LIGHTING CONTROL LIGHTING DELAY TIME SWITCH



ASHRAE 90.1

**ADD A WARNING BLINK TO ANY CONTROL**

## APPLICATIONS

- Open offices
- Gymnasiums
- Warehouses
- Outdoor recreation courts
- User-activated lights with time limits
- Match with photocontrol and timer to limit hours of use

## SPECIFICATIONS

**INPUT VOLTAGE:**
120/208/240/277VAC, 50/60Hz.

**TERMINAL RANGE:** #10 - #16AWG for line/load. #18 - #26AWG switch input.

**OPERATING TEMPERATURE:**
-22 °F to 150 °F (-30 °C to +65 °C).

**POWER CONSUMPTION:**
5VA Maximum.

**ENCLOSURE:** Metal Indoor NEMA 1 with lockable hasp (see pages 589-593 for enclosure dimensions).

## FEATURES

**MAINTAINED INPUT WITH LOAD WARNING BLINK:**
LDS Series controls output load contacts based on power applied to the time switch input contact. At removal of power from the time switch input, LDS Series provides 1 second blink then keeps load contacts closed for an extra 1 or 5 minutes (user selectable) before turn off.

**MAINTAINED INPUT WITH AUXILARY WARNING:**
LDSH Series controls output load contacts based on power applied to the time switch input contact. At removal of power from the time switch input, LDSH Series closes a second set of contacts for a user supplied audible or visual warning device. The warning circuit closes for a selected time of 4 seconds (best for audible device or continuous, then keeps load contacts closed for an extra 1 or 5 minutes (user selectable) before turn OFF.

**MOMENTARY INPUT:** Provides timed override when time switch input contact is unpowered (timer OFF). When activated during the warning period, load contacts are kept closed and timing starts. Both series can accept momentary input contact closure for ON to start the timing and OFF to end the timing.

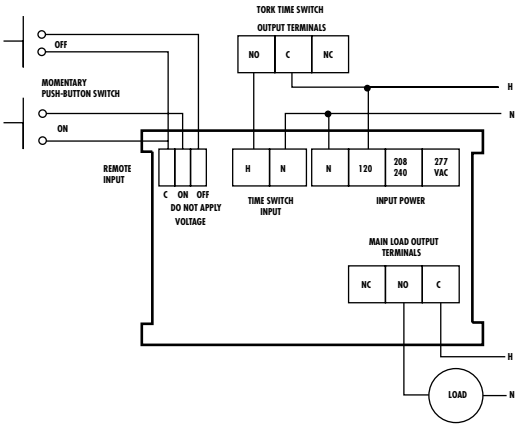
**TIMED OVERRIDE SETTINGS:** User may select override times of 1/2, 1, 1½, 2, 6, 9, or 12 hours. Warning before OFF is always active after override time.

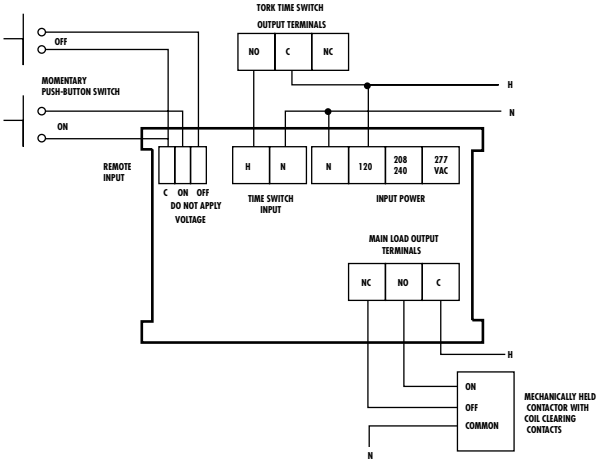
**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| LDS-A | 81026 | 120/208-240/277 | SPDT | Metal Indoor NEMA 1 |
| LDS | 81025 | 120/208-240/277 | SPDT | Mechanism |
| LDSH-A | 81031 | 120/208-240/277 | SPDT | Metal Indoor NEMA 1 |

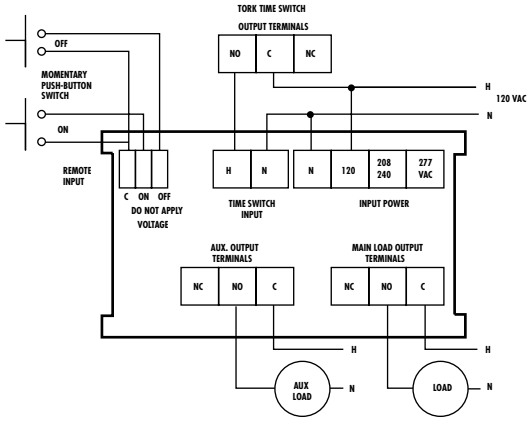
| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| General Purpose | 24/240<br>277 | 20A<br>20A | 10A<br>3A |
| Ballast | 120<br>208-277 | 20A<br>10A | 10A<br>3A |
| Tungsten | 120-277 | 5A | 3A |
| Pilot Duty | 120-240<br>277 | 470VA<br>690VA | 275VA |
| Resistive | 28VDC | 20A | 10A |

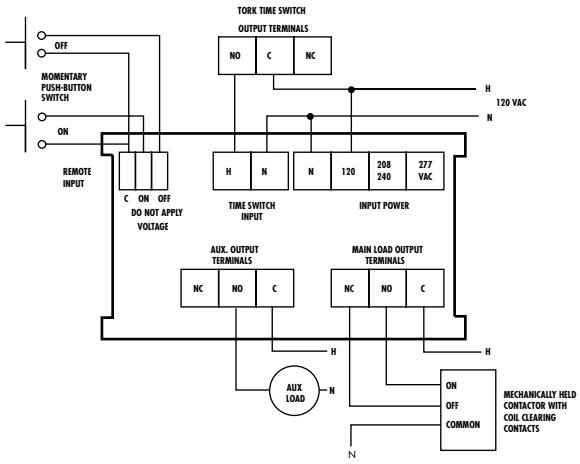
## LDS WIRING



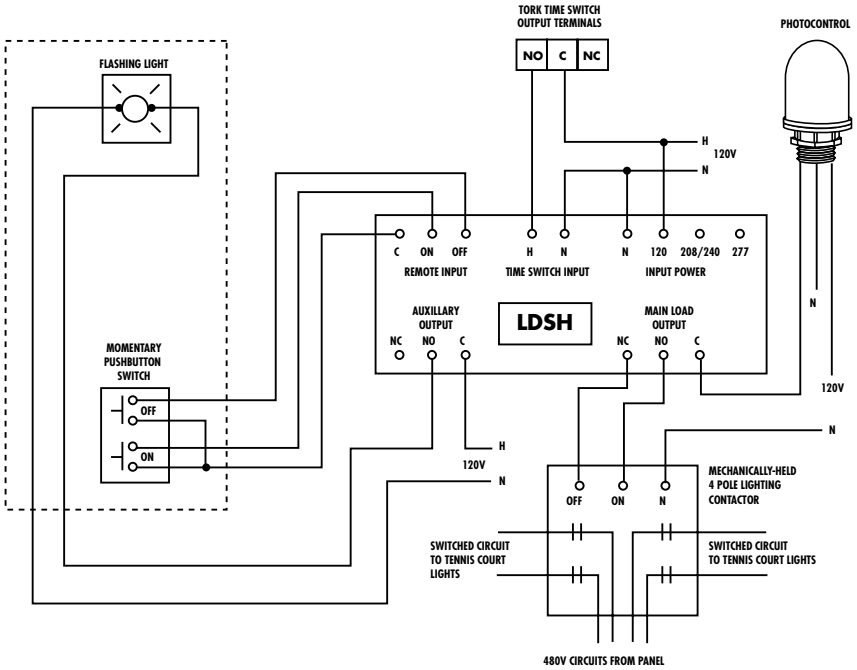




## LDSH WIRING




## APPLICATION WIRING



# DGS SERIES
## SIGNALING AND DUTY CYCLE 24 HOUR OR 7 DAY TIME SWITCH



**31 DAY CYCLE TIME: AN INDUSTRY FIRST!**

## APPLICATIONS

- Signaling
- Duty cycle

## FEATURES

**DG180A & DG280A:** 56 ON & OFF set points provide daily repeated programs. Minimum setting is 1 minute.

**DGS100A:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.

**DUTY CYCLE & SIGNALING:** Two different ON/OFF patterns or signal durations may be programmed. The durations can be up to 23 hours, 59 minutes and 59 seconds in length.

**SKIP FUNCTION (24 HOUR UNITS ONLY):** Each channel can be set for ACTIVE/SKIP operations that alternate from 1 - 31 days. This becomes an effective way to cycle loads on varying days within the month. Using the two-circuit DG280A, two loads can be set to operate on alternate days in a simple manner.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM or 24 hour.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.

**STANDARDS:** Listed UL916

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| 24 HOUR MODELS | | | | |
| DG180A | 82206 | 120-277 | 1 | DPDT |
| DG280A | 82207 | 120-277 | 2 | SPDT |
| DG280A-24 | 82220 | 24VAC | 2 | SPDT |
| 7 DAY MODELS | | | | |
| DGS100A | 82205 | 120-277 | 1 | DPDT |
| DGS100A-12 | 82218 | 12VDC | 1 | DPDT |
| DGS100A-24 | 82219 | 24VAC | 1 | DPDT |

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
120 - 277 VAC, 50/60 Hz (auto detection).

**TERMINAL RANGE:** #12 - #18AWG.

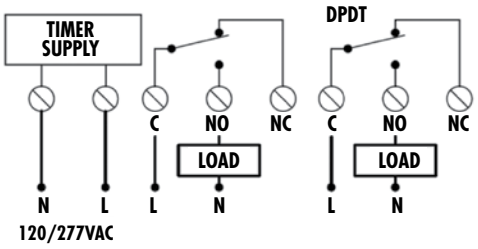
**OPERATING TEMPERATURE:**
-31 °F to +131 °F (-35 °C to + 55 °C).

**POWER CONSUMPTION:** 6VA Maximum.

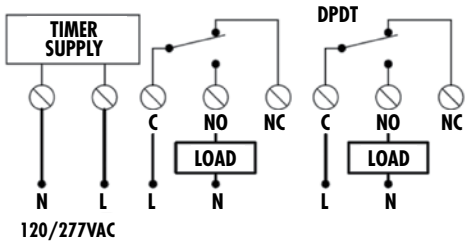
**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R with lockable hasp (see pages 589-593 for enclosure dimensions).

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| Resistive | 24-277 | 20A | 10A |
| Ballast | 120-277 | 20A | 10A |
| Tungsten | 120 | 15 A | - |
| Pilot Duty | 120<br>240 | 720VA | 290VA<br>360VA |
| Motor | 120<br>240 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Resistive | 28VDC | 20A | 10A |

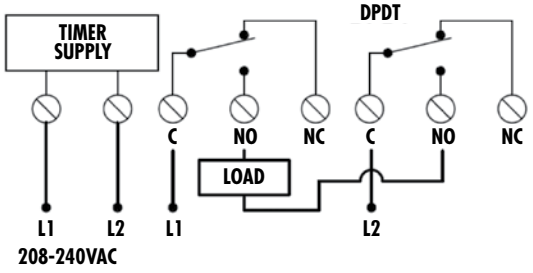
DGS100A
FOR 120V/277VAC



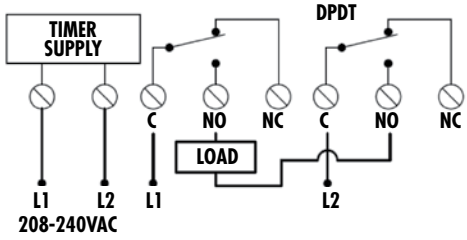

DG180A
FOR 120V/277VAC



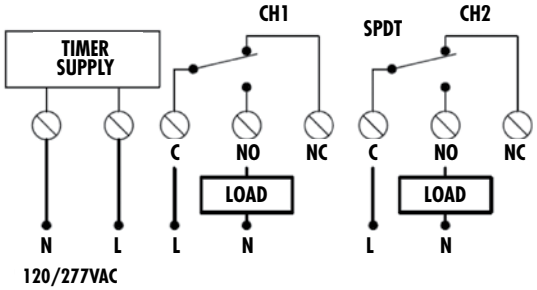

DGS100A
FOR 208-240VAC




DG180A
FOR 208-240VAC




DG280A



# EJWT & E500T SERIES

## DELAY, INTERVAL & PERCENTAGE TIME CYCLE TIME SWITCHES

**PERFECT FOR PROCESS CONTROL**




EJWT

E502T

E501T

## APPLICATIONS

- Poultry and livestock
- Agriculture or greenhouse
- Oil well pumping
- Ventilation
- Process control

## FEATURES

**EJWT – PERCENTAGE TIMER**
960 time combinations with two dials.
Cycle Time Dial sets 32 repeating cycles from 15 seconds to 24 hours.
Percentage ON Dial has 32 steps from 0% to 100%.
Repeats cycle as long as power is applied.

**E500T – ON DELAY TIMER**
Dial sets 30 time delay durations from 5 seconds to 3 hours.
External switch activated starts delay to ON.
Runs until external switch turns OFF.

**E501T – AUTO OFF INTERVAL TIMER**
Dial sets 30 time durations from 10 seconds to 12 hours.
Start/Stop button or External switch starts interval ON.
Automatically turns OFF at end of preset time.
START/STOP or External switch turns OFF.

**E502T – OFF DELAY TIMER**
Dial sets 30 time durations from 5 seconds to 3 hours.
External switch starts interval ON.
Automatically turns OFF at end of preset time.
External switch turns OFF.

**STANDARDS:** Listed UL916.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | OUTPUT CONTACT |
|---|---|---|---|
| EJWT | 82513 | 120-240 | SPDT |
| E500T | 82514 | 120-240 | SPDT |
| E501T | 82515 | 120-240 | SPDT |
| E502T | 82516 | 120-240 | SPDT |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| General Purpose | 120-240 | 20A | 10A |
| Resistive | 120-240 | 20A | 10A |
| Motor | 120<br>208-240 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Pilot Duty | 120/240 | 470VA | 275VA |

## SPECIFICATIONS

**TIMING ACCURACY:** 1% of timing range.

**INPUT VOLTAGE:** 120/240VAC, 60Hz.

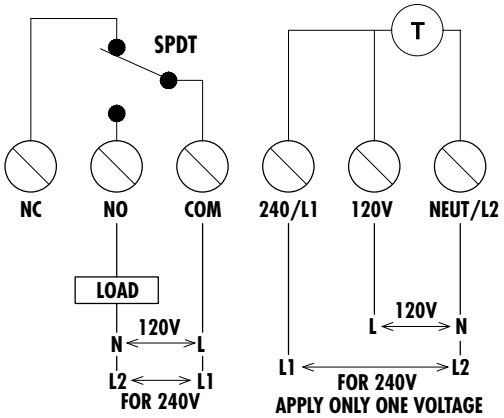
**TERMINAL RANGE:** #12 - #18AWG.

**OPERATING TEMPERATURE:**
32°F to +122°F (0°C to + 50°C).

**POWER CONSUMPTION:** 16VA Maximum.

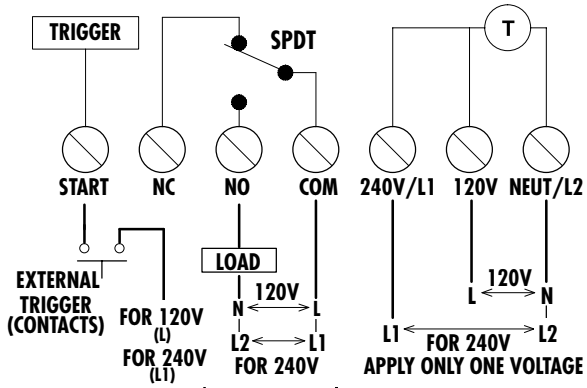
**ENCLOSURE:** Indoor NEMA 4X is standard
(see pages 589-593 for enclosure dimensions).

### EJWT




Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.

### E500T / E501T / E502T




Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.

# PCT15M
## PANEL MOUNT CYCLE TIME SWITCHES




## APPLICATIONS

- Oil field pumping stations
- Poultry and livestock feeding and watering
- Ventilation
- Process control

## FEATURES

**FIXED TIMER CYCLE:** 15 minutes repeating cycle when unit is powered.

**PERCENTAGE ON:** 1% to 99% increments.

**DISPLAY:** Digital percentage reading.

**ON SETTING:** Hold ON.

**OFF SETTING:** Hold OFF.

**POWER OUTAGE BACKUP:** Remembers place in cycle when power resumes.

**TEST MODE:** For temporary ON/OFF cycle verification.

**PANEL MOUNTING:** 3" diameter back housing retrofits to existing mechanical timer dimensions. Two sets of mounting dimensions to choose from. (see pages 589-593 for enclosure dimensions).

**STANDARDS:** Listed UL60370 (formerly UL917).

## SPECIFICATIONS

**TIMING ACCURACY:** 1% of timing range.

**INPUT VOLTAGE:** 120-240VAC, 50/60Hz (automatic detection).

**TERMINAL RANGE:** #14 - #16AWG for line input, #12 - #16AWG for load output.

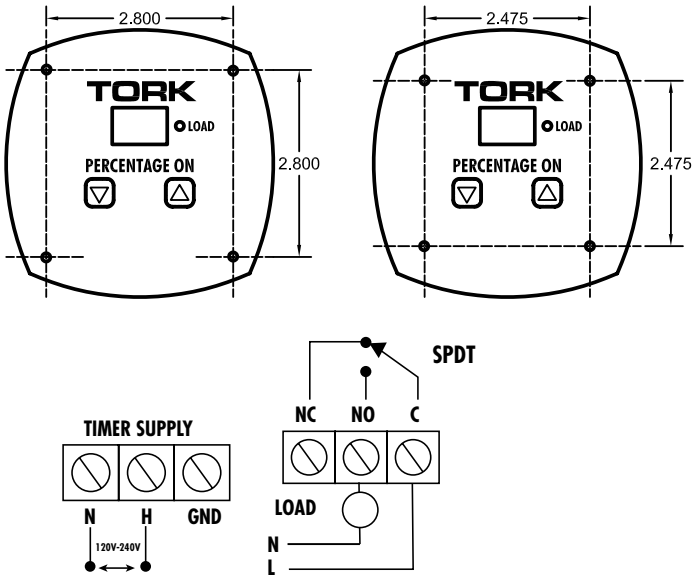
**OPERATING TEMPERATURE:** -40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 5VA Max.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | OUTPUT CONTACT |
|---|---|---|---|
| PCT15M | 82528 | 120-240 | SPDT |

| TYPE | RATINGS | |
|---|---|---|
| | NO | NC |
| 120-240VAC General Purpose & Resistive | 20A | 20A |
| 120VAC Motor | 1HP | 1/4HP |
| 240VAC Motor | 2HP | 1/2HP |

### PCT15M



# ACT30MA
## ADJUSTABLE CYCLE TIMER TIME SWITCHES




## APPLICATIONS

- Poultry and livestock feeding and watering
- Agriculture irrigation for field or greenhouse
- Oil well pumping daily cycle
- Ventilation
- Process control

## FEATURES

**960** time combinations with two dials

ON time dial sets 30 time steps from 30 seconds to 15.5 minutes

OFF dial has 30 steps time steps from 30 seconds to 15.5 minutes

Repeats cycle as long as power is applied

Hold On or Hold Off positions included

**STANDARDS:** Listed UL916.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120-240VAC.

**TERMINAL RANGE:** #18 - #12AWG.

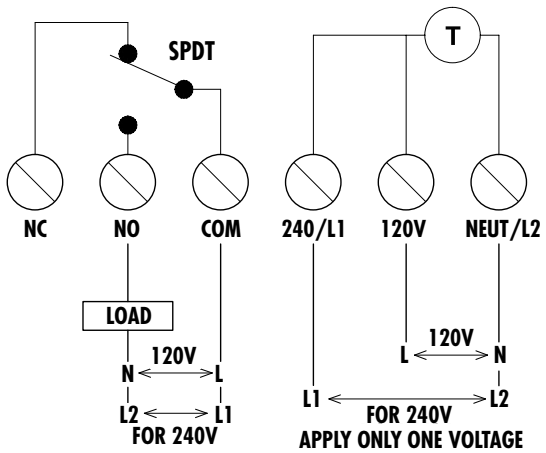
**CONTACTS:** SPDT.

**ENCLOSURE:**
Indoor NEMA 4X is standard (see pages 589-593 for enclosure dimensions).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | OUTPUT CONTACT |
|---|---|---|---|
| ACT30MA | 82527 | 120-240 | SPDT |

| TYPE | RATINGS NO | RATINGS NC |
|---|---|---|
| 120-240VAC General Purpose & Resistive | 20A | 10A |
| 120VAC Motor | 1HP | 1/4HP |
| 208-240VAC Motor | 2HP | 1/2HP |
| 120-240VAC Pilot Duty | 470VA | 275VA |

### ACT30MA



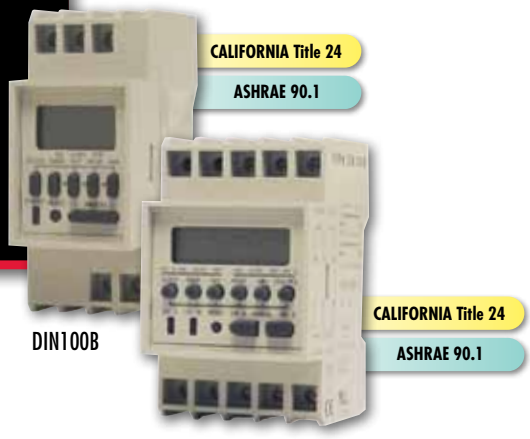

Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.

# DIN SERIES
## 1 OR 2 CHANNEL
## 7 DAY TIME SWITCH

CALIFORNIA Title 24

ASHRAE 90.1

PANEL BUILDERS' CHOICE



DIN100B



DIN200B

CALIFORNIA Title 24

ASHRAE 90.1

## APPLICATIONS

- Panel builders
- Indoor/Outdoor lighting
- Security systems
- HVAC equipment

## FEATURES

**SCHEDULING:** 8 ON and OFF pairs of set points for DIN100B. 4 ON and OFF (CH A) and 3 ON and OFF (CH B) pairs of set points for DIN200B. Individual programs on each day of the week. Minimum setting is 1 minute.

**MANUAL OVERRIDE:** Until the next regular scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Battery retains time and schedule.

| CAT. NO. | UPC CODE | DRY CONTACTS | CLOCK INPUT (VAC)50/60 Hz | NO. OF CHANNELS | NUMBER OF ON/OFF |
|---|---|---|---|---|---|
| DIN100B | 82193 | SPDT | 120 | 1 | 8 |
| DIN200B | 82192 | SPDT | 120 | 2 | 4 Channel A<br>3 Channel B |

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| Resistive | 120 | 16A | 16A |
| General Purpose | 120 | 8A | 8A |
| Motor (DIN100 only) | 120 | 1/2HP | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC, 50/60Hz.

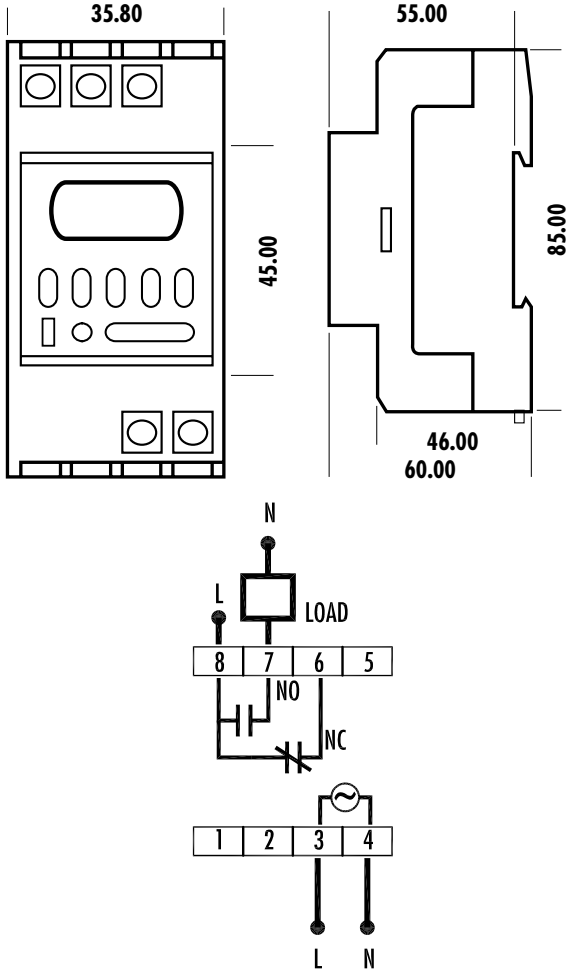
**TERMINAL RANGE:** #12 - #18AWG.

**OPERATING TEMPERATURE:**
DIN100B: 14 °F - 131 °F (-10 °C - +55 °C).
DIN200B: 14 °F - 113 °F (-10 °C - +45 °C).

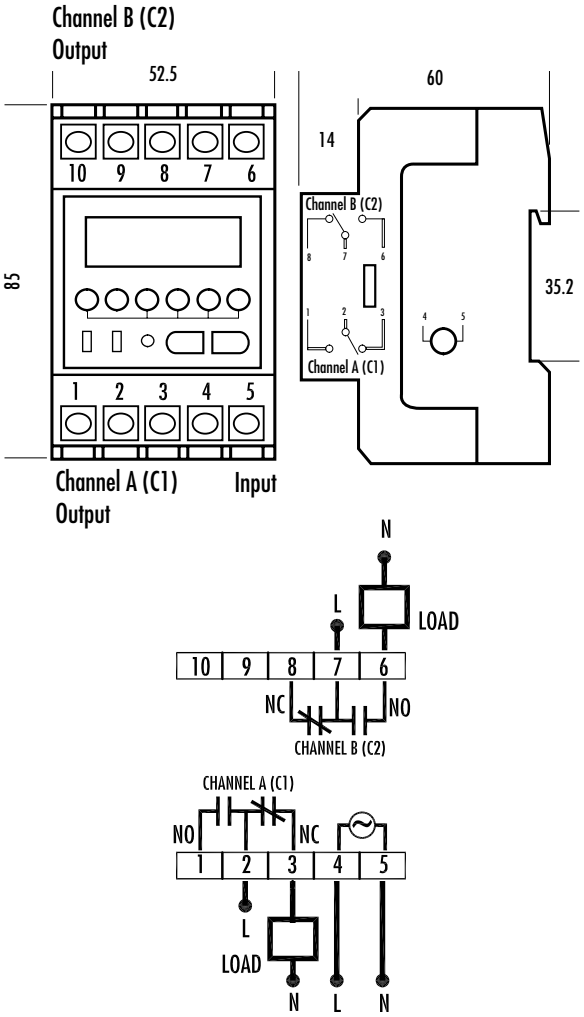
**POWER CONSUMPTION:** 4VA Maximum.

**MOUNTING:** DIN rail #50022 (35mm) or flat surface using supplied adapter.

**DIN100B**




**DIN200B**



# SMC SERIES
## MOMENTARY CONTACT ADAPTER



## APPLICATIONS

- Converts maintained contacts for pulse switching
- Timer to latching contactor control
- Photocell to latching contactor control Signaling

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC, 50/60Hz.

**TERMINAL RANGE:** #12 - #18AWG.

**OPERATING TEMPERATURE:** -31 °F to +131 °F (-35 °C to + 55 °C).

**POWER CONSUMPTION:** 6VA max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R with lockable hasp (see pages 589-593 for enclosure dimensions).

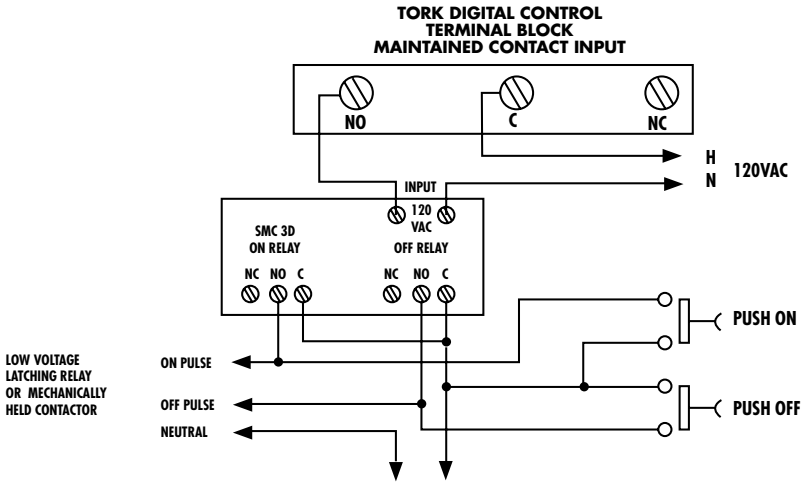
| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| SMC3D | 52011 | 120 | SPDT Momentary |

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| Resistive | 120 | 10A | 10A |
| General Purpose | 120 | 10A | 10A |
| Motor | 120 | 1/4HP | |

## FEATURES

**MAINTAINED INPUT:** SMC3D accepts maintained input power from any 120 volt control. When power is applied or removed a short contact closure (pulse) is created on the dry output contacts.

**MOMENTARY OUTPUT:** SMC3D provides two dry output contacts. The ON contact provides a 2 second contact closure (pulse) when power is applied to the input contacts. The OFF contact provides a 2 second pulse when power is removed from the input contacts.



# 5401A SERIES
## INCREASED AMPERAGE & VOLTAGE SWITCHING 40 AMP CONTACTORS




5401A 5441A

## APPLICATIONS

- Lighting loads
- Exhaust fans
- Electric and hot water heaters
- Refrigeration and defrosting

| CAT. NO. | UPC CODE | COIL VOLTS | NO. OF CONTACTORS | OUTPUT CONTACTS |
|---|---|---|---|---|
| 5401A | 81019 | 120 | 1 | 3PST |
| 5441A | 81020 | 120 | 4 | 3PST |

| TYPE | VOLTAGE (VAC) | FLA | RATING |
|---|---|---|---|
| Tungsten* | 120 | - | 30A |
| Ballast* | 120/277 | - | 40A |
| LED* | 120/277 | - | 40A |
| Motor (Single Phase) | 120<br>240 | 40<br>40 | 3HP<br>7.5HP |
| Motor (3 Phase) | 240<br>480 | 40<br>40 | 10HP<br>20HP |
| Coil Data: 120VAC @ 60Hz 6VA Holding/seal; 60VA inrush | | | |

* Ratings for single phase load

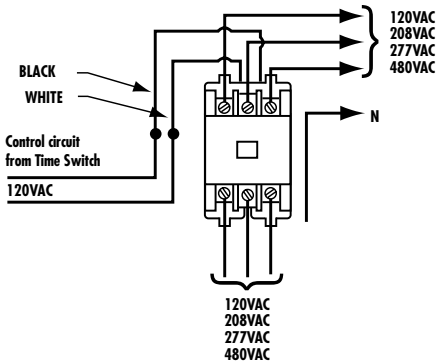
## FEATURES

**CONTACT RATINGS:** Can switch up to 40 AMPS per pole from 120VAC to 277V lighting loads, one to three circuits simultaneously.

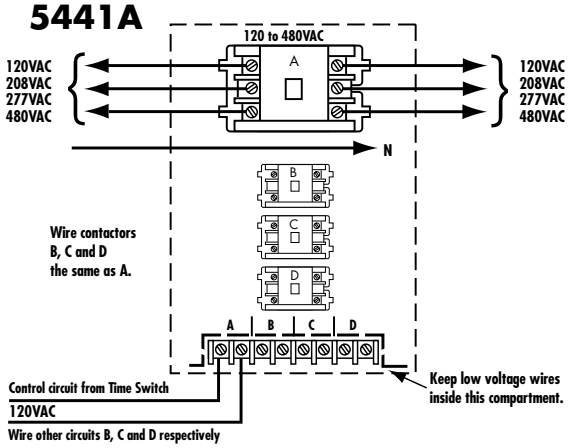
**EASY WIRING:** Includes 120 volt control wiring compartment. 5441 has terminal strip pre-mounted for quick connection.

**ENCLOSURE:** Metal NEMA 1 Indoor enclosure (see pages 589-593 for enclosure dimensions).

### 5401A




### 5441A



# HPS STARTER
## FOR HIGH PRESSURE SODIUM LAMPS
## STARTING AID




## APPLICATIONS

- Designed to operate as a starting aid, for all H.P.S. ballasts from 35 to 400 watts, with lamp voltage of 55 or 100 volts.

## SPECIFICATIONS

**LINE VOLTAGE:** 105 - 347VAC.

**LAMP VOLTAGE:** 55 or 100VAC.

**LAMP WATTAGE:** 35 to 400 watts.

**OPERATING TEMPERATURE:** -40 °F to +221 °F (-40 °C to + 105 °C).

**LEAD LENGTH:** 9 inches.

**ENCLOSURE:** Durable, high temperature Lexan® housing.

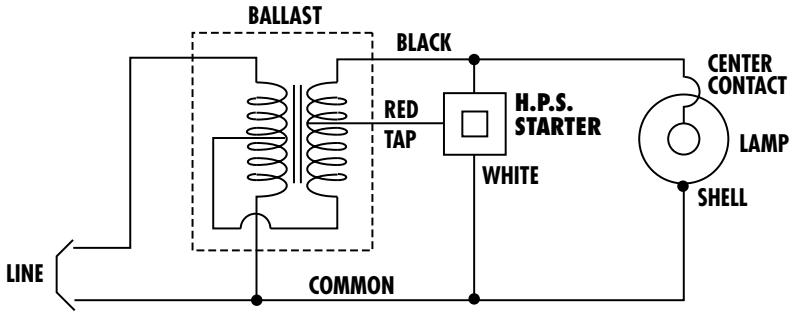
## FEATURES

**SMART VOLTAGE:** Delivers appropriate trigger spikes for lamp ignition, then reduces voltage to good lamps. Continues to feed voltage spikes to old or poorly working lamps.

**HIGH GRADE MATERIAL:** All components are sealed with high grade die-electric material to protect against contaminants and other adverse environmental conditions.

**EASY INSTALLATION:** Universal 3 wire design, color coded for ease of installation.

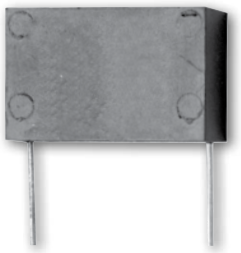
| CAT. NO. | UPC CODE | DESCRIPTION |
|---|---|---|
| HPS30 | 81030 | High Pressure Sodium Starter |




# SURGE SUPPRESSOR
## FOR HIGH ELECTRICAL NOISE

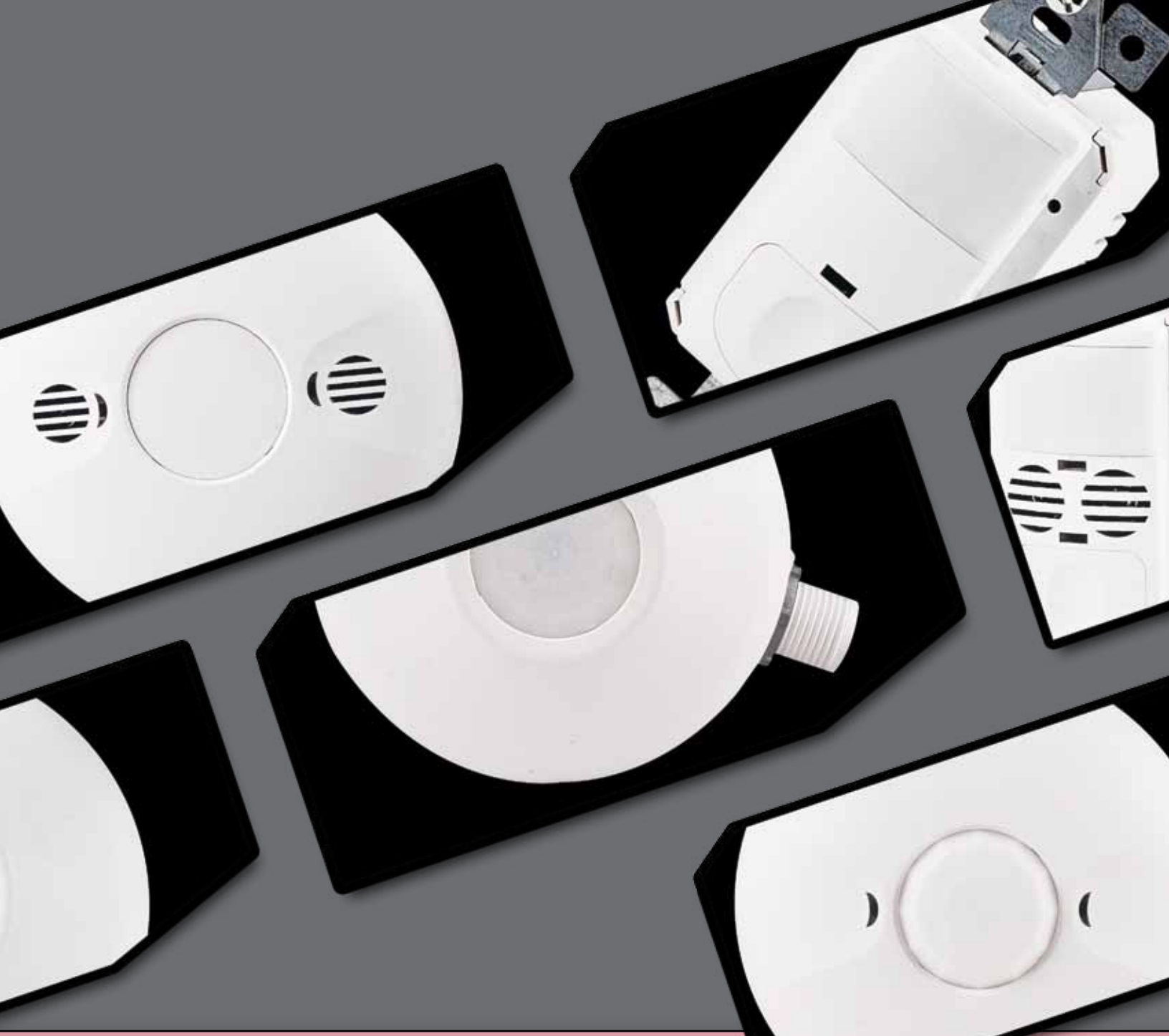
## APPLICATIONS

- For high electrical noise interference, recommended for all digital controls.



| CAT. NO. | UPC CODE | DESCRIPTION |
|---|---|---|
| 90058-1 | 81024 | Surge Suppressor |





# TORK® OCCUPANCY SENSORS

# SENSOR TECHNOLOGY & PLACEMENT GUIDE

## TECHNOLOGY
### PIR AND ULTRASONIC

A ***Passive Infrared Sensor*** (PIR sensor), is a device that measures infrared radiation (IR), or heat, from objects in its field of view. Because it only receives information, it is considered passive. The IR sensor views a human body as an IR generating object. The lens of the occupancy sensor breaks up the field of view into IR sensitive bands. The occupancy sensor is designed to only react when heat is sensed moving from band to band. For PIR occupancy sensors to work, the person must have direct "line of sight" to the PIR sensor and cross between bands.

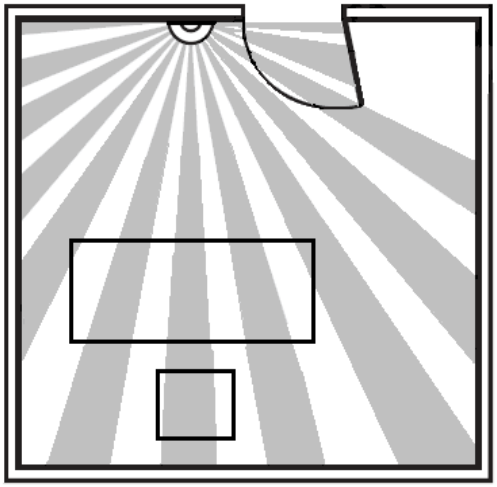
An ***Ultrasonic Sensors*** (US sensor) is a technology that works on a principle similar to radar or sonar. It is an active technology that sends and receives. It emits an inaudible high-frequency sound wave and evaluates the echo which is received back after bouncing around in the room. This allows the sensor to evaluate the whole room and can "look" over walls and obstructions to identify movement.

Both technologies show higher sensitivity closer to the sensor to allow small movements to be noticed. Sensitivity reduces further away from the sensor and may require a walking step to activate the sensor.

## PLACEMENT GUIDELINES
### WALL SENSOR

A ***Wall Switch Sensor*** provides a 180° coverage pattern, extending outward from the sensor. This will allow for instant turn ON when an occupant enters the space. Total area covered will be over 400 square feet.

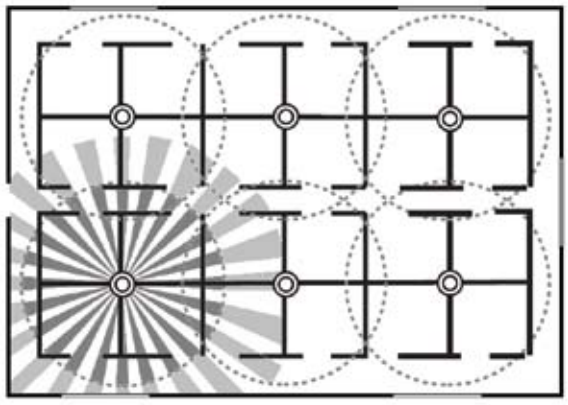
- Proper placement gives the sensor a clear line of sight to the entry door without viewing the hallway.
- The occupant must be able to see the sensor from their normal work position otherwise the sensor will not be able to detect their presence.
- For offices where there are other obstructions between the sensor and the occupant or the entry door, a ceiling sensor is required.

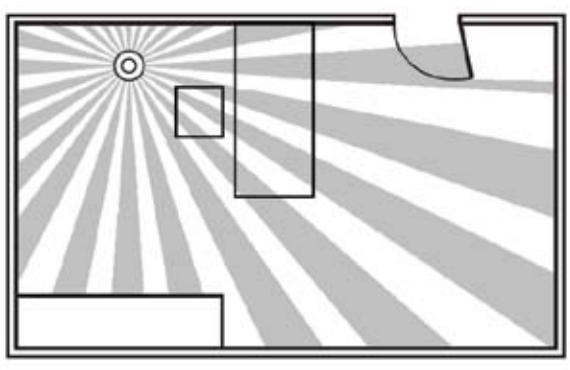


## PLACEMENT GUIDELINES
### CEILING SENSOR

A ***Ceiling Sensor*** provides a 360° coverage pattern of up to 1200 square feet when using passive infrared only. Barriers within the space that block line-of-sight to sensor detection will decrease coverage area when using passive infrared by itself, ultrasonic or dual technology will allow the sensor to get around the obstructions.

- Designed for ceiling mounting at a height of 8-10 feet (mounting sensor at greater heights decreases the sensitivity to motion, while lower mounting height will decrease range).
- The sensor needs a visually unobstructed view of the normally occupied workspace and entry door(s).
- Avoid sensor placement with a direct view out a doorway. Placing the sensor offset from the center and away from the door is recommended.
- If the occupant cannot see a PIR sensor from their normal work position, the sensor will not be able to detect their presence.
- File cabinets, partitions, or walls are typical types of obstructions. If there are other obstructions between the sensor and the occupant, an ultra-sonic or dual technology ceiling sensor is recommended.
- When the photo sensor is used, mount within 15 feet of the widows or skylight and avoid mounting the sensor close to lighting fixtures.
- Place the sensor no closer than 5 feet to an HVAC air duct when using dual technology sensors.
- Open office designs encourage placement of the sensors to allow overlapping coverage of small motion range and a clear view into each cubicle. Walking step motion may cover the entry to the space. Dual technology units provide added sensitivity to small motion.





# WOS SERIES
## PIR WALL SWITCH OCCUPANCY SENSOR



ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

- Offices areas
- Meeting rooms
- Equipment room & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
120VAC 50/60 Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 3 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
120V ¼ HP Motor.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is10 minutes.

**FLASH WARNING:** Optional load flicker 2 minutes before Off.

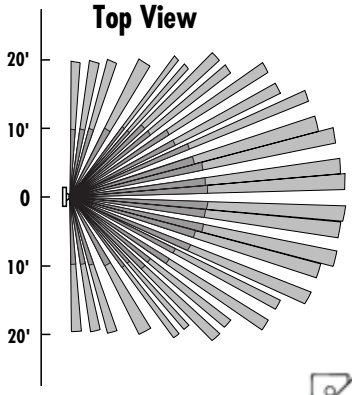
**TAMPER RESISTANT:** Captive button, rugged lens, and optional disable button function for public areas. Use in bathrooms to avoid manual off condition for occupant as another person leaves.

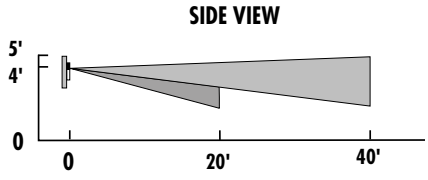
**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

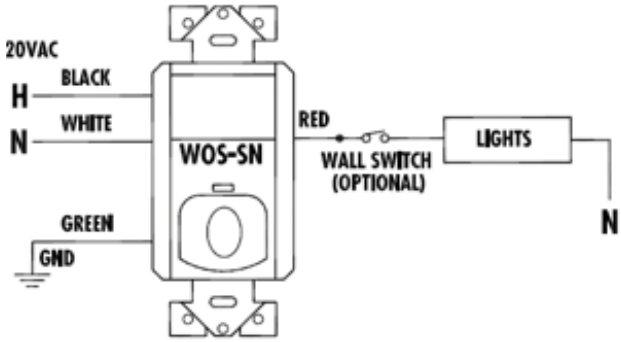
**COLOR:** White (single gang decorator wall plate included).

| CAT NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | WIRING |
|---|---|---|---|
| WOS-SN | 98213 | 120 | Requires Neutral |




180° Field of View



# WOS-M SERIES
## PIR WALL SWITCH OCCUPANCY SENSOR



responsible energy

ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

c UL us

- Offices areas
- Meeting rooms
- Equipment room & storage spaces
- New construction & retrofit

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60 Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
230V 1500W Electronic Ballast & LED.
277V 1800W Electronic Ballast & LED.
120V ¼ HP Motor.

| CAT. NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | WIRING |
|---|---|---|---|
| WOS-M | 98217 | 120/230/277 | No Neutral Required |
| WOS-MN | 98215 | 120/230/277 | Requires Neutral |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

**DAYLIGHT PHOTOSENSOR:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.

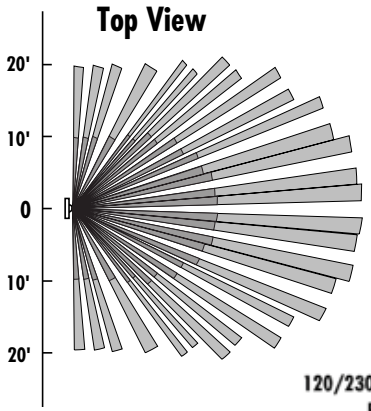
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

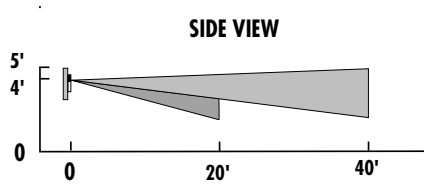
**TAMPER RESISTANT:** Captive button, rugged lens, and optional disable button function for public areas. Use in bathrooms to avoid manual off condition for occupant as another person leaves.

**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

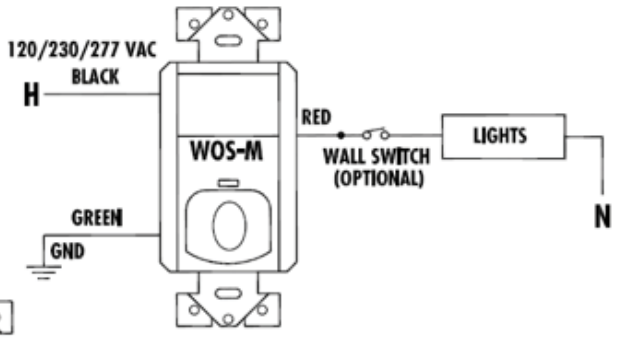
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

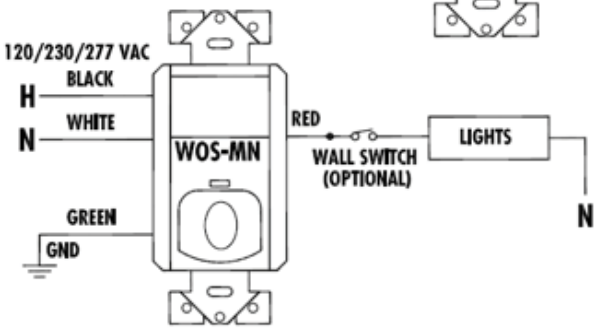
**COLOR:** White (single gang decorator wall plate included).




180° Field of View



# WOS-M2R SERIES
## PIR WALL SWITCH TWO RELAY OCCUPANCY SENSOR



responsible energy

ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

c UL us

- Offices areas
- Meeting rooms
- Equipment room & storage spaces
- New construction & retrofit

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60 Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
230V 1500W Electronic Ballast & LED.
277V 1800W Electronic Ballast & LED.
120V ¼ HP Motor.

| CAT. NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | WIRING |
|---|---|---|---|
| WOS-M2R | 98221 | 120/230/277 | No Neutral Required |
| WOS-MN2R | 98219 | 120/230/277 | Requires Neutral |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming. Each relay can have different settings.
- BATHROOM MODE: set fan relay time delay longer than lighting relay.
- TWO STEP LIGHT LEVEL: set each relay to turn off at different daylighting levels
- PUBLIC AREAS: Disable one relay button manual OFF function. Use in bathrooms to avoid full off condition for occupant as another person leaves.

**MODES:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Facto ry default setting is 10 minutes.

**DAYLIGHT PHOTOSENSOR:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.

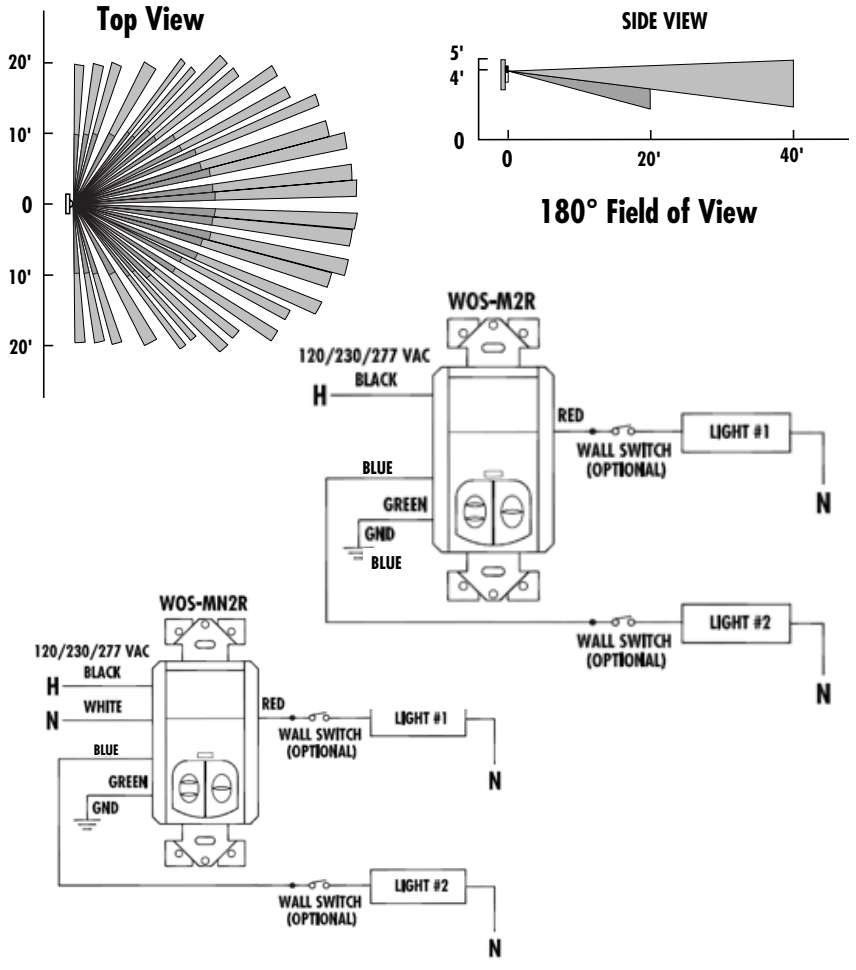
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

**TAMPER RESISTANT:** Captive button, rugged lens, and optional disable button function for public areas.

**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**COLOR:** White (single gang decorator wall plate included).



# WOS-MN2T SERIES
## ULTRASONIC AND PIR WALL SWITCH OCCUPANCY SENSOR



ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

- Offices areas
- Meeting rooms
- Equipment room & storage spaces
- New construction & retrofit

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60 Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C)

**COVERAGE:**
PIR 1200 sq. ft.
Ultra-Sonic 400 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast.
120V 5.8A LED.
230V 1500W Electronic Ballast.
277V 1800W Electronic Ballast.
120V ¼ HP Motor.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming. Each relay can have different settings.
- INITIAL ON: customize and set one technology only to trigger turn on.
- MAINTAIN ON: customize and set one technology to keep lights on.
- PUBLIC AREAS: Disable button manual OFF function. Use in bathrooms to avoid full off condition for occupant as another person leaves.

**MODES:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

**DAYLIGHT PHOTOSENSOR:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.

**FLASH WARNING:** Optional load flicker 2 minutes before Off.

**TAMPER RESISTANT:** Captive button, rugged lens, and optional disable button function for public areas.

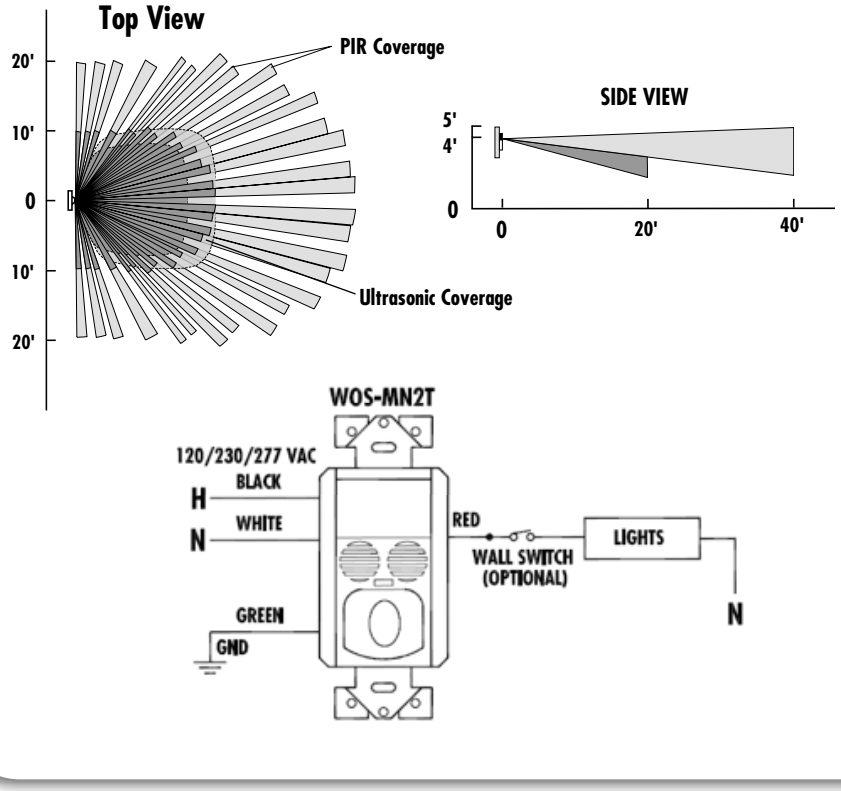
**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

**SENSOR CHOICES:** Factory default setting allows either technology to trigger the unit. Optional is a disable function of one technology for initial and/or maintain on operations.

**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**COLOR:** White (single gang decorator wall plate included).

| CAT. NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | WIRING |
|---|---|---|---|
| WOS-MN2T | 98223 | 120/230/277 | Requires Neutral |



# COS-L2T SERIES
## ULTRASONIC AND PIR CEILING MOUNTING OCCUPANCY SENSOR



ASHRAE 90.1

## APPLICATIONS

- Large offices areas
- Larger meeting rooms
- Classrooms
- Bathroom & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
24VDC.

**CURRENT CONSUMPTION:**
9mA.

**POWER SUPPLY:**
TPR-24I or TRP-24B Power Packs provided separately.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C)

**COVERAGE:**
PIR 1200 sq. ft.
Ultra-Sonic 900 sq. ft.

**WARRANTY:** 5 YRS.

| CAT. NO. | UPC CODE | INPUT SUPPLY | DESCRIPTION |
|---|---|---|---|
| COS-L2T | 98207 | 24VDC | White |
| TRP-24I | 98227 | 120/277VAC | Power Pack |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.
- INITIAL ON: customize and set one technology only to trigger turn on.
- MAINTAIN ON: customize and set one technology to keep lights on.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

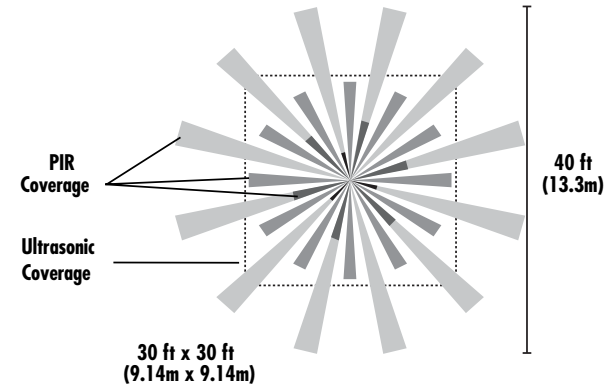
**COVERAGE AREA:** Adjustable for three steps of sensitivity for ultrasonic and two steps for PIR.

**SENSOR CHOICES:** Factory default setting allows either technology to trigger the unit. Optional disable function of one technology for initial and/or maintain on operations.

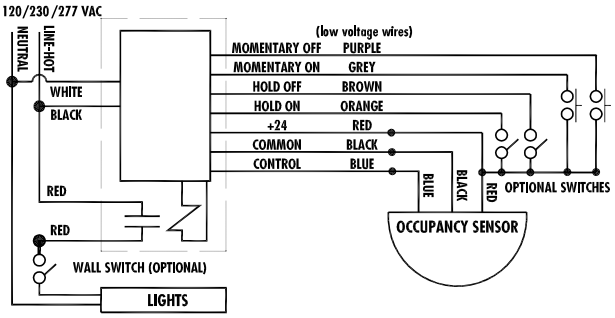
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**TRP OUTPUT:** TRP series is required to power the COS-L2T. A maximum of six Tork occupancy sensors may be connected.

**MOUNTING:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with ½" threaded nipple.




**TRP-24I POWER PACK**



# COS-L SERIES
## PIR CEILING MOUNTING OCCUPANCY SENSOR



ASHRAE 90.1

## APPLICATIONS

- Large offices areas
- Larger meeting rooms
- Classrooms
- Equipment room & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
24VDC.

**CURRENT CONSUMPTION:**
9mA.

**POWER SUPPLY:**
TPR-24I or TRP-24B Power Packs provided separately.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 5 YRS.

| CAT. NO. | UPC CODE | INPUT SUPPLY | DESCRIPTION |
|---|---|---|---|
| COS-L | 98203 | 24VDC | White |
| TRP-24I | 98227 | 120/277VAC | Power Pack |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

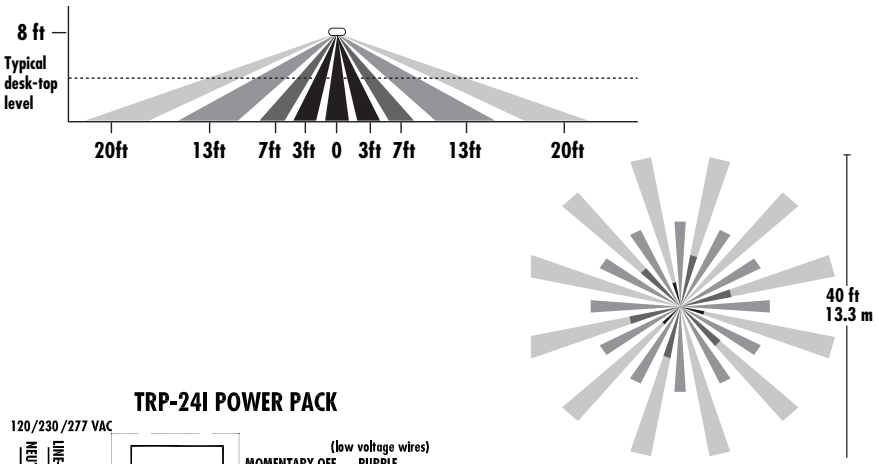
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

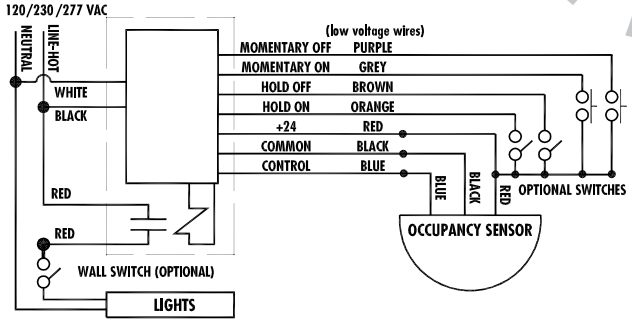
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**TRP OUTPUT:** TRP series is required to power the COS-L. A maximum of six Tork occupancy sensors may be connected.

**MOUNTING:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with ½" threaded nipple.




### TRP-24I POWER PACK



# COS-LU SERIES
## ULTRASONIC CEILING MOUNTING OCCUPANCY SENSOR



ASHRAE 90.1

## APPLICATIONS

- Large offices areas
- Larger meeting rooms
- Classrooms
- Bathroom & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
24VDC.

**CURRENT CONSUMPTION:**
9mA.

**POWER SUPPLY:**
TPR-24I or TRP-24B Power Packs provided separately.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 900 sq. ft.

**WARRANTY:** 5 YRS.

| CAT. NO. | UPC CODE | INPUT SUPPLY | DESCRIPTION |
|---|---|---|---|
| COS-LU | 98205 | 24VDC | White |
| TRP-24I | 98227 | 120/277VAC | Power Pack |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

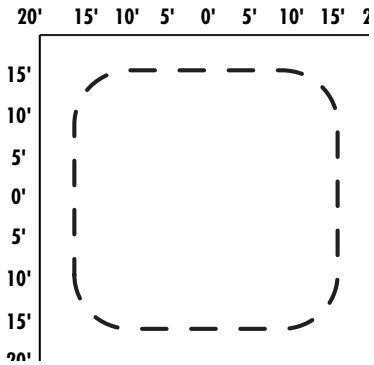
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

**COVERAGE AREA:** Adjustable for three steps of sensitivity.

**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

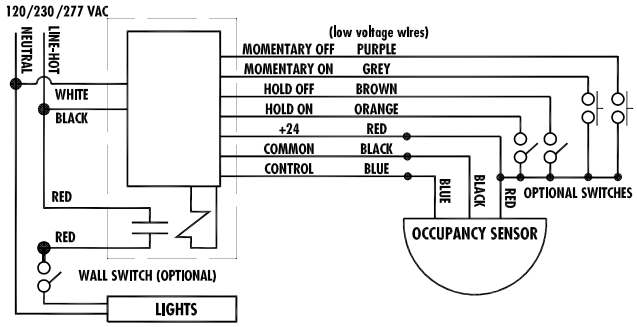
**TRP OUTPUT:** TRP series is required to power the COS-LU. A maximum of six Tork occupancy sensors may be connected.

**MOUNTING:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with ½" threaded nipple.




30 ft x 30 ft
(9.14m x 9.14m)

### TRP-24I POWER PACK



# COS-M SERIES
## PIR CEILING MOUNTING
## LINE VOLTAGE
## OCCUPANCY SENSOR



responsible energy

ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

- Large offices areas
- Larger meeting rooms
- Classrooms
- Equipment room & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60Hz.

**POWER SUPPLY:**
Built-in.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
230V 1500W Electronic Ballast & LED.
277V 1800W Electronic Ballast & LED.
120V ¼ HP Motor.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

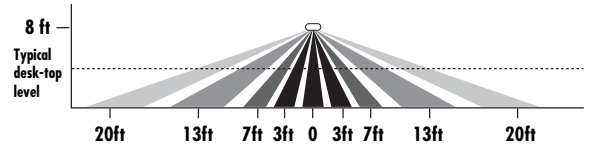
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

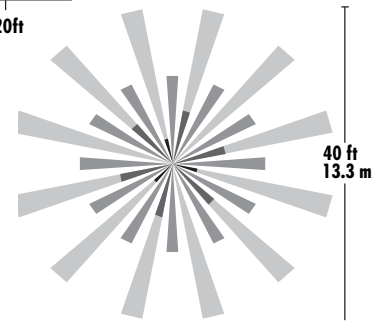
**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

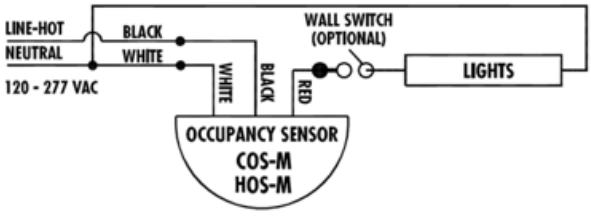
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**MOUNTING:** Mounts direct to a box. Available is optional adapter for pendant or side mounting with ½" threaded nipple.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) | DESCRIPTION |
|---|---|---|---|
| COS-M | 98201 | 120/230/277 | White |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |



# HOS-M SERIES
## HIGH BAY PIR MOUNTING LINE VOLTAGE OCCUPANCY SENSOR



responsible energy

ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

- Warehouse
- Tall aisle
- High ceiling equipment room & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60Hz.

**POWER SUPPLY:**
Built-in.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1000 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
230V 1500W Electronic Ballast & LED.
277V 1800W Electronic Ballast & LED.
120V ¼ HP Motor.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

**FLASH WARNING:** Optional load flicker 2 minutes before Off.

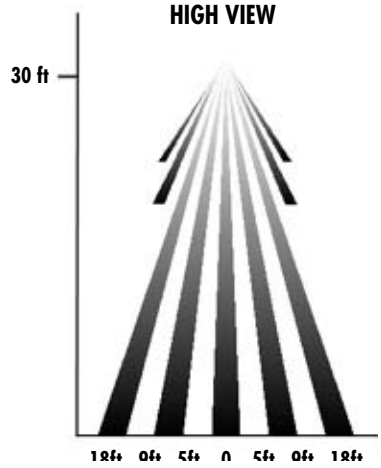
**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

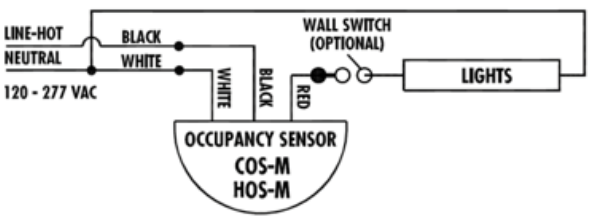
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**MOUNTING:** Includes as standard an adapter for pendant or side mounting with ½" threaded nipple. Also mounts direct to box or ceiling.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) | DESCRIPTION |
|---|---|---|---|
| HOS-M | 98209 | 120/230/277 | White |

**HIGH VIEW**



# CPS-L SERIES
## CEILING MOUNTING PHOTO SENSOR



ASHRAE 90.1

## APPLICATIONS

- Side window areas of offices
- Spaces with skylights
- Classrooms

## SPECIFICATIONS

**VOLTAGE:**
24VDC.

**CURRENT CONSUMPTION:**
9mA.

**POWER SUPPLY:**
TPR-24B Power Packs provided separately.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**WARRANTY:** 5 YRS.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

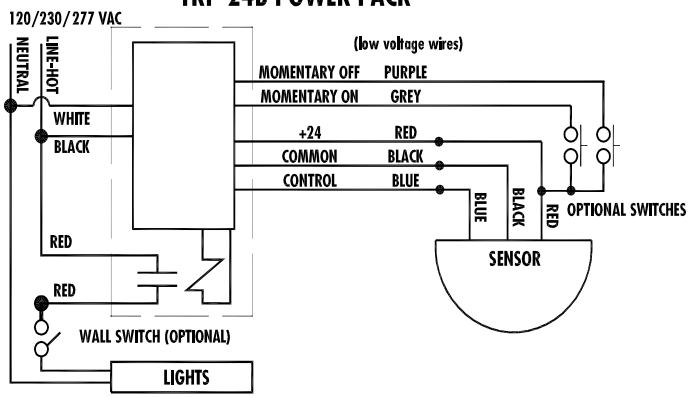
**LIGHT LEVEL SETTING:** Light level between 5 to 200 fc.

**TRP OUTPUT:** TRP series is required to power the CPS-L. A maximum of 12 Tork power packs may be connected.

**MOUNTING:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with ½" threaded nipple.

| CAT. NO. | UPC CODE | INPUT SUPPLY | DESCRIPTION |
|---|---|---|---|
| CPS-L | 98211 | 24VDC | White |
| TRP-24B | 98225 | 120/277VAC | Power Pack |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |

### TRP-24B POWER PACK




TORK OCCUPANCY SENSORS

# TRP-24 SERIES
## POWER PACK FOR OCCUPANCY SENSORS



ASHRAE 90.1

## APPLICATIONS

- Power and switching for occupancy or light sensors
- Power and switching for SS410 auto-off switch
- BAS compatible
- Demand shedding applications
- Low cost momentary switching of loads

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 15A Incandescent.
120/230277V 20A Ballast.
120V 1 HP Motor.

| CAT. NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| TRP-24B | 98225 | 120/230/277 | SPST |
| TRP-24I | 98227 | 120/230/277 | SPST |
| LCS115M | 82082 | Momentary Switch SPST | |

## FEATURES

**OPERATION:** Switches line voltage loads ON/OFF based on a contact closure from an occupancy sensor, AUTO OFF switch, or relay.

**SENSOR CONTROL:** Three wires for typical device control. Red and black wires for 24VDC output to power a device. Blue control wire to receive ON/OFF signal back from device.

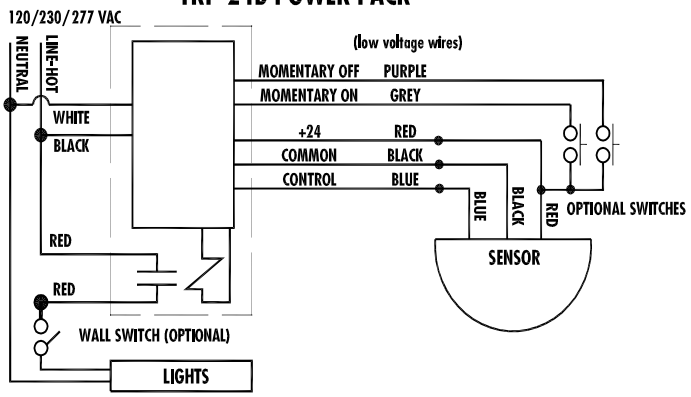
**TRP-24B INPUT:** Two additional input wires to control TRP.
1. ON from momentary switch.
2. OFF from momentary switch.

**TRP-24I INPUT:** Four additional input wires to control TRP.
1. Hold OFF for demand shed control.
2. Hold ON override.
3. ON from momentary switch.
4. OFF from momentary switch.

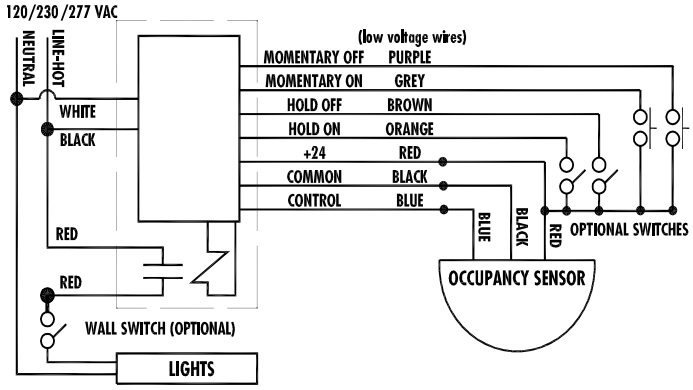
**TRP OUTPUT:** TRP series is a Class 2 Power Supply with 150mA output. A maximum of six Tork COS-L type occupancy sensors may be connected.

**MOUNTING:** Box mount to ½" KO.

### TRP-24B POWER PACK




### TRP-24I POWER PACK








# TORK® IN-WALL TIME SWITCHES

# QUICK REFERENCE GUIDE

| | SS700Z | SS721Z | SS720A | SS720Z | SA170 | 701A<br>711A |
|---|---|---|---|---|---|---|
| Page No. | 509 | 509 | 511 | 512 | 513 | 514 |
| Timer Type | SunSet<br>7 Day<br>Digital | SunSet<br>7 Day<br>Digital | 7 Day<br>Digital | SunSet<br>7 Day<br>Digital | ZipSet<br>Digital | 24 Hour<br>Mechanical |
| Voltage | 120/277 | 120/277 | 120 | 120 | 120 | 120 |
| Minimum Settings ON | 1 min. | 1 min. | 1 min. | 1 min. | 1 min. | 30 min. |
| Minimum Settings OFF | 1 min. | 1 min. | 1 min. | 1 min. | 1 min. | 30 min. |
| Manual Override | Yes | Yes | Yes | Yes | Yes | Yes |
| SunSet (Astronomic) | Yes | Yes | | Yes | ZipSet | |
| ON/OFF Set Points | 10 Pair | 10 Pair | 7 Pair | 7 Pair | 1 Pair | 24 |
| Flash Warning | | | | | | |
| Audible Warning | | | | | | |
| Power Outage Backup | Capacitor | Capacitor | Battery | Battery | Battery | |
| Switch Type | SPST | SPST | SPST | SPST | SPST | SPST |
| Resistive Ratings | 16A | 16A | 15A | 15A | 15A | 15 & 20A |
| LED Ratings | 10A | 10A | | | | |
| Neutral Required for Wiring | No | Yes | Yes | Yes | Yes | Yes |
| 3-Way Wiring | Yes | Yes | No | No | No | No |

| SS403 | SS423 | SS410 | SS | D1060 D212 | A | C |
|---|---|---|---|---|---|---|
| 515 | 515 | 515 | 517 | 518 | 519 | 520 |
| Auto OFF<br>Digital | Auto OFF<br>Digital | Auto OFF<br>Digital | Auto OFF<br>Electronic | Auto OFF<br>Electronic | Auto OFF<br>Mechanical | Auto OFF<br>Mechanical |
| 120/277 | 120/277 | 24 | 24/120/<br>208-240/277 | 120 | 125/250/<br>277 | 125/250/<br>277 |
| 5 min-24 hr | 5 min-24 hr | 5 min-24 hr | 1 min-18 hr | 10-60 min.<br>2-12 hr | Various<br>2 min-12 hr | Various<br>2 min-12 hr |
| 5 min. | 5 min. | 5 min. | 1 min. | 10 min. | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Yes | Yes | Yes | Yes | | | |
| Yes | Yes | Yes | Yes | | | |
| | | | | | | |
| SPST | SPST | SPDT | SPST or SPDT | SPST | SPDT | SPDT or DPST |
| 15A | 15A | 1A | 4A or 7.5A | 15A | 20/10/10A | 20/10/10A |
| 1200W | 1200W | | | | | |
| No | Yes | Yes | No | Yes | No | No |
| Yes | Yes | Yes | SS13<br>Yes | No | No | No |

# TORK® SS700Z & SS721Z

## SunSet IN-WALL TIMER

### SUNSET / SUNRISE / 7 DAY



With wall plate (not included)

LISTED FOR LED

ASHRAE 90.1

**BACK-UP WITHOUT BATTERIES!**

## APPLICATIONS

- Commercial outdoor security lighting
- Interior lobby lighting
- Contactors for fans and motors
- Sign lighting

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:** 120/277VAC, 50/60Hz.

**WIRE SIZE:** #12AWG input/output - #16AWG 3-way (remote).

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to + 40 °C).

## FEATURES

**SCHEDULING:** 10 ON and OFF pairs of set points for individual programs on each day of the week. 11 day groups speed programming. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Sunset and sunrise times are adjustable from 10°-60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes for earlier or later operation.

**RANDOM MODE:** Varies ON and OFF times to create lived in look when away.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**MANUAL MODE:** Does not run programs until set to AUTO (automatic) mode.

**VACATION MODE:** No operation when away.

**EASY WIRING:**
**SS700Z** does not require a neutral, can be used as a 3-way switch.

**SS721Z** Requires a neutral, can be used as a 3-way switch.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 2 days of real time backup.

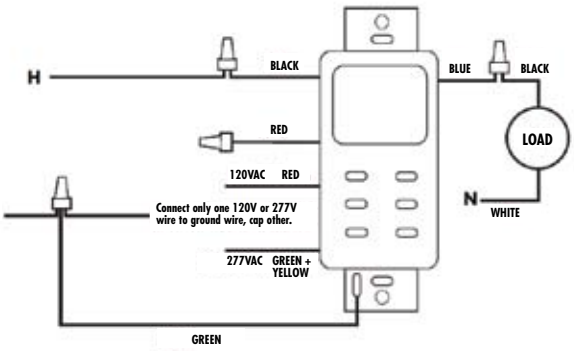
**COMMERCIAL GRADE SPECS:** Control lighting contactors and 277VAC loads. Compatible with CFL lamps.

**FULL SWITCHING:** No minimum load requirement.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | SWITCH TYPE | COLOR |
|---|---|---|---|---|
| SS700Z | 14019 | 120/277 | SPST | White |
| SS700ZA | 14020 | 120/277 | SPST | Light Almond |
| SS721Z | 14027 | 120/277 | SPST | White |
| SS721ZA | 14028 | 120/277 | SPST | Light Almond |

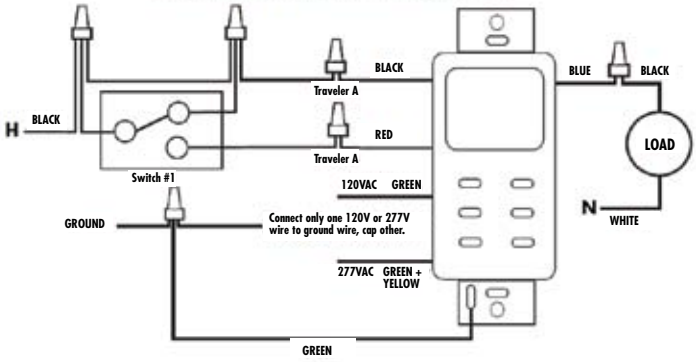
| TYPE | SS700Z SERIES RATING | VOLTAGE (VAC) | SS721Z SERIES RATINGS |
|---|---|---|---|
| Resistive | 16A | 120-277 | 16A |
| Ballast | 10A | 120-277 | 13A |
| LED Driver | 10A | 120-277 | 10A |
| Tungsten | 8A | 120 | 8A |
| Pilot Duty | 360VA | 120 | 720VA |
| Motor | 1/2HP | 120 | 1/2HP |

**SS700Z**

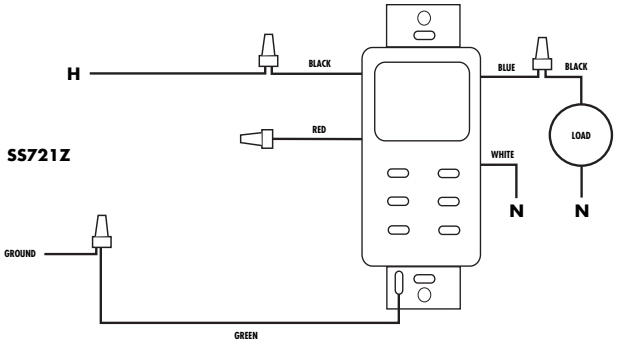



Connect a wire inside the gang-box between Traveler A and Hot.

**SS700Z**

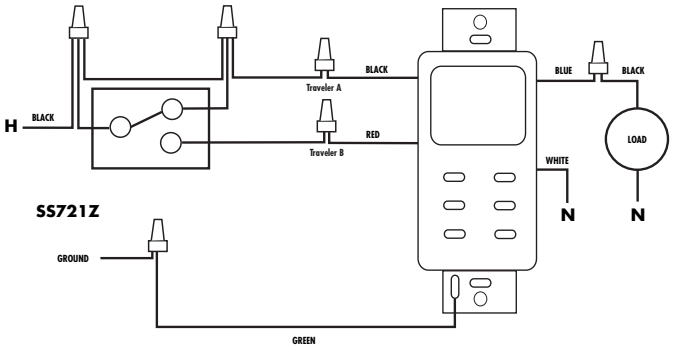



**SS721Z**




Connect a wire inside the gang-box between Traveler A and Hot.

**SS721Z**



# SS720A SERIES
## 7 DAY IN-WALL RESIDENTIAL TIMER



## APPLICATIONS

- Residential Interior lights
- Random for lived-in look
- Small fans and motors
- Appliances

## SPECIFICATIONS

**TIMING ACCURACY:** +/- 1 minute/month

**INPUT VOLTAGE:** 125VAC, 60Hz.

**WIRE SIZE:** #14AWG.

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to +40 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR |
|---|---|---|---|
| SS720A | 14017 | 120 | White |
| SS720AA | 14018 | 120 | Light Almond |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120 | 15A |
| Resistive | 120 | 15A |
| Tungsten | 120 | 15A |
| Motor | 120 | 1HP |
| Electronic Ballast | 120 | 500VA |

## FEATURES

**SCHEDULING:** 7 ON and OFF pairs of set points for individual programs on each day of the week. Minimum setting is 1 minute.

**RANDOM MODE:** Varies ON and OFF times to create "lived in" look when away.

**DAYLIGHT SAVING:** Manual button push for one hour adjustment.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

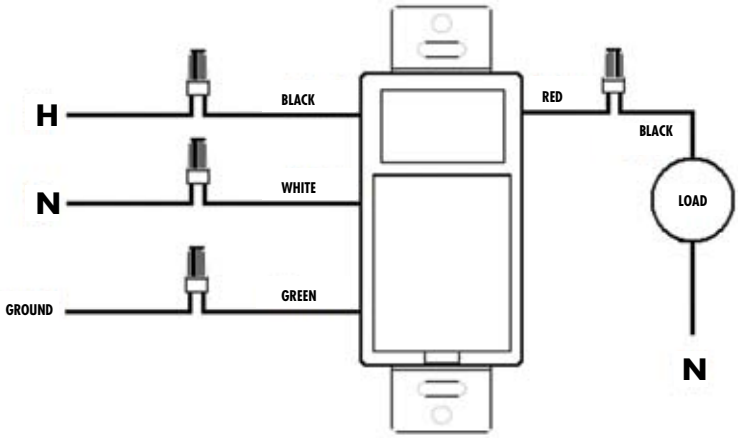
**WIRING:** Requires a neutral.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Rechargeable Ni-Cad battery retains time and schedule.

**WALL PLATE:** Supplied with standard single gang decorator wall plate.

### SS720A SERIES



# SS720Z

## SunSet IN-WALL RESIDENTIAL TIMER

### SUNSET / SUNRISE / 7 DAY



## APPLICATIONS

- Residential Interior lights
- Small fans and motors
- Appliances

## SPECIFICATIONS

**TIMING ACCURACY:** +/- 1 minute/month

**INPUT VOLTAGE:** 120VAC, 60Hz.

**WIRE SIZE:** #14AWG

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to + 40 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR |
|---|---|---|---|
| SS720Z | 14023 | 120 | White |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120 | 15A |
| Resistive | 120 | 15A |
| Tungsten | 120 | 960W |
| Motor | 120 | ½HP |
| Electronic Ballast | 120 | 500VA |

## FEATURES

**SCHEDULING:** 7 ON and OFF pairs of set points for individual programs on each day of the week. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Sunset and sunrise times with five zones: North USA/Southern Canada, Central USA, South USA, Northern Canada/ Alaska, and Hawaii/Puerto Rico.

**RANDOM MODE:** Varies ON and OFF times to create "lived in" look when away.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

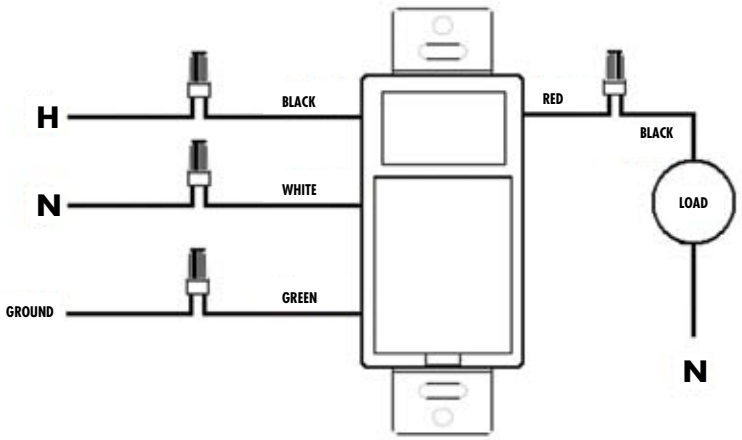
**WIRING:** Requires a neutral.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Rechargeable Ni-Cad battery retains time and schedule.

**WALL PLATE:** Supplied with standard single gang decorator wall plate.

### SS720Z



# SA170 SERIES
## Zip-Set™ IN-WALL RESIDENTIAL TIMER
## SUNSET / TIME OFF



*Wall plate not included

## APPLICATIONS

- Residential Exterior lights
- Small fans and motors
- Appliances

## SPECIFICATIONS

**TIMING ACCURACY:** +/- 1 minute/month

**INPUT VOLTAGE:** 120VAC, 60Hz.

**WIRE SIZE:** #14AWG.

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to +40 °C).

| | CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR |
|---|---|---|---|---|
| NEW! | SA170 | 16528 | 120 | White |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| Resistive | 120 | 15A |
| Inductive | 120 | 15A |
| Tungsten | 120 | 5A |
| Motor | 120 | 1/2 HP |

## FEATURES

Zip-Set™ factory preset time. Just enter area code and it finds correct time and sunset time.

**SCHEDULING:** One On/Off set point pair is active at a time. Schedule 1, Schedule 2, a combination of 1 & 2, or ZipSet™. Day combinations for 7-5-2 speed programming.

**RANDOM MODE:** Varies ON and OFF times to create "lived in" look when away.

**COUNTDOWN:** Button press turns lights ON and starts a 5 minute countdown to OFF.

**DAYLIGHT SAVING:** Manual button push for one hour adjustment.

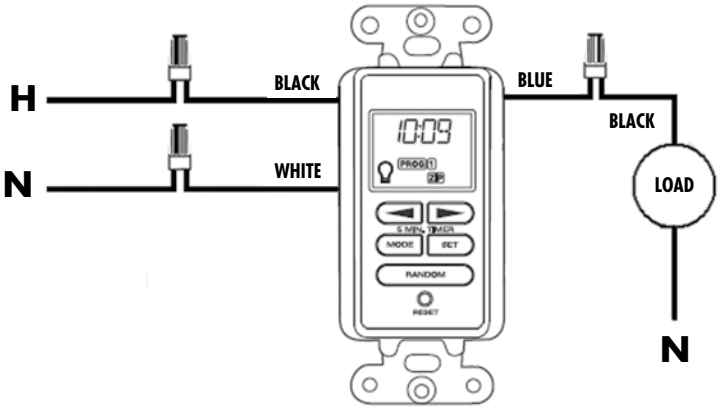
**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**WIRING:** Requires a neutral.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Lithium batteries retain time and schedule.

## SA170 SERIES



# 701A & 711A SERIES
## 24 HOUR IN-WALL TIMER




## APPLICATIONS

- Porch or patio
- Doorway
- Pool
- Outdoor security lighting

## SPECIFICATIONS

**INPUT VOLTAGE:** 125VAC, 60Hz.

**WIRE SIZE:** #14AWG.

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to +40 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR |
|---|---|---|---|
| 701A | 10113 | 125 | White |
| 701AA | 10118 | 125 | Light Almond |
| 711A | 10114 | 125 | White |

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | 701A SERIES | 711A SERIES |
| General Purpose | 125 | 20A | 15A |
| Resistive | 125 | 20A | 15A |
| Tungsten | 125 | 1500W | 1250W |
| Motor | 125 | 1 HP | 1/2 HP |
| Electronic Ballast | 125 | 500VA | - |

## FEATURES

**SCHEDULING:** Minimum ON setting is 30 minutes. Dial has 48 captive trippers.

**BYPASS SWITCH:** Slide switch for ON, OFF, or TIMER (automatic) operation.

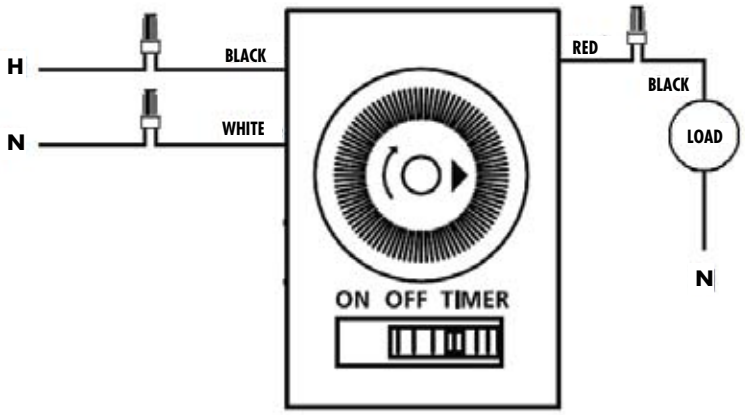
**VACATION MODE:** Set timer OFF with no change of tripper settings.

**WIRING:** Requires a neutral.

**CLOCK FORMAT:** AM/PM marked on dial.

**WALL PLATE:** Supplied with single gang wallplate.

## 701A & 711A



# SS400 SERIES
## DIGITAL AUTO OFF IN-WALL TIMER



responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

LISTED FOR LED

**PROGRAMMABLE!**

SS400 Series
*Wall plate included

## APPLICATIONS

c UL us

- Offices, meeting rooms
- Energy code timed override
- Exhaust fans
- Equipment room and storage spaces

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency

**INPUT VOLTAGE:** SS403/SS423 – 120/230/277VAC 50/60 Hz
SS410 – 24VDC OR 24VAC 50/60 Hz

**WIRE SIZE:** SS403/SS423 – #14AWG input/output - #16AWG 3-way (remote)
SS410 – #18AWG

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to + 40 °C)

**WARRANTY:** 5 Yrs.

## FEATURES

**WIRING CHOICES:**
SS403 – no neutral for retrofit
SS423 – with neutral for new construction
SS410 – multiple circuits with power packs
– low voltage for class 2 wiring

**ENERGY CODE PRESET:** 2 hour timing for Title 24 and IECC (default). 4 hour timing for ASHRAE 90.1 (with quick dip switch adjustment)

**PROGRAMMABLE:** 5 minutes to 24 hour:
5 minute steps from 5 minutes to 1 hour. 10 minute steps from 1 to 4 hours. 30 minute steps from 4 to 12 hours. 1 hour steps from 12 to 24 hours.

**SCROLL LOCK:** Limits user adjustment to a maximum equal to the preset time.

**FLASH WARNING:** Optional one second flicker turns load off/on 2 minutes before end of time cycle.

**BEEPER WARNING:** Optional beep will sound every 15 seconds during the last 2 minutes of the time cycle.

**TAMPER RESISTANT:** Wall plate locks access to dip switch adjustments.

**MANUAL OPERATION:** Start or stop countdown from timer or remote switch.

**THREE-WAY & MULTI-WAY:** Three-way compatible with existing switch. Multi-way requires momentary switches at the additional locations. Maximum distance 100 feet.

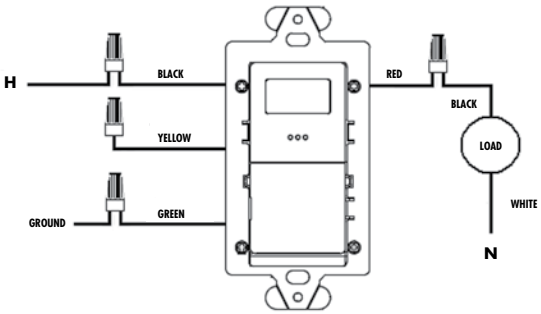
**DISPLAY:** Backlit LCD Display.

**COLOR:** White (single gang decorator wall plate included).

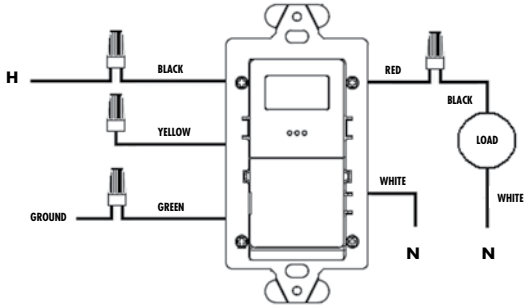
| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | SWITCH TYPE | COLOR |
|---|---|---|---|---|
| SS403 | 14029 | 120/230/277 | SPST | White |
| SS423 | 14030 | 120/230/277 | SPST | White |
| SS410 | 14033 | 24VDC or 24VAC | SPDT | White |

| TYPE | VOLTAGE | SS403 RATING | VOLTAGE (VAC) | SS423 RATING |
|---|---|---|---|---|
| Resistive | 120-277VAC | 15A | 120-277 | 15A |
| Ballast | 120-277VAC | 10A | 120-277 | 13A |
| LED Lamp Driver | 120-277VAC | 1200W | 120-277 | 1200W |
| Tungsten | 120VAC | 8A | 120 | 8A |
| Pilot Duty | 120VAC | 360VA | 120-277 | 720VA |
| Motor | 120VAC | 1/4HP | 120-277 | 1HP |
| | | SS410 | | |
| VOLTAGE | RATING | | VOLTAGE (VAC) | RATING |
| 28VDC | .5A Max | | 24 | 1A Max |
| Minimum Load 1ma @ 5V | | | | |

**SS403**

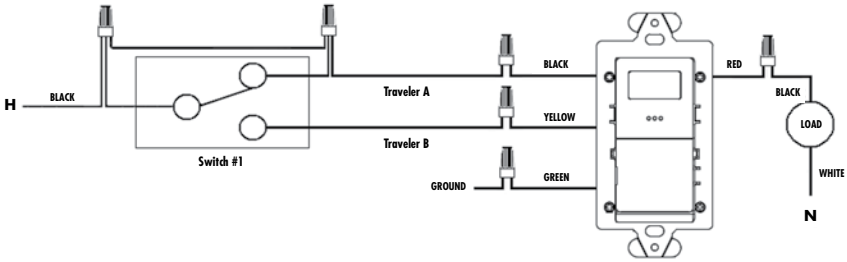



**SS423**



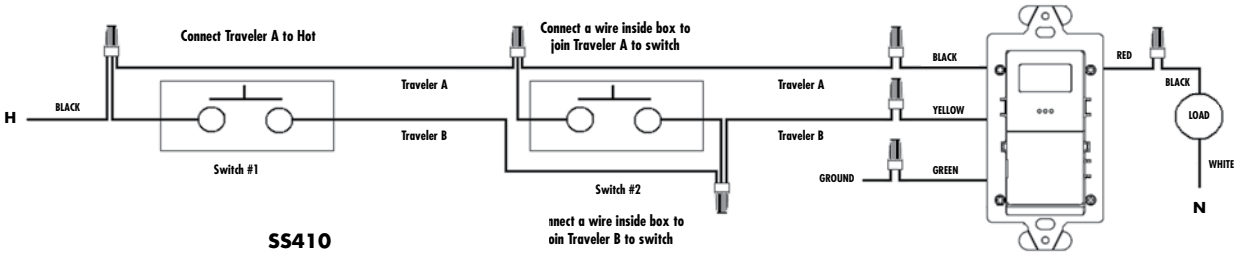

**SS403 Wiring for 3-Way**

Connect a wire inside the gang-box between Traveler A and Hot.

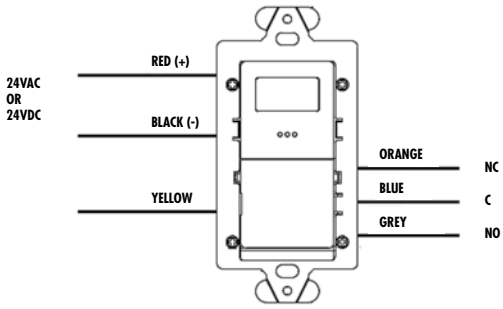



**SS403 Wiring for 4-Way**

Use mometary switches at all additional locations.
TORK #LCS115M

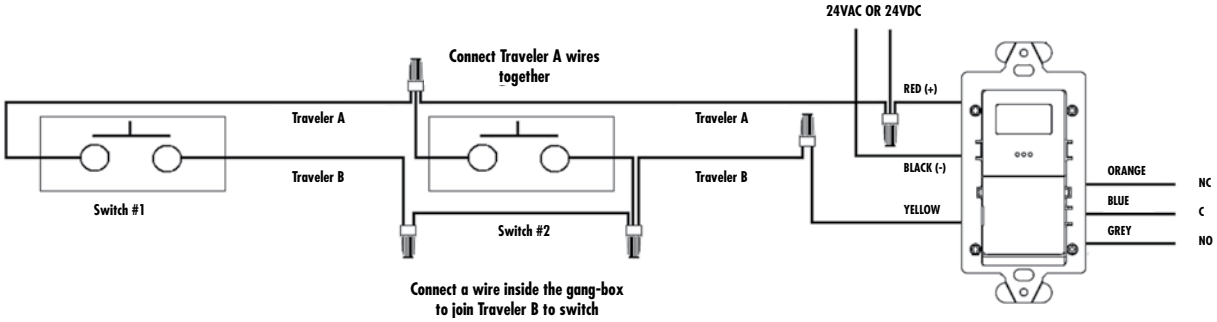



**SS410**




**SS410 Wiring for 4-Way**

Use mometary switches at all additional locations.
TORK #LCS115M




Connect a wire inside the gang-box
to join Traveler B to switch

# SS SERIES
## AUTO OFF
## IN-WALL TIMER



## APPLICATIONS

- Bathroom fans and lights
- Indoor/Outdoor lighting
- Storage areas
- Hospitality areas

## SPECIFICATIONS

**TIMING ACCURACY:**
±5% @ 60° to 80°F.

**INPUT VOLTAGE:**
24/120/208-240/277VAC, 50/60Hz.

**WIRE SIZE:** #18AWG.

**OPERATING TEMPERATURE:**
0 °F to +100 °F (-17 °C to +37 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | WARNING BEFORE TIME OUT | SWITCH TYPE |
|---|---|---|---|---|
| SS20 | 14005 | 24/120/208-240/277 | None | Single pole |
| SS20F | 14008 | 24/120/208-240/277 | *Flicker | Single pole |
| SS13F | 14007 | 24/120/208-240/277 | *Flicker | 3-way |
| SS13B | 14006 | 24/120/208-240/277 | **Beep | 3-way |

*Flicker feature turns load OFF for ½ second, 2 minutes before end of timed cycle and again 1 minute before end of timed cycle.
**Beep feature will begin a ½ second audible warning every 12 seconds during the last 2 minutes of timed cycle.

| TYPE | CONTACT RATINGS | MINIMUM LOAD VOLTS | MINIMUM LOAD WATTS |
|---|---|---|---|
| SS13F & SS13B | .25-4.0A Resistive | 24 | 6 |
| | .25-4.0A Ballast* | 120 | 30 |
| | .25-4.0A Tungsten | 208 | 50 |
| | 1/8 HP @ 120VAC | 240 | 60 |
| | 1/3 HP @ 240VAC | 277 | 70 |
| SS20 & SS20F | .50-7.25A Resistive | 24 | 12 |
| | .50-7.25A Ballast* | 120 | 60 |
| | .50-4.0A Tungsten | 208 | 105 |
| | 1/6 HP @ 120VAC | 240 | 120 |
| | 1/2 HP @ 240VAC | 277 | 150 |

*Not compatible with compact fluorescent lamps (CFL) and electronic fluorescent ballasts.

## FEATURES

**VARIABLE TIMING:** Choose from 1 minute to 18 hours.

**FLASH WARNING:** "F" suffix models with flicker feature turns load off for 1/2 second, 2 minutes before end of timed cycle and again 1 minute before end of timed cycle.

**AUDIBLE WARNING:** "B" suffix model will buzz that every 12 seconds during the last 2 minutes of timed cycle.

**TAMPER RESISITANT:** Time ON interval preset is hidden behind wall plate.

**EASY SET:** Small screw driver adjustment provides quick set-up of timing.

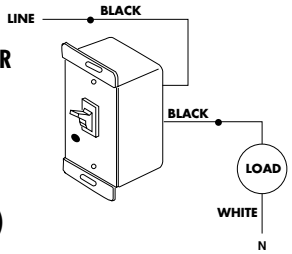
**EASY WIRING:** No neutral needed, great for retrofit.

**3-WAY:** SS13 SERIES replaces standard 3-way switch with no re-wiring.

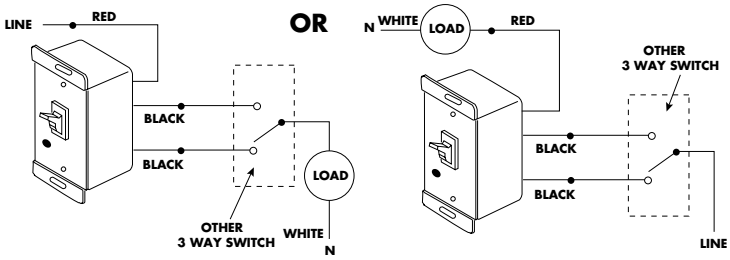
**COLOR:** White.

**SS SERIES**

**TYPICAL WIRING FOR 120 VAC SINGLE POLE**




**TYPICAL WIRING FOR 120 VAC – 3 WAY (Red is common)**



# D SERIES
## ELECTRONIC AUTO OFF IN-WALL TIMER




## APPLICATIONS

- Whole house fans
- Indoor/Outdoor lighting
- Bathroom fans and lights
- Self storage

## SPECIFICATIONS

**TIMING ACCURACY:** Line voltage.

**INPUT VOLTAGE:** 120VAC, 60Hz.

**WIRE SIZE:** #14AWG.

**OPERATING TEMPERATURE:** 32 °F to 122 °F (0 °C to 50 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | TIME SETTINGS | OUTPUT CONTACTS |
|---|---|---|---|---|
| D212H | 14021 | 120 | Ivory | 2, 4, 8, 12 HOURS |
| D212HA | 14022 | 120 | Light Almond | 2, 4, 8, 12 HOURS |
| D212HW | 14023 | 120 | White | 2, 4, 8, 12 HOURS |
| D1060M | 14025 | 120 | Ivory | 10, 20, 30, 60 MINUTES |
| D1060LA | 14024 | 120 | Light Almond | 10, 20, 30, 60 MINUTES |
| D1060MW | 14025 | 120 | White | 10, 20, 30, 60 MINUTES |

## FEATURES

**VARIABLE TIMING:**
Button push changes time ON setting.

**D1060M:** 10, 20, 30, 60 minute.
**D212H:** 2, 4, 8, 12 hour.

**LED DISPLAY:** Indicator moves to new range as timer counts down.

**TAMPER RESISTANT:** Time ON interval preset.

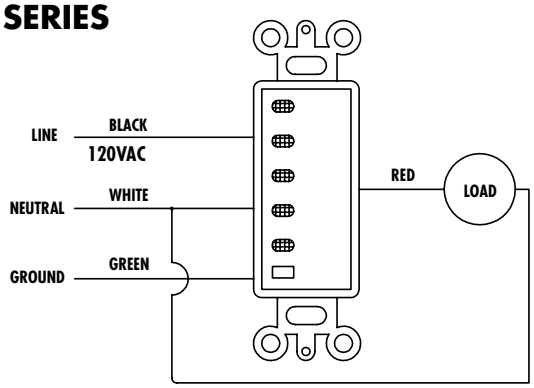
**EASY SET:** No adjustments, just wire and go!

**WIRING:** Requires a neutral.

**THREE COLORS:** Ivory, Light Almond, White.

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120 | 15A |
| Resistive | 120 | 1000W |
| Tungsten | 120 | 1000W |
| Motor | 120 | 1/4 HP |
| Ballast | 120 | 1000VA |

### D SERIES



# A SERIES
## SPRINGWOUND AUTO OFF IN-WALL TIMER



*Wallplate not included

**NEW!**
**SPDT, 2 IN 1 CONTACTS**

## APPLICATIONS

- Whole house fans
- Indoor/Outdoor lighting
- Bathroom fans and lights
- Self storage

## SPECIFICATIONS

**INPUT VOLTAGE:**
125/250/277VAC, 50/60Hz.

**TERMINAL SIZE:** #12AWG.

**OPERATING TEMPERATURE:**
32 °F to 122 °F (0 °C to 50 °C).

| CAT. NO. | UPC CODE | HOLD FEATURE | COLOR |
|---|---|---|---|
| **15 MINUTE MAX.** | | | |
| A515MH | 15020 | With Hold | Ivory |
| A515MHW | 15120 | | White |
| A515M | 15013 | No Hold | Ivory |
| A515MW | 15113 | | White |
| A515MA | 15127 | | Light Almond |
| **30 MINUTE MAX.** | | | |
| A530MH | 15021 | With Hold | Ivory |
| A530MHW | 15121 | | White |
| A530M | 15014 | No Hold | Ivory |
| A530MW | 15114 | | White |
| A530MA | 15128 | | Light Almond |
| **60 MINUTE MAX.** | | | |
| A560MH | 15022 | With Hold | Ivory |
| A560MHW | 15122 | | White |
| A560M | 15015 | No Hold | Ivory |
| A560MW | 15115 | | White |
| **2 HOUR MAX.** | | | |
| A502HHW | 15123 | With Hold | White |
| A502H | 15016 | No Hold | Ivory |
| A502HW | 15116 | | White |
| **6 HOUR MAX.** | | | |
| A506HHW | 15125 | With Hold | White |
| A506H | 15018 | No Hold | Ivory |
| A506HW | 15118 | | White |
| **12 HOUR MAX.** | | | |
| A512HH | 15026 | With Hold | Ivory |
| A512HHW | 15126 | | White |
| A512H | 15019 | No Hold | Ivory |
| A512HW | 15119 | | White |

## FEATURES

**VARIABLE TIMING:** Twist knob for time ON setting. Time ON lengths from 15 minutes to 12 hour vary by model.

**HOLD FEATURE:** Some models have position for constant ON.

**EASY SET:** No adjustments. Just wire and go!

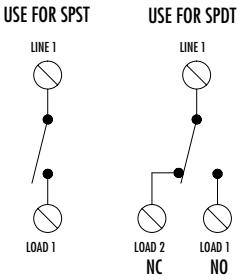
**EASY WIRING:** No neutral required. Great for retrofit! Use as single or in multi-gang box with no de-rating.

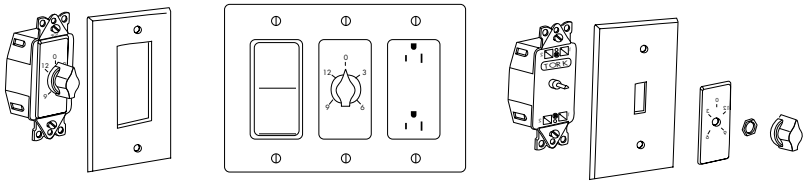
**SWITCH TYPE:** SPDT "2 in 1" contacts wire has SPST also. Can wire as normally on and countdown while off.

**COLOR:** Ivory, Light Almond, White.

**WALL PLATE:** Fits standard or decorator style wall plates, see below (not included).

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| Resistive | 125<br>250<br>277 | 20A<br>10A<br>10A |
| Inductive | 125<br>250<br>277 | 20A<br>10A<br>10A |
| Tungsten | 125 | 7A |
| Motor | 125<br>250 | 1HP<br>2HP |



CAUTION: This timer is not to be used in precision timing applications where inaccurate timing could have dangerous consequences (i.e. sun lamp, sauna, etc.).

# C SERIES
## COMMERCIAL STYLE SPRINGWOUND AUTO OFF IN-WALL TIMER




*Wallplate included

**NEW! SPDT, 2 IN 1 CONTACTS**

## APPLICATIONS

- Ventilating fans
- HVAC
- Whirlpools
- Self storage
- Motors and pumps

## SPECIFICATIONS

**INPUT VOLTAGE:** 125/250/277VAC, 50/60Hz.

**TERMINAL SIZE:** #12AWG.

**OPERATING TEMPERATURE:** 32 °F to 122 °F (0 °C to 50 °C).

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| Resistive | 125<br>250<br>277 | 20A<br>10A<br>10A |
| Inductive | 125<br>250<br>277 | 20A<br>10A<br>10A |
| Tungsten | 125 | 7A |
| Motor | 125<br>250 | 1HP<br>2HP |

## FEATURES

**VARIABLE TIMING:** Twist knob for time ON setting. Time ON lengths from 15 minutes to 12 hour vary by model.

**HOLD FEATURE:** Some models have position for constant ON.

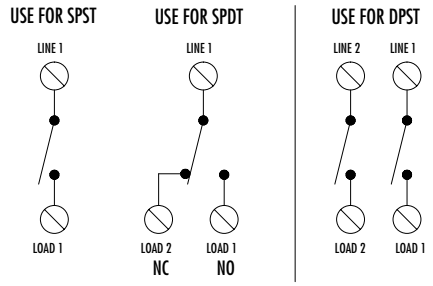
**EASY SET:** No adjustments. Just wire and go!

**EASY WIRING:** No neutral required. Great for retrofit!

**SWITCH TYPE:** SPDT "2 in 1" contacts wire as SPST also, except C460M and C412H are DPST. Can wire normally on and countdown while off.

**COLOR:** Metal-brushed aluminum.

**WALL PLATE:** Includes real metal wall plate with screw mounting, to add extra security for commercial applications.




CAUTION: This timer is not to be used in precision timing applications where inaccurate timing could have dangerous consequences (i.e. sun lamp, sauna, etc.).

| CAT. NO. | UPC CODE | HOLD FEATURE |
|---|---|---|
| **15 MINUTE MAX.** | | |
| C515M | 15501 | No Hold |
| **30 MINUTE MAX.** | | |
| C530M | 15503 | No Hold |
| **60 MINUTE MAX.** | | |
| C560M | 15505 | No Hold |
| C560MH | 15506 | With Hold |
| C460M* | 15011 | No Hold |
| **2 HOUR MAX.** | | |
| C502H | 15507 | No Hold |
| **6 HOUR MAX.** | | |
| C506H | 15511 | No Hold |
| **12 HOUR MAX.** | | |
| C512H | 15513 | No Hold |
| C512HH | 15514 | With Hold |
| C412H* | 15010 | No Hold |

*DPST switch type.


TORK
TIME




# TORK® PLUG-IN TIMERS

# 400B SERIES
## INDOOR PLUG-IN MECHANICAL TIMERS

NEW!



403B



402B



405B

## APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Control lamps, radios, televisions, appliances.
- Give the home a "lived in" look while away.
- Save energy and provide security.

## FEATURES

**REPEAT SCHEDULE:** Daily.

**VARIABLE TIMING:** Multiple ON/OFF times.

**ON/OFF:** Manual ON/TIMER switch.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▶) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| 403B | 16085 | 125VAC 15A 1875W Resistive<br>125VAC 500W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC 1/3 HP Motor | 1 | Polarized | Basic Lighting Timer | 30 minute |
| 402B | 16091 | | 1 | Grounded | Heavy Duty 24 hour Timer | 30 minute |
| 405B | 16094 | 125VAC 15A 1875W Resistive<br>125VAC 500W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC TV-4 | 2 | Grounded | Two Outlet Automatic Timer | 30 minute |

**NOTE**: "▲" = Indicates outlet location.

# SA100 SERIES
## INDOOR PLUG-IN MECHANICAL TIMERS

NEW!



SA011

## APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Control lamps, radios, televisions, appliances.
- Give the home a "lived in" look while away.
- Save energy and provide security.



SA105



SA100



SA110

## FEATURES

**REPEAT SCHEDULE:** Daily.

**VARIABLE TIMING:** Multiple ON/OFF times.

**ON/OFF:** Manual ON/TIMER switch.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▶) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| SA011 | 16501 | 120VAC 15A Resistive, 120VAC 15A Inductive , 120VAC 1800W Tungsten, 120VAC 1/2HP Motor | 1 | Polarized | Lamp Timer with LED night light | Two Pair of On/Off trippers |
| SA100 | 16507 | | 1 | Polarized | Basic Timer with cover to hide dial | 15 Minutes |
| SA105 | 16510 | 120VAC 15A Resistive 120VAC 15A Inductive 120VAC 1800W Tungsten | 1 Timed 1 Untimed | Polarized Polarized | Table Top Timer for easy access with 6 foot cord | 15 Minutes |
| SA110 | 16513 | | 1 Timed 1 Untimed | Grounded Polarized | Heavy Duty Appliance Timer with cover to hide dial | 15 Minutes |

**NOTE**: "▲" = Indicates outlet location.

# SA100 & 400E SERIES
## INDOOR DIGITAL PLUG-IN TIMERS



SA134



SA130

## APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Vary schedules daily.
- Give the home a "lived in" look while away.
- Save energy and provide security.




▲ 460E




▲ 454E




455E

## FEATURES

**SA134 & SA130:**
24 hour programming.
Battery Back-up for power outages.

**460E, 454E & 455E:**
7 day programming.
Random feature for lived in look.
Manual Daylight Savings.
Battery Back-up for power outages.

**SunSet TIMER 457Z:**

- Sunset On with 7 day programmable Off or sunrise Off.
- Random feature for lived in look.
- Automatic Daylight Savings.
- Battery Back-up for power outages.
- Never come home to a dark house.



▲ 457Z SunSet

| | CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▲) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|---|
| | SA134 | 16522 | 120VAC 8.3 amp Resistive 120VAC 600W Tungsten | 1 | Polarized | Easy Set 24 hour daily repeat timer | 2 On/Off Settings |
| | SA130 | 16519 | 120VAC 15A Resistive , 120VAC 15A Inductive, 120VAC 500W Tungsten 120VAC 1/2 HP Motor | 1 Timed 1 Untimed | Polarized | Easy Set Lamp Timer with cover to hide buttons | 2 On/Off settings. 1 setting may be active at a time |
| | 460E | 16097 | 125VAC 15A 1875W Resistive, 125VAC 1000W Tungsten, 125VAC 500VA Electronic Ballast, 1/3 HP Motor | 1 | Polarized | Seven Day Programmable | 20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs |
| | 454E | 16100 | | 1 | Grounded | Seven Day Programmable | |
| | 455E | 16103 | 120VAC 15A 1800W Resistive, 120VAC 960W Tungsten, 120VAC 500VA Electronic Ballast, 1/2 HP | 2 | Grounded | Seven Day Programmable | |
| | 457Z | 16016 | 125VAC 15A General Purpose 125VAC 15A Resistive 125VAC 1000W Tungsten | 2 | Grounded | SunSet™ Timer Dusk to Dawn with automatic daylight savings | |

**NOTE**: "▲" = Indicates outlet location.

# SA200 & SA500 SERIES
## WIRELESS PLUG-IN CONTROLS

NEW!



SA500



SA230

## APPLICATIONS

- Remotely turn ON/OFF items.
- Control lamps, radios, appliances, outdoor lighting.
- Safety: enter and leave rooms in full light.
- Provide a convenient control from your chair.

## FEATURES

**INDOOR REMOTE OUTLET - SA500:**

- Control indoor outlet up to 80′ away.
- Transmitter has 3 pair ON/OFF buttons to allow independent control of 3 receivers.
- Match receiver and outlet with simple dial. No fussy programming.
- Get one for each room. No cross talk.
- Wireless control without moving across room.

**OUTDOOR REMOTE OUTLET - SA230:**

- Control indoor outlet up to 80′ away.
- Matched receiver and outlet. No programming.
- Transmitter has 1 pair ON/OFF button.
- Wireless control from the comfort of inside.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▲) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| SA500 | 16555 | 125VAC 8A Resistive<br>125VAC 625W Tungsten | 1 | Grounded | Indoor Remote Controlled Outlet | Manual On/Off with push button transmitter |
| SA230 | 16564 | 125VAC 8A Resistive<br>125VAC 600W Tungsten | 2 | Grounded | Outdoor Remote Controlled Outlet | Manual On/Off with push button transmitter |

**NOTE**: "▲" = Indicates outlet location.

# 600B & SA200 SERIES
## OUTDOOR PLUG-IN MECHANICAL TIMERS

NEW!



602B



652B

## APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON with light activated timer.



SA205

## FEATURES

**MECHANICAL TIMERS:**
**TIMER REPEAT SCHEDULE:** Daily.
**VARIABLE TIMING:** Multiple ON/OFF times.
**MANUAL SWITCH:** ON or TIMER mode.

**LIGHT ACTIVATED TIMERS:**
**TIMER REPEAT SCHEDULE:** Daily turns on at dusk.
**VARIABLE TIMING:** Dial turn to choose a countdown time to turn Off hours after dusk.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▶) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| 602B | 16106 | 125VAC 15A Resistive<br>125VAC 500W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC 1⁄3 HP Motor | 2 | Grounded | Outdoor Lighting Timer | 30 Minutes |
| SA205* | 16534 | 120VAC 15A Resistive<br>120VAC 15A Inductive<br>120VAC 1800W Tungsten<br>120VAC 1800W Incandescent<br>120VAC 1/2 HP Motor | 1 Timed<br>1 Untimed | Grounded | Landscape Timer | 15 Minutes |
| 652B | 16108 | 125VAC 15A General Purpose<br>125VAC 15A Resistive<br>125VAC 1000W Tungsten<br>125 VAC 500VA Electronic Ballast<br>125VAC 1⁄3 HP, TV-5 | 2 | Grounded | Light Activated Outdoor Lighting Timer | Turns on at Dusk and countdown Off 2, 4, 6 or 8 hours later |

* ETL listed for U.S. and Canada.

**NOTE**: "▲" = Indicates outlet location.

# 600E & SA200 SERIES
## OUTDOOR PLUG-IN DIGITAL TIMERS

NEW!



642E



654E

## APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON with light activated timer.



SA204

## FEATURES

**DIGITAL TIMER:**

- 7 day programming
- Manual Daylight Savings
- Random feature for lived in look
- Battery Back-up for power outages

**LIGHT ACTIVATED TIMERS:**

**TIMER REPEAT SCHEDULE:** Daily turns on at dusk.

**VARIABLE TIMING:** Choose a countdown time to turn Off from 1 to 9 hours after dusk.

**654A USER SELECT MODE:** Start countdown at any time and repeats daily.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▲) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| 642E | 16110 | 125VAC 15A Resistive<br>125VAC 1000W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC 1⁄3 HP Motor | 2 | Grounded | Outdoor Lighting Timer | 30 minutes |
| 654E | 16113 | 125VAC 15A Resistive<br>125VAC 1000W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC 1⁄3 HP TV-5 | 2 | Grounded | Light Activated Outdoor Lighting Timer | Turns on at Dusk and countdown off 1 through 9 hours later |
| SA204* | 16561 | 120VAC 8A Resistive<br>120VAC 600W Tungsten | 2 | Grounded | Light Activated Landscape Timer | |

* ETL listed for U.S. and Canada.

**NOTE**: "▲" = Indicates outlet location.

# SA200 SERIES
## OUTDOOR PLUG-IN STAKE TIMERS

NEW!



SA215

## APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Multiple outlets for holiday lighting.

## FEATURES

**REPEAT SCHEDULE:** Daily.

**VARIABLE TIMING:** Multiple ON/OFF times.

**MANUAL SWITCH:** ON or TIMER mode.

**POWER CORD:** 18" length.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▶) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| SA215 | 16540 | 125V 15A Resistive<br>125V 1250W Tungsten<br>125V 1/2 HP Motor | 6 | Grounded | Holiday Décor Stake Timer | 30 minutes |

**NOTE**: "▲" = Indicates outlet location.

# SA200 SERIES
## OUTDOOR Zip-Set™ DIGITAL PLUG-IN TIMERS

NEW!



## APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON everyday.

## FEATURES

- Fast programming with ZIP-SET™ One-Step™ set-up. Just enter your area code.
- ZIP-SET™ turns lights ON at sunset & OFF at countdown or preset time.
- 7-5-2 settings for full week, weekdays, and weekends.
- Option to set with one of three on/off programs.
- Manual Daylight Savings.
- Random feature for lived in look.
- Battery Back-up for power outages.
- Power Cord: SA210 18" & SA220 24".

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| SA210 | 16537 | 120VAC 15A Resistive<br>120VAC 15A Inductive<br>120VAC 1000W Tungsten<br>120VAC 1/4 HP Motor | 2 Timed<br>1 Untimed | Grounded | Zip-Set™ Outdoor Living Wall Mount Timer | Sunset On and countdown hours to Off or same fixed time off each day |
| SA220 | 16534 | 120VAC 15A Resistive<br>120VAC 15A Inductive<br>120VAC 600W Tungsten<br>120VAC 1/4 HP Motor | 6 Timed<br>1 Untimed | Grounded | Zip-Set™ Outdoor Lighting Stake Timer | Sunset On and countdown hours to Off or same fixed time off each day |






# TORK*ALERT*™ SIGNALING DEVICES

# MECHANICAL STROBE HORNS



TA880-N5

TA5508H-G1

## APPLICATIONS

- High performance for industrial signaling applications. Offers high sound output, low current draw and dependable operation. Strobes use xenon flashtube, ideal for maximum efficiency and reliability.

## FEATURES

**ALARM:** Penetrating mechanical sound.

**WIRING:** Low current draw. Horn may be wired separately

**MOUNTING:** 4" square surface mounting.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | INPUT CURRENT (AMPS) | dB @10 FEET | CANDELA |
|---|---|---|---|---|---|
| TA880-N5 | 96015 | 120VAC | 0.115 | 96 | 15 |
| TA5508H-G1 | 96071 | 24VDC | .059 | strobe only | 15/75 |

**NOTE:** TA880-N5 For outdoor use, unit must be mounted in a TA-WBBF outdoor backbox. See page 550 for ordering. TA5508H-G1 for indoor mounting only.

# MECHANICAL HORNS



## APPLICATIONS

- Loud tone with typical decibel output of 87dB at 10 feet. Low frequency resonation for strong penetration of noisy areas like boiler rooms, water pumping stations, elevators and air compressor rooms.

## FEATURES

**INPUT VOLTAGE:** Wide input voltage ratings for compatibility with unregulated power supplies.

**WIRING:** Screw terminals for convenient IN/OUT wiring. Low current draw for minimizing power supply and wiring cost.

**HOUSING:** Steel, painted Dawn Mist. Resonant grill design for high sound output.

**MOUNTING:** To indoor box TA-BBSF or outdoor box TA-WBBF, see accessories page 576.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | INPUT CURRENT (AMPS) |
|---|---|---|---|
| SURFACE TYPE | | | |
| TA874-N5 | 96023 | 120VAC, 60Hz | 0.070 |
| TA874-N5R (Red) | 97613 | 120VAC, 60Hz | 0.070 |
| TA875-G1 | 97687 | 24VDC | 0.035 |
| WITH WEATHERPROOF BACKBOX TA-WBBF UL LISTED FOR OUTDOOR USE | | | |
| TA876-N5 | 96026 | 120VAC, 60Hz | 0.070 |

NOTE: Use TORK signal timers for 24 hour or 7 day scheduling, see page 485.

# MULTI-TONE ELECTRONIC HORNS

## 24VDC &115VAC



TA875-1G1

TA-MTS

## APPLICATIONS

- For indoor and outdoor use. Superior sound penetration for various room conditions. Screw terminals accept #12AWG.

| TA875-1G1 24VDC HORN | | |
|---|---|---|
| ALARM TONE | CURRENT (AMPS) | TYPICAL dB @10 FEET |
| BELL | 0.020 | 91 |
| HI-LO | 0.025 | 96 |
| CHIME | 0.028 | 93 |
| SINGLE STROKE BELL | 0.026 | 93 |
| HORN | 0.023 | 97 |
| 3 BEEPS, PAUSE | 0.023 | 97 |
| SIREN | 0.040 | 95 |
| SLOW WHOOP | 0.040 | 96 |

| TA-MTS 115VAC HORN | | | | |
|---|---|---|---|---|
| ALARM TONE | AMPS @ 120VAC | | TYPICAL dB @10 FEET | |
| | HIGH | STANDARD | HIGH OUTPUT | STANDARD OUTPUT |
| HORN | 0.050 | 0.042 | 85 | 82 |
| BELL | 0.041 | 0.039 | 82 | 75 |
| HORN 2 | 0.050 | 0.040 | 85 | 79 |
| CODE 3 HORN | 0.050 | 0.042 | 82 | 75 |
| CODE 3 TONE | 0.042 | 0.040 | 79 | 75 |
| SLOW WHOOP | 0.050 | 0.042 | 85 | 82 |
| SIREN | 0.045 | 0.041 | 85 | 82 |
| HI-LO | 0.042 | 0.039 | 82 | 79 |

## FEATURES

**OPERATING TEMPERATURE:**
TA-MTS: -31˚F to +150˚F (-35˚C to +66˚C).

**DIMENSIONS AND MOUNTING:**
TA-MTS: 4 1⁄18″H x 4 1/8″W x 3 17/32″D
Can be mounted on celing or wall.
TA875-1G1: 4 3/4″H x 4 3/4″W x 1 3/8″D
1 gang, 2 gang or 4" square backbox.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | DESCRIPTION |
|---|---|---|---|
| TA875-1G1 | 97641 | 20-31VDC | Multi-tone Electric Horn |
| TA-MTS | 97674 | 115 VAC | Multi-tone Electric Horn |

# HEAVY DUTY BELLS

## 4", 6", 10" DIAMETERS
## AC VIBRATING BELLS



## APPLICATIONS

- For indoor or outdoor applications. High sound output, durable and dependable performance. Ideal for schools and hopsitals.

| CAT. NO. | UPC CODE | SHELL SIZE | VOLTAGE | INPUT CURRENT (AMPS) | dB @ 10 FEET | COLOR |
|---|---|---|---|---|---|---|
| TA340-4G5 | 96001 | 4″ | 24VAC | 0.320 | 81-90 | Dawn Mist |
| TA340-4N5 | 96002 | 4″ | 120VAC | 0.065 | 81-90 | Dawn Mist |
| TA340-6G5 | 96003 | 6″ | 24VAC | 0.320 | 81-95 | Dawn Mist |
| TA340-6N5 | 96004 | 6″ | 120VAC | 0.065 | 81-95 | Dawn Mist |
| TA340-10G5 | 96005 | 10″ | 24VAC | 0.320 | 84-98 | Dawn Mist |
| TA434-4N5 | 98005 | 4" | 120VAC | 0.065 | 81-95 | Red |
| TA434-6N5 | 97521 | 6″ | 120VAC | 0.065 | 81-95 | Red |
| TA434-10N5 | 96522 | 10″ | 120VAC | 0.065 | 84-98 | Red |

## FEATURES

**TERMINAL SIZE:** #12 - 22 AWG.

**WIRING:** Screw terminals permit fast IN/OUT field wiring.

**HOUSING:** Steel gong and cast aluminum. See page 577 for dimensional drawings.

**MOUNTING:** To indoor box TA-BBSF or outdoor box TA-WBBF, see accessories page 576.

# LIGHT DUTY AND GENERAL PURPOSE BELLS & BUZZER



TA740

TA725

## APPLICATIONS

- Designed to operate on either bell ringing transformers or batteries. Non-adjustable sound.

| CAT. NO. | UPC CODE | DESCRIPTION | VAC | VDC | AMPS | dB |
|---|---|---|---|---|---|---|
| TA740 | 96228 | 2½" Gong | 8-16 | 3-6 | 1 | 76 @ 10' |
| TA744 | 96230 | 4" Gong | 8-16 | 3-6 | 1 | 78 @ 10' |
| TA725 | 96226 | Buzzer | 8-16 | 3-6 | 1 | 88 @ 3' |

## FEATURES

**ALARM:** Bell ringing, non-adjustable sound.

**DIMENSIONS FOR TA725:**
3" H x 2½" W x 1" D.

**MOUNTING:** Fully enclosed sturdy steel bases and covers. Base and cover snap together, no screws required.

# CHIMES & CHIME KITS



## APPLICATIONS

- Powerful and loud, pleasant sounding push-button chimes. Ideal for homes, apartments and offices.

| CAT. NO. | UPC CODE | DESCRIPTION | DIMENSIONS |
|---|---|---|---|
| TAC212WS | 96064 | 16VAC Chime + Push Button clip for Stucco + 10VA Transformer | 7 3/16"L x 4"W x 2"D |
| TAC212WL | 96054 | 16VAC Chime +1 Illuminated & 1 Non-illuminated Push-button +10VA Transformer | 7 1/4"L x 4 3/4"W x 2 1/2"D |

## FEATURES

**INPUT:** 16V, 10VA, 120VAC.

**ALARM:** Chime.

**MOUNTING:** Fully enclosed sturdy steel bases.

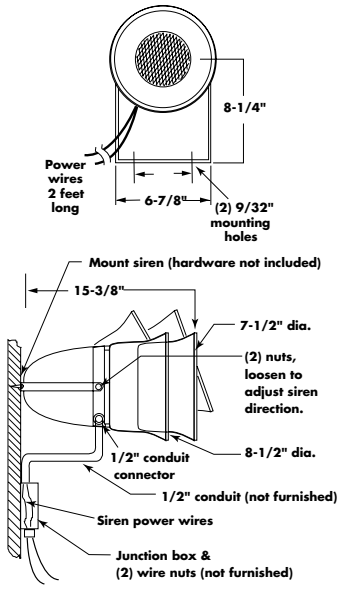
# WEATHERPROOF MOTOR DRIVEN SIREN



## APPLICATIONS

- For industrial and outdoor use. Ideal for evacuation and warning systems.

## DIMENSIONS




## FEATURES

**INPUT VOLTAGE:** 120AC & DC, 60Hz.

**ALARM:** Loud, distinctive tone. Designed to be effective over standard horns or bells.

**HOUSING:** Red enamel paint over heavy gauge aluminum housing. Fully enclosed motor. 180° swivel and adjustable direction.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | dB @10 FEET | AMPS | VA |
|---|---|---|---|---|---|
| TA315-1N5 | 96599 | 120VAC/DC | 117 | 2.5 | 300 |

# MANUAL FIRE ALARM
## PULL-DOWN STATION




## APPLICATIONS

- Designed for indoor use. Ideal for schools, hospitals, industrial plants, warehouses and retail stores. Key is required to close and reset device. Meets requirements, BSA, MEA, CA and UL.

| CAT. NO. | UPC CODE | SWITCH | VOLTS | AMPS |
|---|---|---|---|---|
| TA270A | 96521 | SPST, NO | 30V AC/DC | 1 |

## FEATURES

**ALARM:** Loud, distinctive tone. Designed to be compatible with any control panel to initiate local alarm signals, trip municipal fire alarm box and start fire pumps.

**MOUNTING:** Sturdy metal construction, mounts to a standard single gang electrical box.

# TELEPHONE RELAY




## APPLICATIONS

- This device activates appliances when a telephone ring voltage is detected. For indoor and outdoor use with horns, bells or strobes. Recommended use where ambient noise levels are high. FCC approved.

## FEATURES

**INPUT:** Accepts RJ-11C phone plug.

**WIRING:** Hard wire connections, for analog phone lines.

**MOUNTING:** Weatherproof, indoor and outdoor, includes mounting bracket.

| CAT. NO. | UPC CODE | INPUT TELEPHONE RING VOLTAGE | AC INPUT VOLTAGE | RINGER EQUIVALENCE | PEAK CANDLEPOWER |
|---|---|---|---|---|---|
| TA-B-8332 | 97100 | 39-150V/20-30Hz | 115VAC-5A, 230VAC-2A | Up to 115VDC-500MA | 0.6 |

# WALL CLOCKS
## QUARTZ & ELECTRIC



## APPLICATIONS

- Each model meets United States Government Specifications. All Clocks provide second hand for accurate timing.

## FEATURES

**QUARTZ**
Accurate to one minute per year. Low power consumption for long battery life. Uses AA battery (not supplied).

**ELECTRIC** (UL)
110VAC, 60 Hz synchronous motor. 66 inch line cord and plug. Does not require grounding.

**MOUNTING:** Concealed mounting brackets allow for simple, neat placement on walls.

| QUARTZ CLOCK | | | | |
|---|---|---|---|---|
| CAT. NO. | UPC CODE | TYPE | SIZE | FRAME COLOR |
| TA1886 G | 96156 | QUARTZ | 8″ | Grey |
| TA1886 B | 96155 | QUARTZ | 8″ | Brown |
| TA1887 G | 96159 | QUARTZ | 12″ | Grey |
| TA1887 B | 96157 | QUARTZ | 12″ | Brown |
| TA1887 BK | 96158 | QUARTZ | 12″ | Black |

| ELECTRIC CLOCK | | | | |
|---|---|---|---|---|
| CAT. NO. | UPC CODE | TYPE | SIZE | FRAME COLOR |
| TA1880 G | 96152 | ELECTRIC | 8″ | Grey |
| TA1880 B | 96151 | ELECTRIC | 8″ | Brown |
| TA1882 G | 96154 | ELECTRIC | 12″ | Grey |
| TA1882 B | 96153 | ELECTRIC | 12″ | Brown |

# ELECTRIC DOOR OPENERS
## REMOTE CONTROL & CONTACT DEVICES

## APPLICATIONS

- For unlocking or locking metal or wooden doors using low voltage wiring. For AC, use TA591 or TA592 transformer.

## MAGNETIC SWITCH CONTACTS

For activating a variety of signals, ideal for limiting space applications. Self-insulating and can be mounted in any direction. All units include companion magnet. Dimensions: 2 3/16"L x 1/2"W x 1/2"D.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS MAX. |
|---|---|---|---|---|---|
|  | TA60 | 96975 | Circuit closed with magnet engaged | | |
| | TA61 | 96976 | Make & break NO and NC | 24VAC 12VDC | .5 |
| | TA62 | 96977 | Circuit open with magnet engaged | | |
| | TA67W | 96979 | Terminal Cover | | |

## DOOR/WINDOW CONTACTS, ROLLING BALL TYPE

Signals automatically with the opening and closing of doors, windows and transoms. Operates from pressure in any direction. Non-tilt, non-jamming design. Fits 3/4" hole; no need to mortise.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS MAX. |
|---|---|---|---|---|---|
|  | TA44 | 96995 | Normally closed Push to open | | |
| | TA45 | 96996 | Normally open Push to close | 12-24V AC/DC | 2 |
| | TA46 | 96997 | Momentary contact Push to make & break | | |

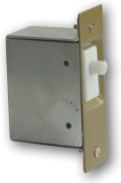
## MORTISE TYPE REMOTE OPENER

Reversible for right or left hand door. Use with mortise entrance locks having a latch bolt with up to 1/2" width and throw. 6" wire leads. Dimensional drawings available.

| DEVICE | CAT. NO. | UPC CODE | VOLTS | AMPS |
|---|---|---|---|---|
|  | TA09 | 96960 | 8-16VAC 3-6VDC | .95-1.75 1.25-1.80 |
|  | TA154 | 96962 | 16VAC 3-6VDC | .95-1.75 1.25-1.80 |

## ELECTRIC DOOR SWITCH

For turning lights/signals on or off when doors are opened or closed. Ideal for closets, dark rooms, storage areas of walk-in refrigeration. Rust resistant steel case with 4 knockouts, antique brass plate. Box dimensions: 1 1/4"W x 3 7/8"H x 2"D. Plate dimensions: 1 1/4"W x 4".

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS MAX. |
|---|---|---|---|---|---|
|  | TA502 | 96964 | Light ON when door is open | 125VAC 250VAC | 6 3 |

## RIM TYPE REMOTE OPENER

Reversible for right or left hand door. Standard surface type used with lock latches with up to 5/8" width and throw. 6" wire leads. Dimensional drawings available.

| DEVICE | CAT. NO. | UPC CODE | VOLTS |
|---|---|---|---|
|  | TA152 | 96961 | 8-16VAC, 3-6VDC |

## DOOR TRIP SWITCH

Signals automatically as door is openend. Commonly used on store doors to announce entrance of customers. Mounts on top of door frame. Solid cast brass. Size: 3 x 1 5/8".

| DEVICE | CAT. NO. | UPC CODE | VOLTS | AMPS MAX. |
|---|---|---|---|---|
|  | TA236 | 96963 | 12-24VAC | 2 |

TORK ALERT™

# PUSH-BUTTONS
## ILLUMINATED, NON-ILLUMINATED & WEATHERPROOF



## APPLICATIONS

- For outdoor use to activate low voltage bells, buzzers, horns or any other audible signal. Ideal for factory doors, receiving departments, small office buildings, limited access retail stores and private homes.

## WEATHERPROOF PUSH-BUTTONS / SOLID CAST BRASS

| BUTTON | CAT. NO. | UPC CODE | DESCRIPTION | INPUT VOLTAGE |
|---|---|---|---|---|
|  | TA1786B | 96090 | Without conduit backplate | Momentary Contacts<br>4 amps AC/DC @ 12V<br>4 amps AC, 2 amps DC @ 24V<br>2 amps AC<br>1 amp DC @48V |
| | TA1786CB | 96091 | With conduit backplate | |

## ILLUMINATED PUSH-BUTTONS, UP TO 16VAC

| BUTTON | CAT. NO. | UPC CODE | COLOR | SIZE |
|---|---|---|---|---|
|  | TA603L | 96035 | Gold | 1 3/4" (diameter) |
|  | TA631L | 96089 | White | 2 3/4" x 7/8" |
|  | TA656B | 96039 | Gold | 15/16 x 2 3/4" |
|  | TA215LB | 96031 | Brass | 1 1/4 x 2″ |
|  | TA620L* | 96037 | Chrome | 5/8" (diameter) |
| | TA620LB* | 96038 | Brass | 5/8" (diameter) |

## NON-ILLUMINATED PUSH-BUTTONS, UP TO 24VAC

| BUTTON | CAT. NO. | UPC CODE | COLOR | SIZE |
|---|---|---|---|---|
|  | TA600 | 96041 | Polished Brass | 2 1/4" (diameter) |
| | TA603 | 96044 | Polished Brass | 1 3/4" (diameter) |
|  | TA631 | 96088 | White | 2 3/4" x 7/8" |
| | TA635 | 96047 | Ivory, black bar | 2 3/4" x 7/8" |
| | TA666BK | 96048 | Black, ivory bar | 2 3/4" X 2 3/4" |
|  | TA602 | 96043 | Polished Brass | 13/8" x 5 1/4" |
|  | TA601 | 96042 | Sprayed Brass | 2 x 2 9/16" |
|  | TA620* | 96045 | Chrome | 5/8" (diameter) |
| | TA620B* | 96046 | Brass | 5/8" (diameter) |

*Stainless steel plate to fit TA620 models: Order TA 147-1

# WARNING LIGHTS
## INDUSTRIAL UNITS

| LETTER | INDICATES COLOR |
|---|---|
| R | Red |
| A | Amber |
| C | Clear |
| B | Blue |

## APPLICATIONS

- 1/2" conduit mounting. Full selection of dome colors, see chart at right. For outdoor use. All units must be mounted vertically with base at bottom.

### TA47N5 / TA47R5 – ALL PURPOSE 360° BEACON

Large parabolic reflector rotates around a 100 wall bulb. Long range beam. Use to indicate equipment malfunctions, security intrusion, etc.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA47RN5 | 96061 | 90 FPM<br>Corrosion resistant/Outdoor use<br>Glass filled polypropylene housing<br>Acrylic dome<br>Tamper resistant dome clamps<br>Nominal current draw<br>9 1/2"H x 8 1/2" diameter | 117VAC | |
| | TA47AN5 | 96161 | | 117VAC | .9 |
| | TA47AR5 | 96162 | | 240VAC, 60Hz | |

### TA52N5 – COMPACT ROTATING BEACON

Light intensifying reflector rotates arounf a low current 25 watt bulb. Bayonet socket for easy lamp replacement. Ideal for restricted or dangerous areas.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA52RN5 | 96063 | 80-90 FPM<br>360˚ rotation<br>Dependable belt & turntable design<br>Acrylic dome<br>Nominal current draw<br>6 1/2"H x 55/8" diameter | 117VAC | .21 |
| | TA52AN5 | 96163 | | | |
| | TA52BN5 | 96263 | | | |

### TA93-2N5 – MIDI-STROBE

Solid state circuitry in a low profile design. No moving parts means less Maintenance!

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA93-2RN5 | 99622 | 70-80 FPM<br>Solid state electronic circuitry<br>High output 3-4 watt, 3.6 joules<br>Vertically mounted flash tube<br>Snap out socket base for<br>360˚ Fresnel dome optics<br>Nominal current draw<br>6 1/2"H x 5 1/8" diameter | 117VAC | .04 |
| | TA93-2AN5 | 97623 | | | |
| | TA93-2CN5 | 96968 | | | |
| | TA93-2BN5 | 97624 | | | |

### TA94N5 – ELECTRONIC STROBE

High intensity strobe tube with inner fluted lens for maximum brilliance. No moving parts makes it immune to shock and vibration. Ideal for security alert.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA94RN5 | 97626 | 70-80 FPM<br>Solid state electronic circuitry High output 3-4 watt, 3.6 joules<br>Acrylic dome<br>Glass filled polypropylene housing<br>Suitable for outdoor use<br>9 1/2"H x 8 1/2" diameter | 117VAC | .04 |
| | TA94AN5 | 97627 | | | |
| | TA94BN5 | 97628 | | | |

# WARNING LIGHTS
## VEHICULAR UNITS



| LETTER | INDICATES COLOR |
|---|---|
| R | Red |
| A | Amber |

## APPLICATIONS

1/2" conduit mounting. Full selection of dome colors, see chart at right. For outdoor use. All units must be mounted vertically with base at bottom.

### TA53E1 – ROTATING BEACON

Single point shock-mounting. Ideal for use on security or service vehicles.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS |
|---|---|---|---|---|
|  | TA53AF1 | 96185 | 90-100 FPM<br>Dependable belt & turntable design<br>25 watt lamp<br>Acrylic Dome<br>Nominal current draw<br>7 1/2"H x 6" diameter | 36VDC |
| | TA53AG1 | 96184 | | 24VDC |

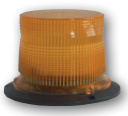
### TA54E1 – PORTABLE, MAGNETIC, ROTATING BEACON

Single point shock-mounting. Ideal for use on security or service vehicles.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS |
|---|---|---|---|---|
|  | TA54AE1 | 96187 | 75 FPM, 12 watt lamp<br>Quiet belt-drive motor.<br>Teardrop design fits under windshields.<br>Includes glare shield, velcro tape<br>4 1/2" H x 7 1/2" diameter | 12VDC |
| | TA54RE1 | 96087 | | |

### TA131DN5 / TA131DU1 – DOUBLE FLASH SUPER STROBE

Ideal for industrial applications requiring extremely high visibility. One model covers all popular mounting methods: ½" pipe, surface, flange, electrical box.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA131DRN5 | 96510 | 60 FPM, 7.5 JPF<br>High intensity 85,000 peak CP<br>Flashtube Rated at 7000-8000 hrs.<br>Durable Lexan® housing<br>5"H x 7 1/4" diameter | 120VAC | .2 |
| | TA131DAN5 | 96610 | | | |
| | TA131DRU1 | 96511 | | 10.5-31.0VDC | |
| | TA131DAU1 | 97611 | | | |

### TA879 – VEHICULAR BACKUP ALARM

Solid state electronic unit. Helps to comply with OSHA and State regulations. Makes distinctive noise, ideal for extreme variations in background noise

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS |
|---|---|---|---|---|
|  | TA879 | 96102 | 2 sound levels<br>97 or 87 dB +/- dB at 4ft<br>Multi-voltage<br>Water-resistant housing | 12 to 48VDC |

**NOTE:** FPM = Flashes per minute
JPF = Joules per flash

For replacement parts and accessories, see page 576.

# POWER SUPPLY UNITS
## 24 VDC UNITS




TA640

TA606

## APPLICATIONS

- Units provide power to multiple signaling devices, depending on requirements.

## FEATURES

**TA606**
Regulated and filtered 24VDC up to 600mA. Easy-to-use screw terminals, accepts #16-24AWG. No conduit is required for installation.

**TA640**
Dual output unit, each providing 2 Amps fo current. If connected in parallel, will provide up to 4 Amps. Circuit breaker provides input protection.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | REGULATION | RIPPLE VOLTAGE |
|---|---|---|---|---|---|---|
| TA606 | 96109 | 117VAC | 24VDC | 600mA | - | - |
| TA640 | 96110 | 115VAC | 24VDC | 4A | +/-5% | 10mVRMS |

# TRANSFORMERS



## APPLICATIONS

- Engineered to ensure long use for bells, buzzers and chimes.

| CAT. NO. | UPC CODE | TYPE | VOLTS-AMPS (VA) | PRIMARY VOLTAGE AC | SECONDARY VOLTAGE AC | Hz |
|---|---|---|---|---|---|---|
| TA590 | 96104 | Bell | 5 | 120 | 10 | 60 |
| TA591 | 96105 | Chime | 10 | 120 | 16 | 60 |
| TA592 | 96106 | Tri-Volt | 10-10-20 | 120 | 8-16-24 | 50/60 |
| TA598 | 96602 | Tri-Volt | 20-30-30 | 120 | 8-16-24 | 60 |
| TA599 | 96108 | Heavy Duty | 40 | 120 | 24 | 60 |
| TA1245Y-50 | 96166 | Heavy Duty | 50VA | 120/208/240 | 24 | 60 |
| TA1245Y-75 | 96167 | Heavy Duty | 75VA | 120/208/240 | 24 | 60 |

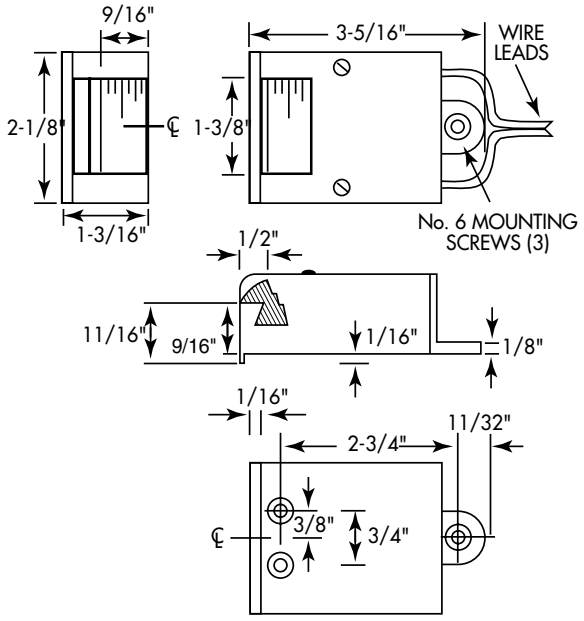
# ACCESSORIES, REPLACEMENT PARTS



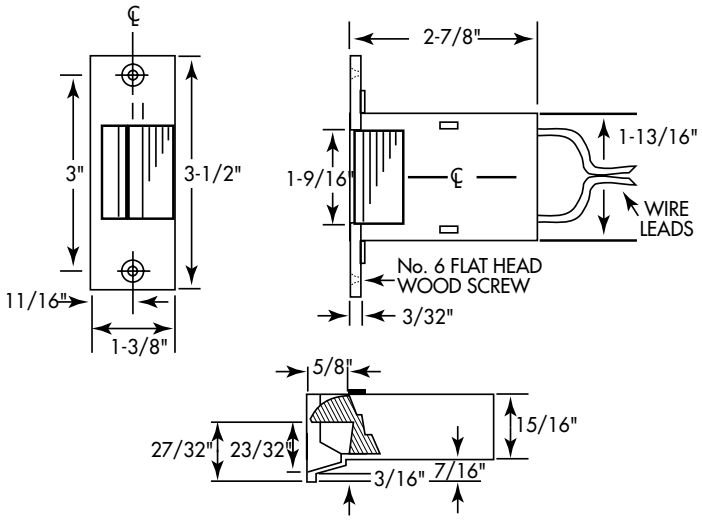
| UNIT | CAT. NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
| TA93-2 | TA-L6-2 | 96982 | 110VAC Xenon Flash Tube |
| TA52 | TA-L8 | 96134 | 110VAC Bulb |
| TA94 | TA-L10 | 96136 | 110VAC Xenon Flash Tube |
| TA-94 | TA-L10-1 | 96981 | 110VAC Xenon Flash Tube |
| TA502 | TA502SW | 96966 | Replacement switch |
| TA874 Series | TA-BBSF | 97694 | Backbox – 4" painted Dawn Mist 3/4" and 1" KO's |
| TA874 Series | TA-WBBF | 97692 | Weatherproof Backbox – 1/2" KOs 4" painted Dawn Mist |
| TA-BBSF, TA-WBBF | TA-SFPF | 97707 | Semi-Flush plate – Dawn Mist |
| TA-BBSF, TA-WBBF | TA-SFPFR | 97697 | Semi-Flush plate – Red |
| TA47, TA94 | TA-ADR | 96111 | Acrylic Dome – Red |
| TA47, TA94 | TA-ADA | 96311 | Acrylic Dome – Amber |
| TA52, TA53 | TA-D5B | 96419 | Acrylic Dome – Blue |
| TA54 | TA-D6A | 96320 | Dome – Amber |
| TA93, TA94 | TA-D7R | 96121 | Fresnal Dome – Red |
| TA93, TA94 | TA-D7A | 96321 | Fresnal Dome – Amber |
| TA93, TA94 | TA-D7C | 96621 | Fresnal Dome – Clear |
| TA131D | TA-D8R | 96970 | Acrylic Dome – Red |

## REMOTE CONTROL DOOR OPENERS

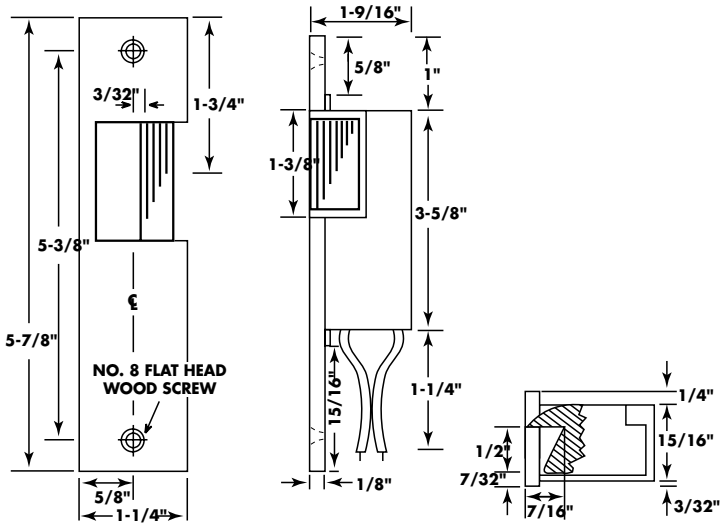
### TA152




### TA154

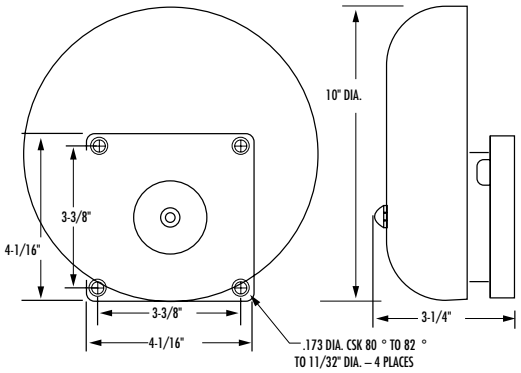



### TA09

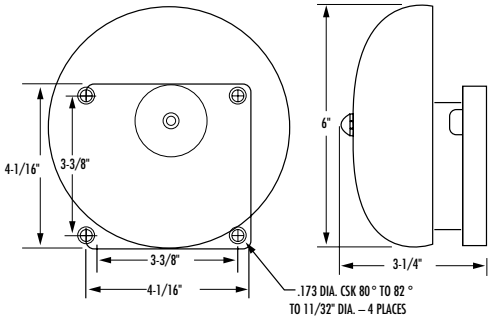


## HEAVY DUTY BELLS

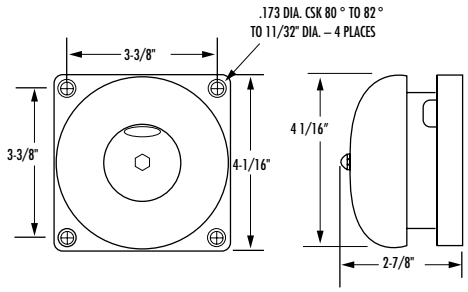
### 10″




### 6″

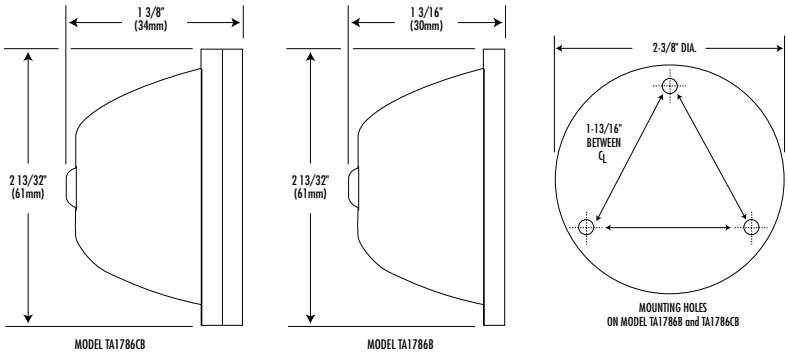



### 4″




## WEATHERPROOF BUTTON

### TA1786B ONLY




TORK
TORK nsi
TPX600
⚠ CAUTION:




# TORK® POOL & SPA CONTROLS

# PP PANEL SERIES
## POOL AND SPA PANELS



PP125R

## APPLICATIONS

- Pumps
- Swimming pools
- Fountains
- Ponds

c UL us
LISTED
POOL/SPA
CONTROL PANEL
3NZM

## FEATURES

**COMBINATION PANEL:** The PP Panel Series provides a flexible platform to create a custom pool and spa control at an off the shelf price. Start with a blank panel and add timers, freeze controls, circuit breakers, switches and outlets for a custom installation.

**PP-100R:** 100 amp load center 120-240V, 5/10 circuit breaker base.

**PP-125R:** 125 amp load center 120-240V, 8/16 circuit breaker base.

**CONTROLS:** Freeze protection or mechanical and digital timers are all available with unique features not found elsewhere in the industry. Find specification details on pages 589-593.

**BREAKERS:** Listed for Cutler Hammer (BR), GE (THQL), Murray/Siemens (MP) and Square D (HOM) (not included).

**REVERSIBLE DOOR:** Easy-Hinge patented removable and reversible door. Change from left to right opening. Solves installation issues in the field.

**WHILE-IN-USE COMPARTMENT:** Inside mounting for two devices with cord exit.

**DEVICE MOUNTING:** Provision for mounting one or two devices in any combination accepts toggle, GFCI, X-10 and UPB type devices in, PP-100R and PP-125R enclosures.

**TRANSFORMER:** Select panels include 120V input: 100 watt with output 12V/13V or 300 watt with output 12V/13V/14V.

**ENCLOSURE:** Metal NEMA 3R with lockable hasp. See pages 589-593 for dimensions.



PP100R



PP-125R-P4



PP-125R-P4-100X

| CAT. NO. | UPC CODE | CONTROL | CONTROL INPUT | ADDITIONAL INFORMATION |
|---|---|---|---|---|
| PP-100R | 94016 | - | - | Panel only. Add controls from page 589-593. |
| PP-125R | 94017 | - | - | Panel only. Add controls from page 589-593. |
| PP-125R-P4 | 53007 | P1104-M | 240VAC | Add another control from page 589-593. |
| PP-125R-P4-100X | 94018 | P1104-M | 240VAC | *Includes 100 watt Low Voltage Transformer |
| PP-125R-P4-300X | 94019 | P1104-M | 240VAC | *Includes 300 watt Low Voltage Transformer |

*For stand alone transformer see TPX series page 588.

# P1100 SERIES
## SWIMMING POOL TIMERS, 24 HOUR ELECTROMECHANICAL CONTROL

**QUICK INSTALL/RELEASE LEVER:** For easy installation and removal when installing into pool panels.

**LOAD INDICATOR LAMP**

**CONVENIENT EXTERNAL ROCKER SWITCH:** 3 position switch: OFF/ON/AUTO. Use switch to turn OFF pump at the end of pool season.

**REAL TIME SWITCH FACE:** Easy to set and check time.

**CAPTIVE TRIPPERS:** 15 minute intervals, no lost trippers.

**HEATER CONTACTS:** FM suffix includes "Fireman Switch" to turn off pool heater 20-30 minutes before timer turns OFF. Contact rates SPST, 15A @120V.

**THERMOSTAT:** PFP models include built in Freeze Protection. No extra wiring. Thermostat turns on load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.

**ACCESSORY CONTACT:** PF models include extra contact to accept PFPT Freeze Protection Accessory. Thermostat turns ON load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.

**TIMER INTERLOCK:** Makes one second timer dependant on operation of another timer.




| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | CONTACTS | RESISTIVE/ INDUCTIVE RATINGS | HP RATING | NOTES |
|---|---|---|---|---|---|---|
| PFP2-M | 94026 | 240 | DPST | 40A | 7.5HP @ 240V | Thermostat only |
| PFP3-M | 94027 | 120/240 w/neutral | DPST | 40A | 3 HP @ 120V 7.5HP @ 240V | Thermostat only |
| P1101-M | 10056 | 120 | DPST | 40A | 3 HP @ 120V | - |
| P1101FM-M | 10060 | 120 | DPST | 40A | 3 HP @ 120V | Fireman Switch |
| PF1101-M | 94020 | 120 | DPST | 40A | 3 HP @ 120V | Accepts PFPT thermostat input |
| PF1101FM-M | 94024 | 120 | DPST | 40A | 3 HP @ 120V | Fireman Switch & Accepts PFPT thermostat input |
| PFP1103-M | 94023 | 120/240 w/neutral | DPST | 40A | 3 HP @ 120V 7.5HP @ 240V | Freeze Protection included |
| P1104-M | 10057 | 240 | DPST | 40A | 7.5HP @ 240V | - |
| P1104FM-M | 10061 | 240 | DPST | 40A | 7.5HP @ 240V | Fireman Switch |
| PF1104-M | 94021 | 240 | DPST | 40A | 7.5HP @ 240V | Accepts PFPT thermostat input |
| PF1104FM-M | 94025 | 240 | DPST | 40A | 7.5HP @ 240V | Fireman Switch & Accepts PFPT thermostat input |
| PFPT | 94028 | 120/240 | - | - | - | Thermostat accessory |

*PFPT



**NOTE**: " " = Indicates Freeze Protection.

# PEW1100 SERIES
## SWIMMING POOL TIMERS, 7 DAY DIGITAL CONTROL

**QUICK INSTALL/RELEASE LEVER:** For easy installation and removal when installing into pool panels.

**LOAD INDICATOR LAMP**

**LARGE LCD DISPLAY**

**LARGE "MANUAL" BUTTON:** 3 operating modes available: OFF/ON/AUTO. Using the OFF mode, the pool can be closed down without disrupting the time settings.



**POWER OUTAGE BACKUP:** Battery retains time and schedule.

**7 DAY PROGRAMMING ONE MINUTE INTERVAL:** Allows for the control of various electrical equipment on a 7 day schedule. 15 schedule weekly programs.

**THERMOSTAT:** PFPEW models include built in Freeze Protection. No extra wiring. Thermostat turns on load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.

**ACCESSORY CONTACT:** PFEW models include extra contact to accept PFPT Freeze Protection Accessory. Thermostat turns ON load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.

**TIMER INTERLOCK:** Makes one timer dependant on operation of another timer.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | CONTACTS | RESISTIVE/INDUCTIVE RATINGS | HP RATING | NOTES |
|---|---|---|---|---|---|---|
| PEW101-M | 82432 | 120 | DPST | 40A | 3 HP @ 120 | - |
| PFEW101-M | 94029 | 120 | DPST | 40A | 3 HP @ 120 | Accepts PFPT thermostat input |
| PFPEW1102-M | 94031 | 240 | DPST | 40A | 7.5HP @ 240V | Freeze protection included |
| PFPEW1103-M | 94032 | 120/240 w/neutral | DPST | 40A | 3 HP @ 120V 7.5HP @ 240V | Freeze protection included |
| PEW104-M | 82442 | 240 | DPST | 40A | 7.5HP @ 240V | - |
| PFEW104-M | 94030 | 240 | DPST | 40A | 7.5HP @ 240V | Accepts PFPT thermostat input |

**NOTE**: " " = Indicates Freeze Protection.

# 1100 SERIES
## SAME ON/OFF TIMES EACH DAY
## SWIMMING POOL TIME SWITCHES



## APPLICATIONS

- Pool pumps
- Heaters
- Lighting

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277VAC, 60Hz (varies by model).

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:** -40 °F to 165 °F (-40 °C to +74 °C).

**POWER CONSUMPTION:** 3 watt max.

**ENCLOSURE:** Lockable hasp. Type varies by model. See pages 589-593 for dimensions and additional enclosure information.

## FEATURES

**SCHEDULING:** Minimum ON setting is 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF automatic operation then resumes.

| TYPE | VOLTAGE | CONTACT RATING |
|---|---|---|
| General Purpose | 120-277VAC | 40A |
| Resistive | 120-277VAC | 40A |
| Tungsten | 120VAC | 40A |
| Ballast | 120-277VAC | 20A |
| LED Driver* | 120-277VAC | 20A |
| Motor | 120VAC<br>240VAC | 2HP<br>5HP |

277VAC Single Phase

*UL only or & cULus on B suffix units.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 1101B* | 10064 | 120 | SPST | Metal Indoor NEMA 1 |
| 1101BM-IAP* | 10073 | 120 | SPST | Mechanism and mounting plate |
| 1104B* | 10067 | 208-277 | DPST | Metal Indoor NEMA 1 |
| 1104B-P* | 10070 | 208-277 | DPST | Polycarbonate Indoor/Outdoor NEMA 3R |
| 1104B-O* | 10075 | 208-277 | DPST | Metal Indoor/Outdoor NEMA 3 |
| 1104BM-IAP* | 10074 | 240 | DPST | Mechanism and mounting plate |
| 1101FM-N | 10043 | 120 | SPST | Noryl® Indoor/Outdoor NEMA 3R with fireman switch |
| 1104FM-N | 10044 | 208-277 | DPST | Noryl® Indoor/Outdoor NEMA 3R with fireman switch |
| 1101FM-M | 10043 | 120 | SPST | Mechanism with fireman switch |
| 1104FM-M | 10044 | 208-277 | DPST | Mechanism with fireman switch |
| 1101D | 10028 | 120 | Two 1101 SPST each | Metal Indoor/Outdoor NEMA 3R |
| 1104D | 10029 | 208-277 | Two 1104 DPST each | Metal Indoor/Outdoor NEMA 3R |
| 1104DF | 10032 | 208-277 | One 1104 One 1104FM | Metal Indoor/Outdoor NEMA 3R |
| Replacement Trippers | | Order #P47 for a pair of ON/OFF trippers<br>Order #PF48 for a pair of ON/OFF trippers for 1100FM series | | |
| Replacement Motor | | #101 (120V) & #201 (208-277V) | | |

* B suffix units cULus.

# POOL & SPA JUNCTION BOXES



JPB75175

## APPLICATIONS

- For installation of underwater pool lights or low voltage connections

## FEATURES

- Durable PVC molded case
- INTERIOR & EXTERIOR bonding
- Flexibility for conduit sizing
- Built-in strain relief cord clamps
- Line or low voltage wiring
- Complete compliance with UL Standard 1241

| CAT. NO. | UPC CODE | DESCRIPTIONS | CONDUIT HUBS |
|---|---|---|---|
| JBP75175 | 95457 | Two Light Junction Box | 3/4" / 1/2" / 1" |
| JBP57510 | 95485 | Four Light Junction Box | 1/2" / 3/4" / 3/4" / 1" / 1" |

# TIMER MECHANISMS



## APPLICATIONS

- Replacement timer for pool mechanism
- OEM panel mount timer

## FEATURES

**SCHEDULING:** Minimum ON setting is 15 minutes with minimum OFF setting at 15 minutes. Dial has 96 captive tabs.

**EASY-SET:** Real time clock face and day/night markings for setting trippers.

**BYPASS SWITCH:** Sets timer to permanent ON, OFF or timer operation.

| CAT. NO. | UPC CODE | INPUT VOLTAGE (VAC) 60 Hz | OUTPUT CONTACTS |
|---|---|---|---|
| 75151 | 94062 | 125 | SPDT |
| 75152 | 94063 | 240 | SPDT |

| LOAD TYPE | RATINGS 75151 VOLTAGE (VAC) | RATINGS 75152 VOLTAGE (VAC) |
|---|---|---|
| General Purpose | 125, 15A | 240, 15A |
| Resistive | - | 240, 15A |
| Motor | - | 240, 3/4 HP |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 240VAC, 60Hz (varies by model).

**TIMING ACCURACY:** Line frequency.

**TERMINAL:** Male 1/4" spade connection

**OPERATING TEMPERATURE:** -40 °F to +158 °F (-40 °C to +70 °C).

**POWER CONSUMPTION:** 5mA max.

**SIZE:** 60 x 60 x 35mm

**MOUNTING:** 4 mounting holes 54mm square

# DPC201 SERIES
## DIGITAL TWO-SPEED PUMP TIMER



## APPLICATIONS

- Swimming pools with two-speed pump motors

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:** 120-277VAC, 50/60Hz (automatic detection).

**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:** -40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 6VA max.

**ENCLOSURE:** Indoor/Outdoor NEMA 3 Metal with locking hasp. See pages 589-593 for dimensions and additional enclosure information.

## FEATURES

**PUMP PROTECTION:** Unit always starts on HIGH with 5 minute countdown before switching to low.

**SCHEDULING:** Up to 3 HIGH/LOW/OFF cycles repeat each day. Minimum setting 5 minute.

**MANUAL OVERRIDE:** Hold OFF until midnight then follows the next regularly scheduled HIGH/LOW/OFF operation.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

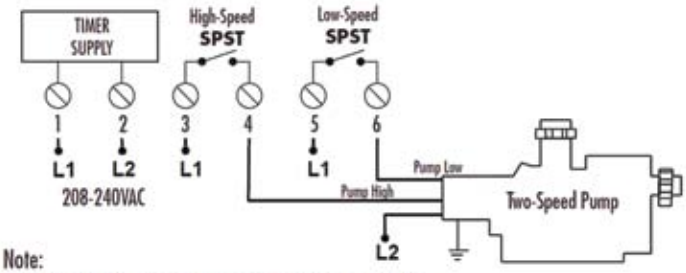
**LEAP YEAR:** Automatic Compensation.

**CLOCK FORMAT:** AM/PM

**POWER OUTAGE BACKUP:** Permanent schedule retention. Super capacitor provides 4 days of real time backup.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50-60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| DPC201 | 82457 | 120-277 | SPST |

| LOAD TYPE | RATINGS | |
|---|---|---|
| | 120VAC | 208-277VAC |
| Motor | 1HP | 1 1/2 HP@208VAC<br>2 HP@240-277VAC |
| Resistive | 40A | 40A |
| Inductive | 40A | 40A |
| Ballast | 30A | 20A |
| Tungsten | 15A | - |
| Pilot Duty | 720VA | 720VA |




Note:
A) Power must be supplied to each terminal marked L1
B) For 120VAC motors use Neutral in place of L2

# TPX SERIES
## DIGITAL TWO-SPEED PUMP TIMER




TPX100

TPX600

## APPLICATIONS

- Swimming pool and spa lighting
- Submersible fixtures
- Landscape lighting
- Fountain lighting

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC 60 Hz.

**OUTPUT VOLTAGE:**
TPX100(S): 12 & 13 VAC 100 Watts max.
TPS300(S): 12, 13, & 14 VAC
300 Watts max.
TPX600: 12, 13, & 14 VAC 2 x 300 Watts max.

**COLOR:** Grey or Stainless Steel.

**ENCLOSURE SIZE:** TPX100(S) and TPX300(S) 7.2 H x 5.1 W x 4.2 D inches.
TPX600 10.4 H x 7.3 W x 4.2 D inches.

## FEATURES

**LOW VOLTAGE:** Designed for the safe operation of 12 volt lighting loads including no niche fixtures.

**POOL & SPA:** 100 watt unit for outdoor use only. 300 and 600 watt units for indoor or outdoor use.

**LANDSCAPE LIGHTING:** 100 watt unit for outdoor use only. 300 and 600 watt units for indoor or outdoor use. All units for outdoor use only in Canada.

**SAFE OPERATION:** Full ground shield between primary and secondary.

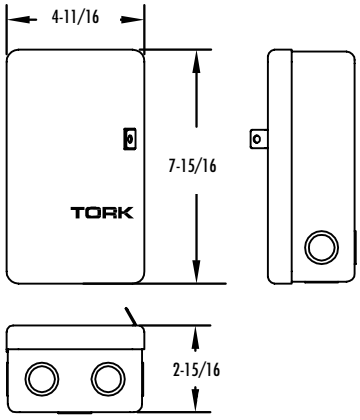
**OVERLOAD PROTECTION:** Automatic resetting internal overload protection.

| CAT. NO. | UPC CODE | INPUT SUPPLY 60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| TPX100 | 94052 | 120VAC 1 AMP Max. | Painted Steel |
| TPX100S | 94053 | 120VAC 1 AMP Max. | Stainless Steel |
| TPX300 | 94054 | 120VAC 3 AMP Max. | Painted Steel |
| TPX300S | 94055 | 120VAC 3 AMP Max. | Stainless Steel |
| TPX600 | 94056 | 120VAC 2 x 3 AMP Max. | Painted Steel |

# ENCLOSURES

## Standard For Models — Metal Indoor NEMA 1 Enclosure #68229

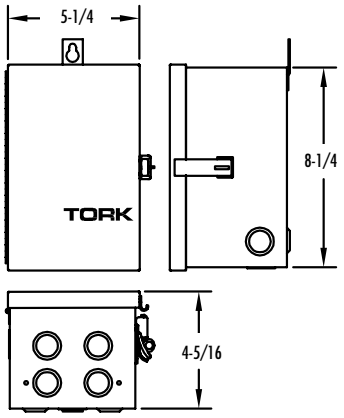
| | |
|---|---|
| 1101B | 7122 |
| 1102B | 8001 |
| 1103B | 8004 |
| 1104B | 8061 |
| 1101FM | 8121 |
| 1104FM | 8301 |
| 7100 | 8602 |
| 7102 | TU40-Y |
| 7200 | EW101B-Y |
| 7202 | EW103B-Y |
| 1101-7 | EW201-Y |
| WH2B | EW120B-Y |
| 7120 | |




## Standard For Models — METAL Indoor/Outdoor NEMA 3 Model 9000A – Suffix "O"

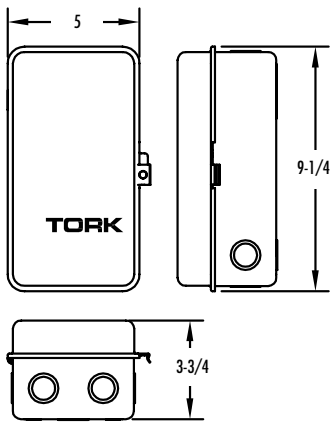
7300, L, Z, ZL
7302, L, Z, ZL
8007U-O
8001-O
8001U-O
8007-O
DZS100BP-O
DZS200BP-O
DZM200BP-O
DZS200BP-O
DW200B-O

NEMA 1 enclosures standard for model 5401A



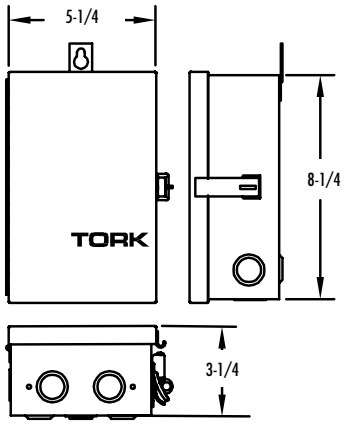

## Standard For Models — Metal Indoor NEMA 1 Enclosure #63100-6

| | |
|---|---|
| 7220 | LDS-A |
| 7200L | LDSH-A |
| 7202L | DG100A-Y |
| 7120L | DGM100A-Y |
| 1847A | DGU100A-Y |
| 8007 | DGUM100A-Y |
| 8007L | LC200 |
| 8007U | 8001U |
| 8008 | |
| 8008L | |



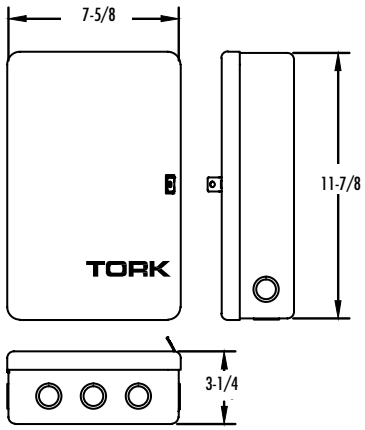

## Standard For Models — METAL Indoor/Outdoor Model 9000B – Suffix "O"

1103B-O
1104B-O
DPC201



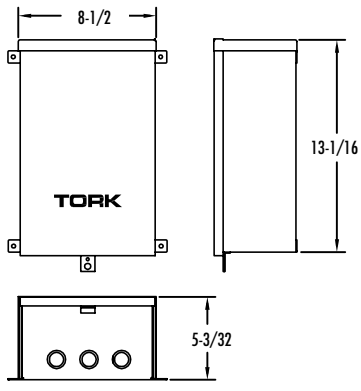

## Standard For Models — Metal Indoor NEMA 1 Enclosure #70100

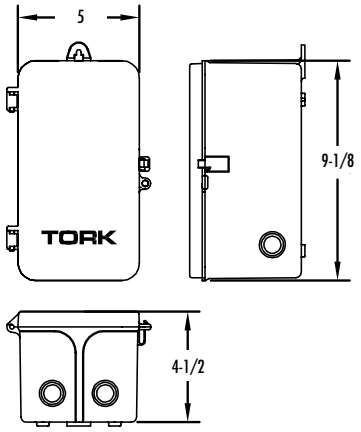
W100
W200
W202
W120
W220
W222
W220L
W222L
1847 AW
W400B
W402B
W400BL

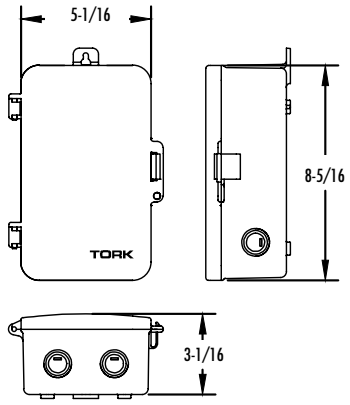


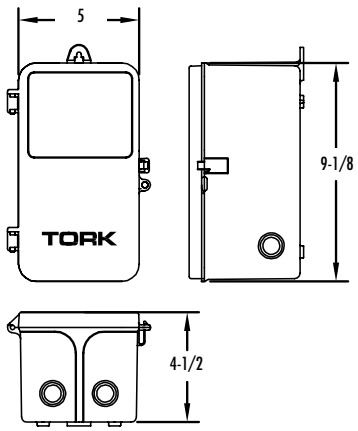

## Standard For Models — Metal Indoor/Outdoor Model #9006

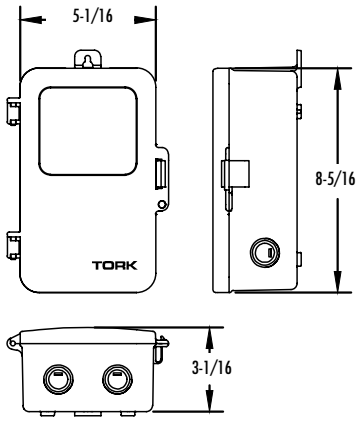
TZ220L-O
TZ300L-O
T920L-O
T930L-O

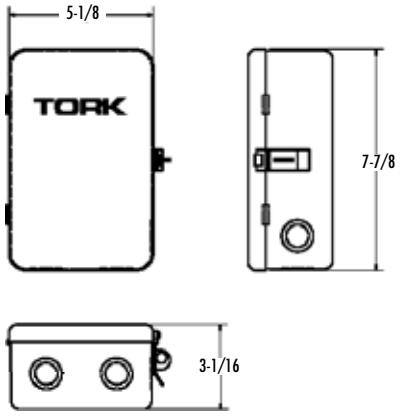


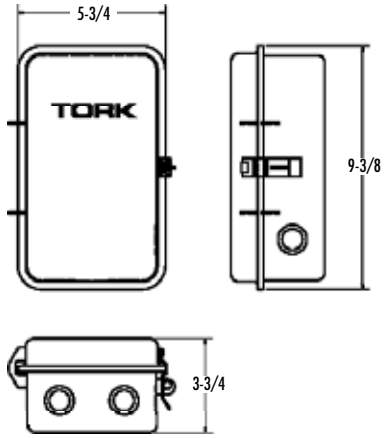
| Standard For Models | NORYL® Indoor/Outdoor NEMA 3R Model #9000N |
|---|---|
| 7200Z, ZL<br>7202Z, ZL<br>7120Z, ZL<br>7122Z, ZL<br>8001-N<br>8001U-N<br>SMC-3D<br>D Series<br>DZM Series<br>DZS Series<br>DTS Series<br>DW Series<br>DWZ Series |  |

| Standard For Models | Polycarbonate Indoor/Outdoor NEMA 3R #74431-1 |
|---|---|
| TU40<br>1101B-P<br>1103B-P<br>1104B-P<br>EH20C<br>DTU40<br>E101PB<br>E Series<br>EW Series<br>EWZ Series |  |

| Standard For Models | NORYL® & LEXAN® Indoor/Outdoor NEMA 3R Model #9000NC |
|---|---|
| 8001-NC<br>DGLC100A-NC<br>DGLC200A-NC |  |

| Standard For Models | Polycarbonate Indoor/Outdoor NEMA 3R With Clear Cover |
|---|---|
| 1101B-PC<br>1103B-PC<br>1104B-PC<br>EW103B-C<br>EW120B-C<br><br>NEMA 1 enclosure standard for models DTWH40 |  |

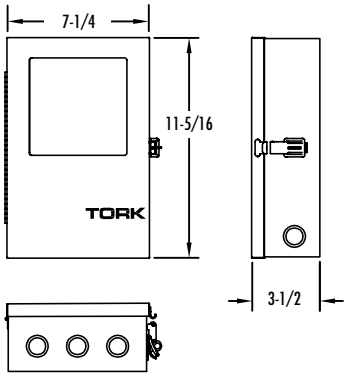
| Standard For Models | Metal Indoor |
|---|---|
| SA300<br>SA306 |  |

| Standard For Models | Metal Indoor/Outdoor |
|---|---|
| SA400 |  |

# ENCLOSURES

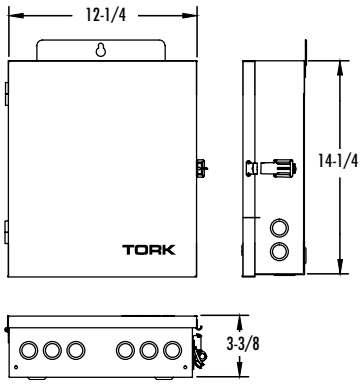
## Standard For Models — ELC74 Enclosure

ELC74



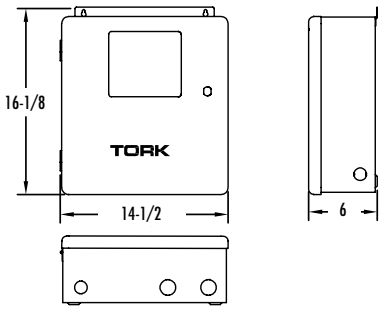

## Standard For Models — DLC400BP

DLC400BP



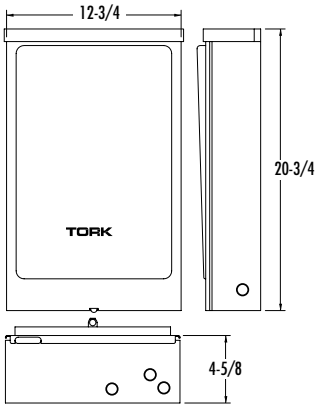

## Standard For Models — ELC78 & ELC712 Enclosure

ELC78
ELC712



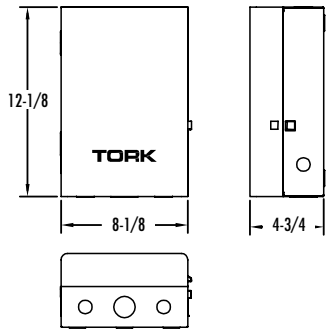

## Standard For Models — 5441A

5441A



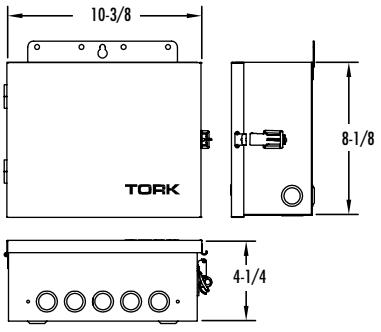

## Standard For Models — Metal Indoor NEMA 1 Enclosure Model #63016-1

TZ220L
TZ300L
W300
W300L
W302L
TW220L
TW300L
T920L
T930L
TW222L
TW302L



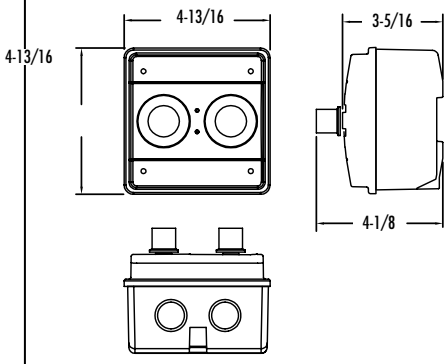

## Standard For Models — Metal Duplex Indoor/Outdoor Model #9004L

1101D
1104D
1104DF



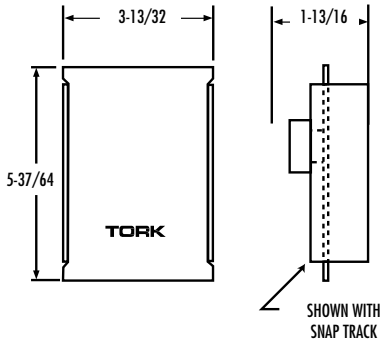
## Standard For Models — EWJT & E500T Series Enclosure

EJWT
E500T
E501T
E502T
ACT30MA



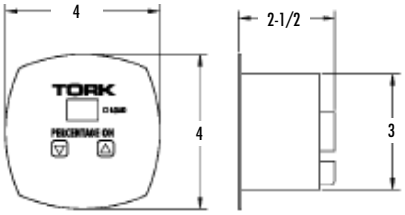

## Standard For Models — LDS Series Mounting with Bracket

LDS

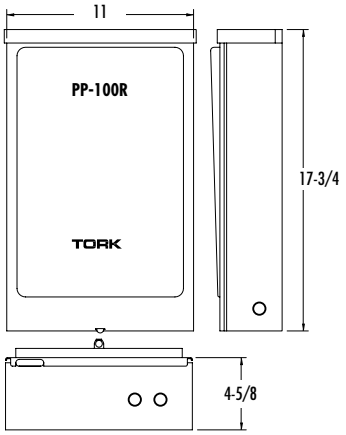


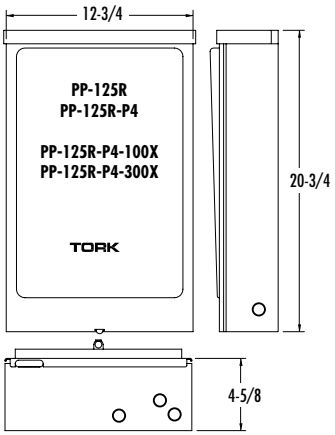

## Standard For Models — PCT15M

PCT15M



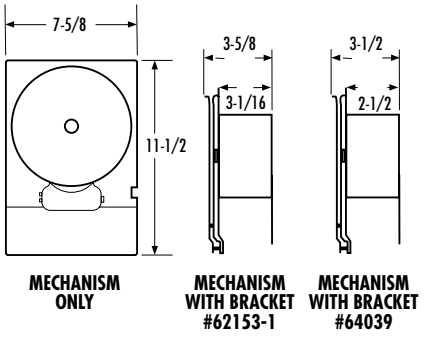

## Pool Panel Series



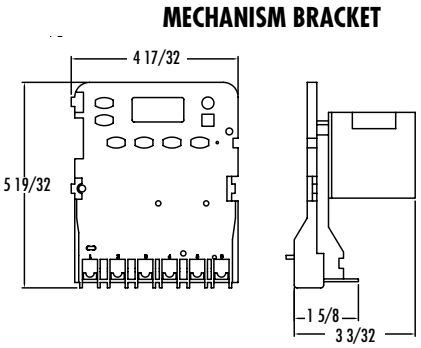
## Option For Models — Mechanism & Mounting Bracket

Use bracket
#64039
W100
W120
W200
W220
W202
W222
Use bracket
#62153-1
W300
W302



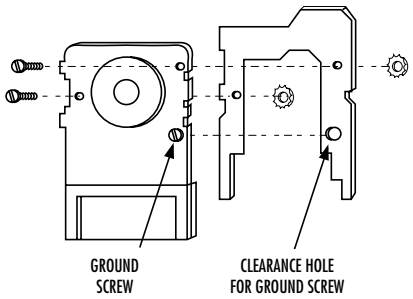

## Standard For Models — W/EW/EWZ Series — Bracket #65447

EWZ101-MB
EWZ103-MB
EWZ120-MB
EWZ201-MB



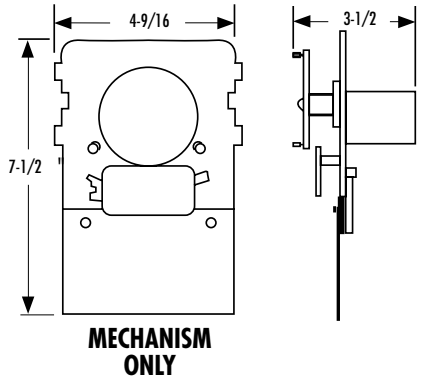

## Standard For Models — IAP Bracket Intermatic® Adapter Plate

1101BM-IAP
1104BM-IAP
Option For Models
1102B
1103B
7100
7102
7200
7202
7120
7122
E Series
EW Series
EWZ Series




## Standard For Models — Mechanism & Mounting Bracket #65447

8001-LC/WB
1101-M
1102-M
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7000 Series
1847A
8121
8601
8301



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# NOTES

# NOTES

# NOTES

# NOTES

NSi Vendor Number: **662381**
TORK Vendor Number: **786261**

## OTHER PRODUCTS AVAILABLE

NSi can provide many other products for special applications which are not listed in this catalog. If you require an item which you do not find listed, please contact us. We would be pleased to provide a quotation upon receipt of a drawing or a sample.


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Find Us On:


## GUARANTEE

It is our goal to provide extraordinary products and services on a daily basis. If our products or service do not meet with your satisfaction, please let us know immediately and we promise to make every reasonable effort to remedy the situation.

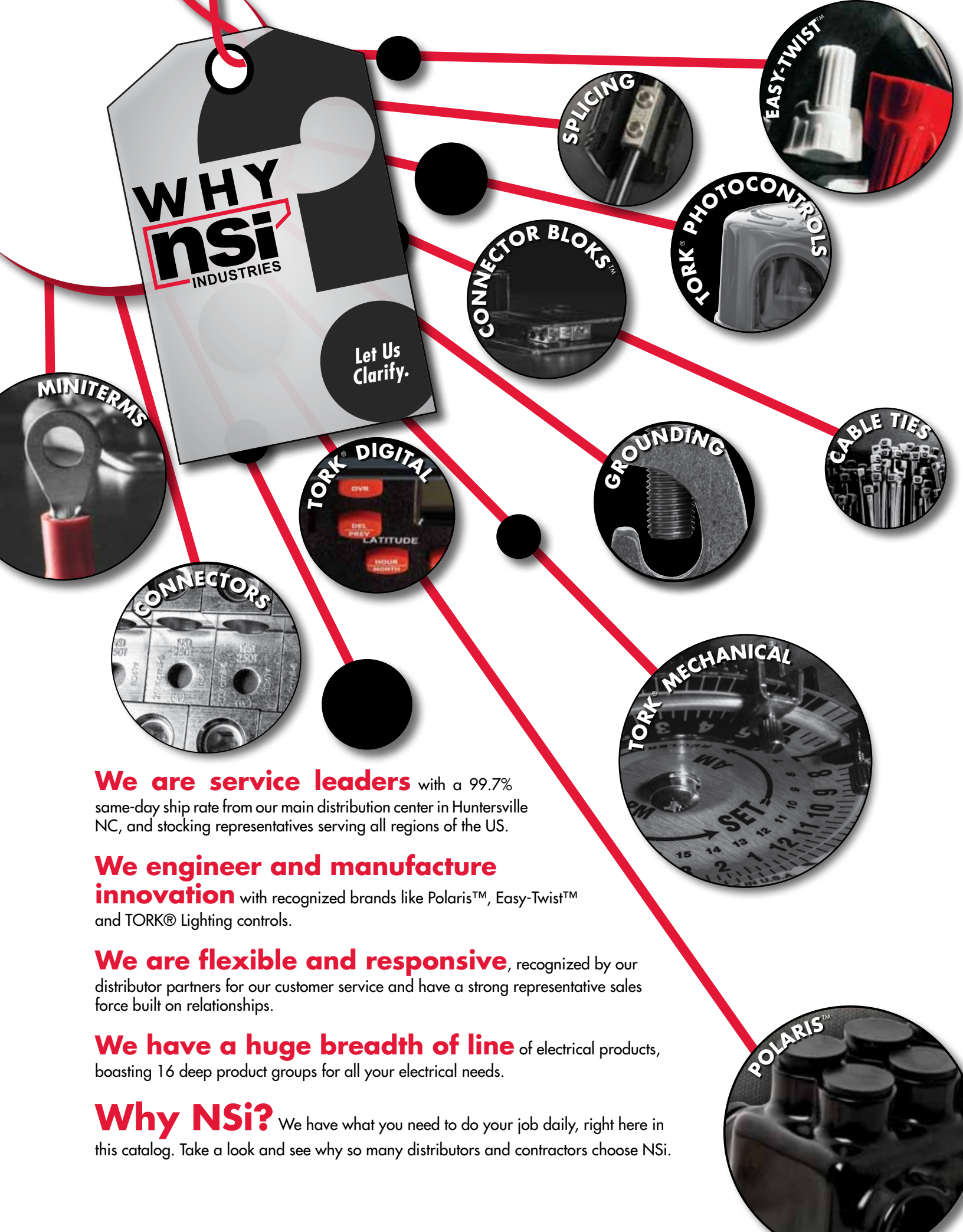
nsi INDUSTRIES

responsible energy




**TORK® POLARIS™ EASY-TWIST™**

**EASY-WRAP™ MINITERMS EASY-SPLICE™ EASY-TAP™ TORK*ALERT*™**




**We are service leaders** with a 99.7% same-day ship rate from our main distribution center in Huntersville NC, and stocking representatives serving all regions of the US.

**We engineer and manufacture innovation** with recognized brands like Polaris™, Easy-Twist™ and TORK® Lighting controls.

**We are flexible and responsive**, recognized by our distributor partners for our customer service and have a strong representative sales force built on relationships.

**We have a huge breadth of line** of electrical products, boasting 16 deep product groups for all your electrical needs.

**Why NSi?** We have what you need to do your job daily, right here in this catalog. Take a look and see why so many distributors and contractors choose NSi.

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# CONNECTORS

MECHANICAL CONNECTORS

# Aluminum Dual Rated Single & Double Lugs

T SERIES



## FEATURES

- Versatile and reusable set-screw connectors made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

## RATINGS

c UL us LISTED WIRE CONNECTOR

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

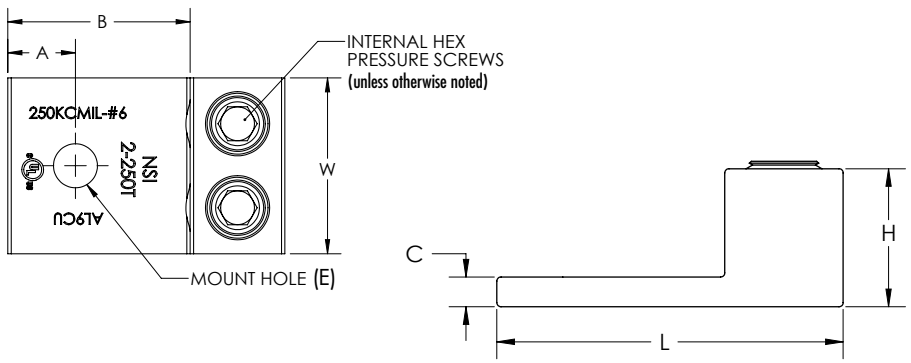
| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **6T** | 1 | 6-14 AWG |
| **4T** | 1 | 4-14 AWG |
| **2T** | 1 | 2-14 AWG |
| **0T** | 2 | 1/0-14 AWG |
| **2-0T** | 3 | 1/0-14 AWG |
| **2/0T** | 2 | 2/0-14 AWG |
| **2-2/0T** | 3 | (2) 2/0-14 AWG |
| **3/0T** | 2 | 3/0-6 AWG |
| **250T** | 2 | 250 MCM-6 AWG |
| **2-250T** | 3 | (2) 250 MCM-6 AWG |
| **300T** | 2 | 300 MCM - 6 AWG |
| **350T** | 2 | 350 MCM-6 AWG |
| **2-350T** | 3 | (2) 350 MCM-6 AWG |
| **500T** | 2 | 500 MCM - 4 AWG |
| **600T** | 2 | 600 MCM-2 AWG |
| **2-600T** | 3 | (2) 600 MCM-2 AWG |
| **800T** | 2 | 800-300 MCM |
| **2-800T** | 3 | (2) 800-300 MCM |
| **1000T** | 2 | 1000-350 MCM |
| **2-1000T** | 3 | (2) 1000-350 MCM |



| MTG. BOLT SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. HOLE DIA.(E) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/4 | 45 | Slotted | 0.265 | 1.060 | 0.500 | 0.500 | 0.250 | 0.690 | 0.100 | 100 |
| 1/4 | 45 | Slotted | 0.265 | 1.060 | 0.375 | 0.500 | 0.250 | 0.690 | 0.094 | 100 |
| 1/4 | 50 | Slotted | 0.265 | 1.160 | 0.500 | 0.550 | 0.310 | 0.690 | 0.100 | 100 |
| 1/4 | 120 | 3/16 | 0.265 | 1.470 | 0.630 | 0.790 | 0.440 | 0.850 | 0.190 | 50 |
| 1/4 | 120 | 3/16 | 0.265 | 1.470 | 1.130 | 0.790 | 0.440 | 0.850 | 0.190 | 50 |
| 1/4 | 120 | 3/16 | 0.265 | 1.470 | 0.630 | 0.790 | 0.440 | 0.850 | 0.190 | 50 |
| 1/4 | 120 | 3/16 | 0.265 | 1.470 | 1.250 | 0.790 | 0.440 | 0.850 | 0.190 | 50 |
| 1/4 | 250 | 3/16 | 0.265 | 1.875 | 0.700 | 0.890 | 0.500 | 0.850 | 0.145 | 50 |
| 5/16 | 330 | 5/16 | 0.328 | 2.000 | 0.880 | 1.020 | 0.470 | 1.130 | 0.220 | 24 |
| 5/16 | 330 | 5/16 | 0.328 | 2.560 | 1.630 | 1.020 | 0.630 | 1.690 | 0.220 | 10 |
| 5/16 | 330 | 5/16 | 0.328 | 2.000 | 0.880 | 1.130 | 0.500 | 1.000 | 0.250 | 24 |
| 3/8 | 400 | 5/16 | 0.406 | 2.250 | 0.990 | 1.130 | 0.500 | 1.250 | 0.250 | 20 |
| 3/8 | 400 | 5/16 | 0.406 | 2.880 | 1.920 | 1.130 | 0.630 | 1.880 | 0.250 | 8 |
| 3/8 | 550 | 3/8 | 0.406 | 2.750 | 1.200 | 1.410 | 0.630 | 1.630 | 0.310 | 6 |
| 3/8 | 550 | 3/8 | 0.406 | 3.180 | 1.380 | 1.510 | 0.630 | 1.930 | 0.380 | 6 |
| 1/2 | 550 | 3/8 | 0.531 | 3.180 | 2.410 | 1.510 | 0.630 | 1.930 | 0.380 | 4 |
| 1/2 | 550 | 1/2 | 0.531 | 3.250 | 1.440 | 1.690 | 0.630 | 1.880 | 0.440 | 6 |
| 1/2 | 550 | 1/2 | 0.531 | 3.250 | 2.750 | 1.690 | 0.880 | 1.880 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.531 | 3.250 | 1.690 | 1.880 | 0.750 | 1.750 | 0.440 | 6 |
| 1/2 | 600 | 9/16 | 0.531 | 3.250 | 3.190 | 1.880 | 0.880 | 1.750 | 0.440 | 2 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Panelboard Lugs

L SERIES



## FEATURES

- Panelboard style for multi-conductor with NEMA mounting hole spacing for turn-prevent and secureness.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

## RATINGS

c UL us LISTED WIRE CONNECTOR

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

All dimensional data is listed in inches.
All hole spacing is NEMA Std of 1.750"

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **250L2** | 1 | 250 MCM-6 AWG |
| **2-250L2** | 2 | (2) 250 MCM-6 AWG |
| **3-250L2/L4** | 3 | (3) 250 MCM-6 AWG |
| **350L2** | 1 | 350 MCM-6 AWG |
| **2-350L2** | 2 | (2) 350 MCM-6 AWG |
| **3-350L2/L4** | 3 | (3) 350 MCM-6 AWG |
| **600L2** | 1 | 600 MCM-2 AWG |
| **2-600L2** | 2 | (2) 600 MCM-2 AWG |
| **3-600L2/L4** | 3 | (3) 600 MCM-2 AWG |
| **800L2** | 1 | 800-350 MCM |
| **2-800L2** | 2 | (2) 800-350 MCM |
| **3-800L2/L4** | 3 | (3) 800-350 MCM |
| **1000L2** | 1 | 1000-500 MCM |
| **2-1000L2** | 2 | (2) 1000-500 MCM |
| **3-1000L2/L4** | 3 | (3) 1000-500 MCM |

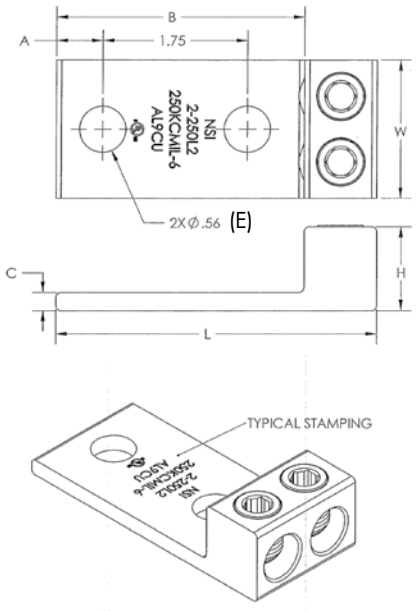




nsi INDUSTRIES



| MTG. BOLT SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. HOLE DIA. (E) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 330 | 5/16 | 0.560 | 4.310 | 0.880 | 1.380 | 0.560 | 3.090 | 0.310 | 15 |
| 1/2 | 330 | 5/16 | 0.560 | 3.880 | 1.690 | 1.020 | 0.560 | 3.010 | 0.220 | 6 |
| 1/2 | 330 | 5/16 | 0.560 | 3.880 | 2.500 | 1.020 | 0.560 | 3.010 | 0.220 | 3 |
| 1/2 | 400 | 5/16 | 0.560 | 4.310 | 0.990 | 1.380 | 0.630 | 3.090 | 0.310 | 8 |
| 1/2 | 400 | 5/16 | 0.560 | 4.250 | 1.920 | 1.130 | 0.630 | 3.250 | 0.250 | 4 |
| 1/2 | 400 | 5/16 | 0.560 | 4.250 | 2.920 | 1.130 | 0.630 | 3.250 | 0.250 | 2 |
| 1/2 | 550 | 3/8 | 0.560 | 4.650 | 1.380 | 1.510 | 0.630 | 3.400 | 0.380 | 4 |
| 1/2 | 550 | 3/8 | 0.560 | 4.650 | 2.406 | 1.510 | 0.630 | 3.400 | 0.380 | 3 |
| 1/2 | 550 | 3/8 | 0.560 | 4.650 | 3.930 | 1.510 | 0.630 | 3.400 | 0.380 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 4.750 | 1.440 | 1.690 | 0.630 | 3.380 | 0.440 | 4 |
| 1/2 | 550 | 1/2 | 0.560 | 4.750 | 2.750 | 1.690 | 0.630 | 3.380 | 0.440 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 4.750 | 4.060 | 1.690 | 0.630 | 3.380 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 4.940 | 1.690 | 1.880 | 0.630 | 3.440 | 0.440 | 4 |
| 1/2 | 600 | 1/2 | 0.560 | 4.940 | 3.190 | 1.880 | 0.630 | 3.440 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 4.940 | 4.690 | 1.880 | 0.630 | 3.440 | 0.440 | 2 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Panelboard Lugs

## L4, LL4, LL2 SERIES



## FEATURES

- Large size set-screw connectors with multiple mounting hole for a secure, turn-prevent connection.
- Made of 6061T-6 aluminum alloy.
- Tin plated for low contact resistance.
- For use with copper or aluminum conductors.

## RATINGS

LISTED
WIRE CONNECTOR
E155027

**TEMPERATURE RATING:**
90 °C.

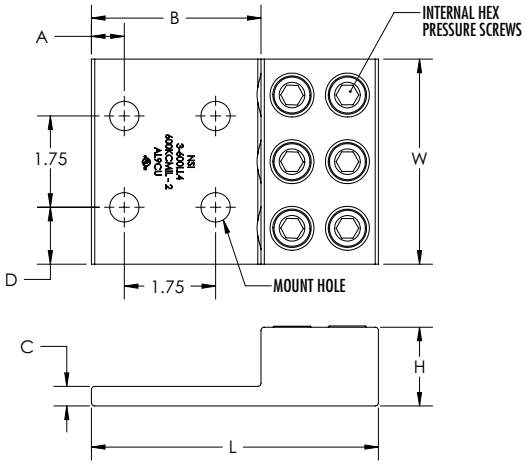
**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

All dimensional data is listed in inches.
All hole spacing is NEMA Std of 1.750"

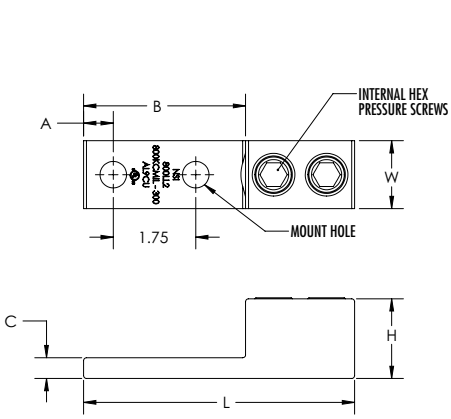
| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **4-250L4** | 1 | 250 MCM-6 AWG |
| **4-350L4** | 1 | 350 MCM-6 AWG |
| **4-600L4** | 1 | 600 MCM-2 AWG |
| **600LL2** | 2 | 600 MCM-2 AWG |
| **3-600LL4** | 3 | 600 MCM-2 AWG |
| **4-600LL4** | 4 | 600 MCM-2 AWG |
| **4-800L4** | 1 | 800-350 MCM |
| **800LL2** | 2 | 800-350 MCM |
| **3-800LL4** | 3 | 800-350 MCM |
| **4-800LL4** | 4 | 800-350 MCM |
| **4-1000L4** | 1 | 1000-500 MCM |
| **1000LL2** | 2 | 1000-500 MCM |
| **3-1000LL4** | 3 | 1000-500 MCM |
| **4-1000LL4** | 4 | 1000-500 MCM |
| **1500LL2*** | 2 | 1500-1000 MCM |

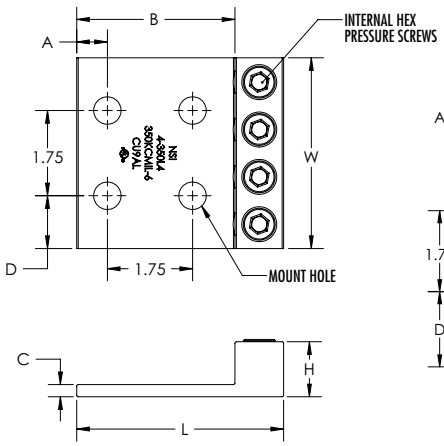
*1500LL2 is not CSA or UL approved.

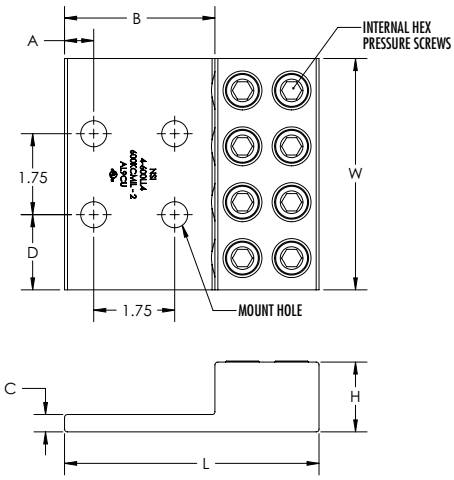




| MTG. BOLT SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. HOLE DIA. (E) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | END OF CONN. TO CTR. HOLE (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 330 | 5/16 | 0.560 | 3.880 | 3.300 | 1.020 | 0.560 | 3.010 | 0.220 | 3 |
| 1/2 | 400 | 5/16 | 0.560 | 4.250 | 3.920 | 1.130 | 0.630 | 3.250 | 0.250 | 2 |
| 1/2 | 550 | 3/8 | 0.560 | 4.650 | 5.000 | 1.510 | 0.630 | 3.400 | 0.380 | 2 |
| 1/2 | 550 | 3/8 | 0.560 | 5.500 | 1.380 | 1.510 | 0.630 | 3.250 | 0.380 | 4 |
| 1/2 | 550 | 3/8 | 0.560 | 5.500 | 3.930 | 1.510 | 0.630 | 3.250 | 0.380 | 2 |
| 1/2 | 550 | 3/8 | 0.560 | 5.500 | 5.000 | 1.510 | 0.630 | 3.250 | 0.380 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 4.750 | 5.380 | 1.690 | 0.630 | 3.380 | 0.440 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 5.750 | 1.440 | 1.690 | 0.630 | 3.440 | 0.440 | 4 |
| 1/2 | 550 | 1/2 | 0.560 | 5.750 | 4.060 | 1.690 | 0.630 | 3.380 | 0.440 | 2 |
| 1/2 | 550 | 1/2 | 0.560 | 5.750 | 5.380 | 1.690 | 0.630 | 3.440 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 4.940 | 6.190 | 1.880 | 0.630 | 3.440 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 6.190 | 1.690 | 1.880 | 0.630 | 3.630 | 0.440 | 4 |
| 1/2 | 600 | 9/16 | 0.560 | 6.190 | 4.690 | 1.880 | 0.630 | 3.440 | 0.440 | 2 |
| 1/2 | 600 | 9/16 | 0.560 | 6.180 | 6.190 | 1.880 | 0.630 | 3.630 | 0.440 | 2 |
| 1/2 | - | 9/16 | 0.560 | 6.625 | 2.000 | 1.975 | 0.650 | 3.175 | 0.750 | 4 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Stacked Lugs

T2 SERIES



## FEATURES

- Large size set-screw connectors with wire holes stacked on top of each other to minimize the width of the connector.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **300T-2** | 1 | (2) 300 MCM-6 AWG |
| **350T-2** | 2 | (2) 350 MCM-6 AWG |
| **600T-2** | 2 | (2) 600 MCM-2 AWG |
| **600T-3** | 3 | (3) 600 MCM-2 AWG |
| **600T-4** | 4 | (4) 600 MCM-2 AWG |
| **800T-2** | 2 | (2) 800-300 MCM |
| **800T-3** | 3 | (3) 800-300 MCM |
| **800T-4** | 4 | (4) 800-300 MCM |

## RATINGS

UL LISTED
WIRE CONNECTOR
E155027

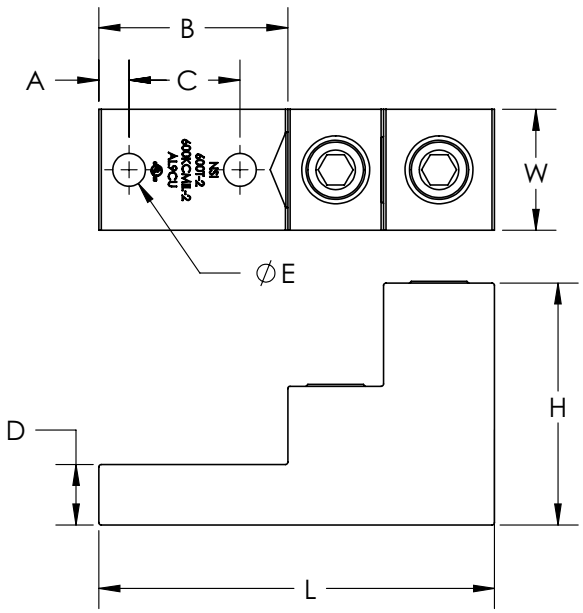
**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |



| MTG. BOLT SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. HOLE DIA. (E) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | END OF CONN. TO CTR. HOLE (A) | TANG LENGTH (B) | TANG THICKNESS (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 5/16" | 330 | 5/16 | 0.330 | 3.000 | 1.000 | 2.000 | 0.470 | 1.000 | 0.310 | 10 |
| 5/16" | 400 | 5/16 | .33 X .43 | 3.560 | 1.060 | 2.000 | 0.470 | 1.560 | 0.250 | 10 |
| 3/8 | 550 | 3/8 | 0.410 | 4.910 | 1.500 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 3/8 | 0.410 | 4.910 | 2.500 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 3/8 | 0.410 | 4.910 | 2.500 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 3/8 | 0.410 | 4.910 | 1.500 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 1/2 | 0.410 | 4.910 | 2.630 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |
| 3/8 | 550 | 1/2 | 0.410 | 4.910 | 2.630 | 3.000 | 0.380 | 2.340 | 0.750 | 2 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Splicer/Reducers

SR SERIES



## FEATURES

- For splicing two copper or aluminum wires of equal or different sizes.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **2SR** | 1 | 2-14 AWG |
| **1/0SR** | 1 | 1/0-14 AWG |
| **4/0SR** | 1 | 4/0-6 AWG |
| **250SR** | 2 | 250 MCM-6 AWG |
| **350SR** | 2 | 350 MCM-6 AWG |
| **500SR** | 2 | 500 MCM-3/0 AWG |
| **750SR** | 2 | 750-250 MCM |

## RATINGS

LISTED
WIRE CONNECTOR

UL 486A/B Listed.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).

| 1 | 2 |
|---|---|
|  |  |





| TORQUE VALUE (IN./LBS.) | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| 50 | Slotted | 1.594 | 0.443 | 0.550 | 50 |
| 120 | Slotted | 1.500 | 0.530 | 0.630 | 25 |
| 250 | 5/16 | 2.310 | 0.812 | 1.000 | 24 |
| 330 | 5/16 | 4.094 | 0.812 | 1.000 | 10 |
| 400 | 3/8 | 4.190 | 1.130 | 1.190 | 8 |
| 550 | 3/8 | 5.000 | 1.380 | 1.500 | 3 |
| 550 | 3/8 | 6.250 | 1.630 | 1.750 | 3 |

FIG. 1

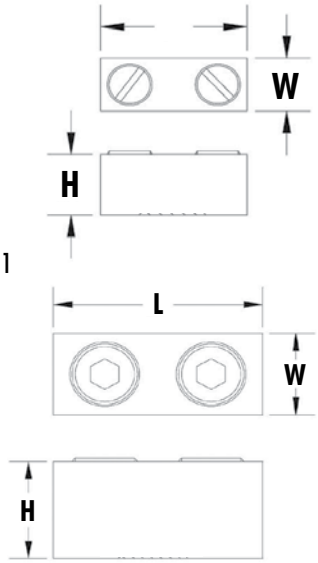
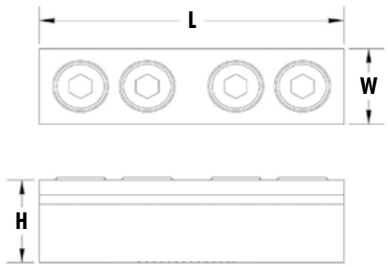



FIG. 2



MECHANICAL CONNECTORS

# Aluminum Dual Rated Turn-prevent Lugs

TP, BTP SERIES



## FEATURES

### DUAL RATED LUGS

- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

### ALUMINUM BOX LUGS WITH TURN-PREVENT

- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Design includes threaded mounting hole.

## RATINGS

**TEMPERATURE RATING:**
Single/Double TP Lugs: 90 °C.
Box TP Lugs: 75 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **2/0TP** | 1 | 2/0-14 AWG |
| **300TP** | 1 | 300 MCM-6 AWG |
| **350TP** | 1 | 350 MCM-6 AWG |
| **2-350TP** | 2 | (2) 350 MCM-6 AWG |
| **600TP** | 1 | 600 MCM-2 AWG |
| **2-600TP** | 2 | (2) 600 MCM-2 AWG |

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **BTP 0** | 3 | 0-10 AWG |
| **BTP 300** | 4 | 300 MCM-6 AWG |
| **S300** | 5 | 300 MCM-6 AWG |
| **BTP 350** | 6 | 350 MCM-6 AWG |

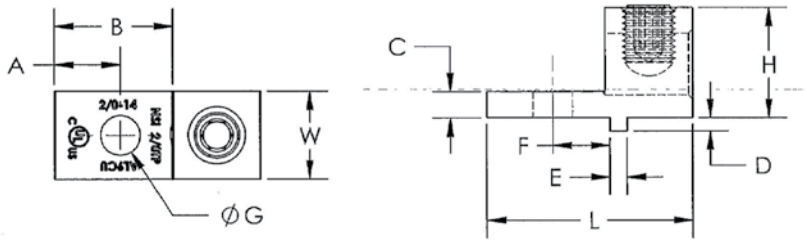
| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | **6** |
|  |  |  |



| LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | TURN PVT. LENGTH (D) | TURN PVT. THICKNESS (E) | MTG. HOLE TO TURN PVT. (F) | HOLE DIA. | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | MTG. BOLT SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.470 | 0.880 | 1.130 | 0.470 | 0.840 | 0.190 | 0.090 | 0.130 | 0.410 | 0.280 | 120 | 3/16 | 1/4 | 50 |
| 2.000 | 0.990 | 1.130 | 0.380 | 1.000 | 0.250 | 0.090 | 0.190 | 0.490 | 0.440 | 330 | 5/16 | 7/16 | 24 |
| 2.250 | 0.990 | 1.130 | 0.500 | 1.250 | 0.250 | 0.090 | 0.190 | 0.630 | 0.340 | 400 | 5/16 | 5/16 | 20 |
| 2.250 | 1.920 | 1.130 | 0.500 | 1.125 | 0.250 | 0.090 | 0.187 | 0.630 | 0.406 | 400 | 5/8 | 3/8 | 8 |
| 3.180 | 1.380 | 1.510 | 0.880 | 1.930 | 0.380 | 0.090 | 0.190 | 0.630 | 0.530 | 550 | 3/8 | 1/2 | 6 |
| 3.180 | 2.410 | 1.510 | 0.880 | 1.930 | 0.380 | 0.130 | 0.190 | 0.630 | 0.530 | 550 | 3/8 | 1/2 | 4 |

| TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | MTG. BOLT SIZE | WIDTH (A) | HEIGHT (B) | LENGTH (C) | MTG. HOLE DIA. (D) | TURN PVT. TO MTG. HOLE (X) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 120 | 0.312 | # 10 | 0.660 | 0.830 | 0.620 | # 10 | 0.230 | 25 |
| 325 | 0.375 | 1/4 | 0.970 | 1.160 | 0.980 | 0.250 | 0.385 | 40 |
| 325 | 0.375 | 1/4 | 0.880 | 1.090 | 0.880 | 0.250 | 0.312 | 25 |
| 375 | 0.375 | 1/4 | 0.880 | 1.100 | 0.880 | 0.250 | 0.440 | 48 |

**LUG WITH Turn-prevent**




**BOX LUGS**

FIG. 3

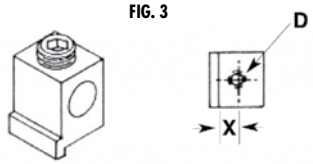



FIG. 6

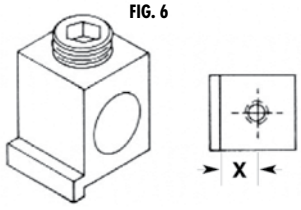



FIG. 4

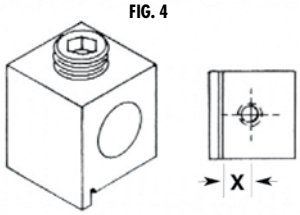
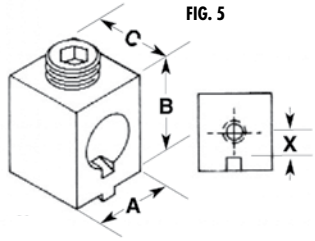



FIG. 5



MECHANICAL CONNECTORS

# Aluminum Dual Rated Lay-In & Dual Range Lugs

GLA, BS SERIES



## FEATURES

### DUAL RATED LAY-IN LUGS

- Lay-in connectors offer the ultimate in flexibility.
- Excellent for grounding and continuous loop applications.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

### DUAL RANGE LUGS

- Set-screw connectors that will accept either one or two wires.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **GLA-4** | 1 | 4-14 AWG |
| **GLA-0** | 1 | 1/0-8 AWG |
| **GLA-000** | 1 | 3/0-6 AWG |
| **GLA-250** | 2 | 250 MCM-6 AWG |
| **BS400T2** | 3 | (2) 250 MCM-1/0 AWG |
| | 3 | (4) 250 MCM-1/0 AWG |
| **BS400T** | 4 | (1) 600 MCM-4 AWG |
| | 4 | (2) 250 MCM-1/0 AWG |

## RATINGS

**TEMPERATURE RATING:**
Dual Rated Lay-In: 90 °C.
Dual Rated Dual Range: 90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed.

| 1 | 2 | 3 | 4 |
|---|---|---|---|
|  c UL us LISTED WIRE CONNECTOR |  701642 |  701642 LISTED WIRE CONNECTOR |  701642 LISTED WIRE CONNECTOR |



| TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | MTG. BOLT SIZE | LENGTH (A) | HEIGHT (B) | WIDTH (C) | MTG. HOLE DIA. (D) | TANG LENGTH (F) | TANG THICKNESS (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 45 | Slotted | 0.187 | 1.070 | 0.750 | 0.380 | 0.218 | 0.190 | 0.150 | 100 |
| 120 | Slotted | 0.250 | 1.500 | 1.100 | 0.600 | 0.272 | 0.300 | 0.220 | 40 |
| 250 | 0.250 | 0.375 | 2.000 | 1.500 | 0.800 | 0.330 | 0.400 | 0.300 | 20 |
| 330 | 0.250 | 0.375 | 2.200 | 1.700 | 0.800 | 0.330 | 0.400 | 0.300 | 20 |
| 500 | 0.375 | 0.250 | 3.812 | 2.000 | 2.468 | 0.281 | .325 | 0.375 | 4 |
| 500 | 0.375 | 0.250 | 3.812 | 2.000 | 2.468 | 0.281 | .325 | 0.375 | 4 |
| 500 | 0.375 | 0.562 | 2.810 | 1.810 | 1.380 | 0.625 | .725 | 0.312 | 6 |
| 500 | 0.375 | 0.562 | 2.810 | 1.810 | 1.380 | 0.625 | .725 | 0.312 | 6 |

**LAY-IN CONNECTORS**

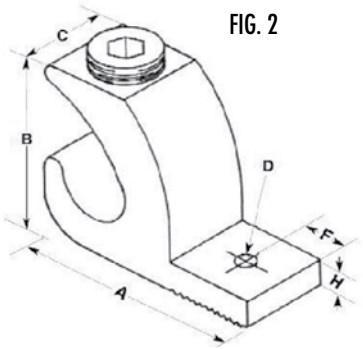



FIG. 2

**DUAL RANGE LUGS**

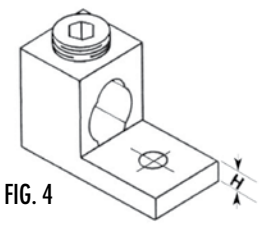



FIG. 4

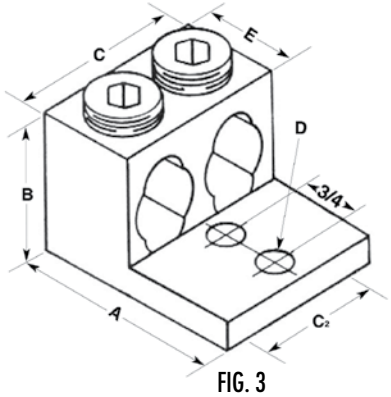



FIG. 3

MECHANICAL CONNECTORS

# Aluminum Dual Rated Tap Connector & Covers

## PARALLEL/"T" FORMAT

## GP, GC SERIES



## FEATURES

- Excellent for tapping of main conductor due to lay-in feature.
- Perpendicular tap allows for parallel or "T" tap configuration.
- Flexible cover allows for either parallel or "T" tap wire entry.
- Secure snap cover eliminates need for taping.
- Electro-tin plated for low contact resistance.

## RATINGS

LISTED
WIRE CONNECTOR
E155274

701642

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

| 1 | 2 |
|---|---|
|  |  |

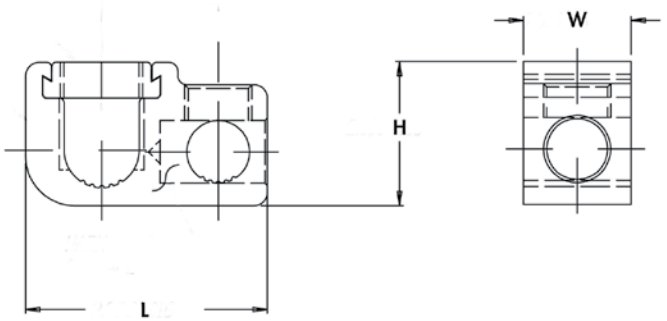
All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | STYLE |
|---|---|---|
| **GP-2** | 1 | Parallel "T" Tap |
| **GP-0** | 1 | Parallel "T" Tap |
| **GP-250-0** | 1 | Parallel "T" Tap |
| **GP-250** | 1 | Parallel "T" Tap |
| **GP-350** | 1 | Parallel "T" Tap |
| **GP-500** | 1 | Parallel "T" Tap |
| **GP-750** | 1 | Parallel "T" Tap |
| **GC-2** | 2 | Insulated Covers |
| **GC-0** | 2 | Insulated Covers |
| **GC-250** | 2 | Insulated Covers |
| **GC-350** | 2 | Insulated Covers |
| **GC-500** | 2 | Insulated Covers |
| **GC-750** | 2 | Insulated Covers |
| **GP-2WC** | 2 | Parallel "T" Tap with Cover |
| **GP-0WC** | 2 | Parallel "T" Tap with Cover |
| **GP-250-0WC** | 2 | Parallel "T" Tap with Cover |
| **GP-250WC** | 2 | Parallel "T" Tap with Cover |
| **GP-350WC** | 2 | Parallel "T" Tap with Cover |
| **GP-500WC** | 2 | Parallel "T" Tap with Cover |
| **GP-750WC** | 2 | Parallel "T" Tap with Cover |



| COLOR CODE | MAIN (RUN) WIRE RANGE | TAP WIRE RANGE | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| - | 2-12 STR | 4-14 STR | 50 | Slotted | 1.390 | 0.630 | 0.880 | 25 |
| - | 1/0-2 AWG | 1/0-14 AWG | 120 | 0.187 | 1.750 | 0.750 | 1.000 | 12 |
| - | 250 MCM-1/0 AWG | 1/0-14 AWG | 120<br>275 | 0.187, 0.312 | 2.030 | 1.060 | 1.310 | 12 |
| - | 250 MCM-1/0 AWG | 250 MCM-6 AWG | 275 | 0.312 | 2.280 | 1.060 | 1.310 | 12 |
| - | 350 MCM-4/0 AWG | 350 MCM-6 AWG | 275 | 0.312 | 2.560 | 1.250 | 1.440 | 6 |
| - | 500-350 MCM | 500-2 MCM | 375 | 0.375 | 3.130 | 1.380 | 1.750 | 6 |
| - | 750-500 MCM | 500-2 MCM | 375 | 0.375 | 3.380 | 1.500 | 2.000 | 3 |
| Yellow | - | - | - | 2.250 | 1.370 | 1.110 | 1.110 | 12 |
| Gray | - | - | - | 2.610 | 2.170 | 1.260 | 1.260 | 6 |
| Red | - | - | - | 3.440 | 3.180 | 1.630 | 1.630 | 3 |
| Yellow | - | - | - | 3.760 | 3.290 | 1.760 | 1.760 | 3 |
| Blue | - | - | - | 4.890 | 3.340 | 2.120 | 2.120 | 3 |
| Orange | - | - | - | 4.550 | 3.450 | 2.340 | 2.340 | 3 |
| Yellow | 2-12 STR | 4-14 STR | 50 | Slotted | 2.250 | 1.370 | 1.110 | 12 |
| Gray | 1/0-2 AWG | 1/0-14 AWG | 120 | 0.187 | 2.610 | 2.170 | 1.260 | 10 |
| Red | 250 MCM-1/0 AWG | 1/0-14 AWG | 120<br>275 | 0.187, 0.312 | 3.440 | 3.180 | 1.630 | 5 |
| Red | 250 MCM-1/0 AWG | 250 MCM-6 AWG | 275 | 0.312 | 3.440 | 3.180 | 1.630 | 5 |
| Yellow | 350 MCM-4/0 AWG | 350 MCM-6 AWG | 275 | 0.312 | 3.760 | 3.290 | 1.760 | 6 |
| Blue | 500-350 MCM | 500-2 MCM | 375 | 0.375 | 4.890 | 3.340 | 2.120 | 2 |
| Orange | 750-500 MCM | 500-2 MCM | 375 | 0.375 | 4.550 | 3.450 | 2.340 | 2 |

**PARALLEL OR "T" TAP CONNECTORS**



MECHANICAL CONNECTORS

# Aluminum Dual Rated Heavy Duty Transformer Lugs

## LL SERIES



## FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Two set-screws per wire hole ensure an exceptional connection.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Mounting hole spacing is NEMA 1¾" spacing is available with the following options: clear plating, anodized set-screws or disc pad screws – contact NSi Customer Service for ordering details.

## RATINGS

Meets or exceeds ANSI C119.4 Class A.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

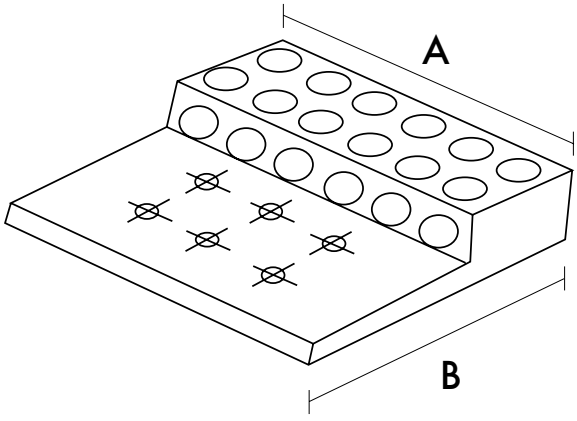
| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | **6** |
|  |  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **350LL2** | 1 | 350 MCM-6 AWG |
| **2-350LL4** | 2 | 350 MCM-6 AWG |
| **3-350LL4** | 3 | 350 MCM-6 AWG |
| **4-350LL6** | 4 | 350 MCM-6 AWG |
| **6-350LL8** | 5 | 350 MCM-6 AWG |
| **8-350LL8** | 6 | 350 MCM-6 AWG |
| **8-350LL10** | 6 | 350 MCM-6 AWG |
| **2-600LL4** | 2 | 600 MCM-2 AWG |
| **4-600LL6** | 4 | 600 MCM-2 AWG |
| **6-600LL6** | 6 | 600 MCM-2 AWG |
| **2-800LL4** | 2 | 800-300 MCM |
| **4-800LL8** | 4 | 800-300 MCM |
| **2-1000LL4** | 2 | 800-300 MCM |
| **4-1000LL8** | 4 | 1000-500 MCM |
| **8-1000LL12** | 6 | 1000-500 MCM |



| NO. OF CONDUCTORS | NO. OF MTG. HOLES | MTG. HOLE DIA. | MTG. HOLE SPACING | WRENCH SIZE | BOLT SIZE | LENGTH (B) (IN.) | WIDTH (A) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 1.130 | 1.380 | 1 |
| 2 | 4 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 2.000 | 1.380 | 1 |
| 3 | 4 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 2.940 | 1.380 | 1 |
| 4 | 6 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 3.870 | 1.380 | 1 |
| 6 | 8 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 5.750 | 1.380 | 1 |
| 8 | 8 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 7.620 | 1.380 | 1 |
| 8 | 10 | 0.563 | 1.750 | 3/8 | 1/2 | 5.310 | 7.620 | 1.380 | 1 |
| 2 | 4 | 0.563 | 1.750 | 3/8 | 1/2 | 5.875 | 2.410 | 1.562 | 1 |
| 4 | 6 | 0.563 | 1.750 | 3/8 | 1/2 | 5.875 | 4.780 | 1.562 | 1 |
| 6 | 6 | 0.563 | 1.750 | 3/8 | 1/2 | 8.750 | 5.750 | 1.750 | 1 |
| 2 | 4 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 2.737 | 1.875 | 1 |
| 4 | 8 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 5.487 | 1.875 | 1 |
| 2 | 4 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 2.982 | 1.875 | 1 |
| 4 | 8 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 5.982 | 1.875 | 1 |
| 8 | 12 | 0.563 | 1.750 | 1/2 | 1/2 | 6.188 | 11.982 | 1.875 | 1 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Transformer Lugs

T, L SERIES



## FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Two set-screws per wire hole ensure an exceptional connection.
- Electro-tin plated for low contact resistance. For use with copper or aluminum conductors.
- Mounting hole spacing is is NEMA 1¾".
- Also available with the following options: clear plating, anodized set-screws or disc pad screws – contact NSi Customer Service for ordering details.

## RATINGS

Meets or exceeds ANSI C119.4 Class A .

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **2-350T2** | 1 | 350 MCM-6 AWG |
| **3-350T2** | 2 | 350 MCM-6 AWG |
| **4-350T3** | 3 | 350 MCM-6 AWG |
| **6-350T4** | 4 | 350 MCM-6 AWG |
| **8-350T4** | 5 | 350 MCM-6 AWG |
| **2-350L4** | 6 | 350 MCM-6 AWG |
| **3-350L4** | 7 | 350 MCM-6 AWG |
| **4-350L6** | 8 | 350 MCM-6 AWG |
| **6-350L8** | 9 | 350 MCM-6 AWG |
| **8-350L8** | 10 | 350 MCM-6 AWG |
| **2-600L4** | 6 | 600 MCM-2 AWG |
| **3-600L4** | 7 | 600 MCM-2 AWG |
| **4-600L6** | 8 | 600 MCM-2 AWG |
| **6-600L8** | 9 | 600 MCM-2 AWG |

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
|  |  |  |  |  |
| **6** | **7** | **8** | **9** | **10** |
|  |  |  |  |  |





| NO. OF CONDUCTORS | NO. OF MTG. HOLES | MTG. HOLE DIA. | MTG. HOLE SPACING | WRENCH SIZE | MTG. BOLT SIZE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. PKG. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 1.940 | 1.250 | 1 |
| 3 | 2 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 2.840 | 1.250 | 1 |
| 4 | 3 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 3.750 | 1.250 | 1 |
| 6 | 4 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 4.660 | 1.250 | 1 |
| 8 | 4 | 0.375 | 1.750 | 3/8" | 5/16" | 2.250 | 5.560 | 1.250 | 1 |
| 2 | 4 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 2.000 | 1.380 | 1 |
| 3 | 4 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 2.940 | 1.380 | 1 |
| 4 | 6 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 3.870 | 1.380 | 1 |
| 6 | 8 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 5.750 | 1.380 | 1 |
| 8 | 8 | 0.563 | 1.750 | 3/8" | 1/2" | 4.310 | 7.620 | 1.380 | 1 |
| 2 | 4 | 0.563 | 1.750 | 3/8" | 1/2" | 4.500 | 2.410 | 1.630 | 1 |
| 3 | 4 | 0.563 | 1.750 | 3/8″ | 1/2″ | 4.500 | 3.590 | 1.630 | 1 |
| 4 | 6 | 0.563 | 1.750 | 3/8" | 1/2" | 4.500 | 4.780 | 1.630 | 1 |
| 6 | 8 | 0.563 | 1.750 | 3/8" | 1/2" | 4.500 | 7.160 | 1.630 | 1 |

MECHANICAL CONNECTORS

# Aluminum Dual Rated Transformer Connectors

## 2 HOLE NEMA PAD MOUNT

## STL SERIES



## FEATURES

- Made from 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- Two NEMA ½" holes for easy attachment.

## RATINGS

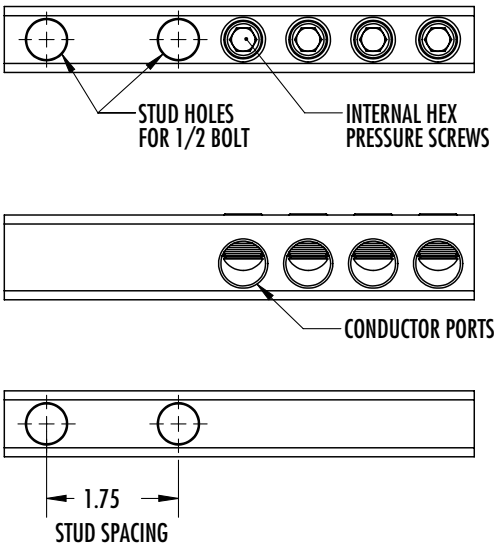
**VOLTAGE:**
600V max.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| **STL250-4** | 250 MCM-6 AWG |
| **STL250-6** | 250 MCM-6 AWG |
| **STL250-8** | 250 MCM-6 AWG |
| **STL350-4** | 350 MCM-6 AWG |
| **STL350-6** | 350 MCM-6 AWG |
| **STL350-8** | 350 MCM-6 AWG |
| **STL500-4** | 500 MCM-4 AWG |
| **STL500-6** | 500 MCM-4 AWG |
| **STL500-8** | 500 MCM-4 AWG |
| **STL750-4** | 750-250 MCM |
| **STL750-6** | 750-250 MCM |
| **STL750-8** | 750-250 MCM |



| NO. OF CONDUCTORS | MTG. HOLE DIA. | MTG. HOLE SPACING | TORQUE VALUE (IN./LBS.) | MTG. BOLT SIZE | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 0.560 | 1.750 | 330 | 1/2 | 5/16 | 6.240 | 0.875 | 1.125 | 6 |
| 6 | 0.560 | 1.750 | 330 | 1/2 | 5/16 | 7.960 | 0.875 | 1.125 | 6 |
| 8 | 0.560 | 1.750 | 330 | 1/2 | 5/16 | 9.680 | 0.875 | 1.125 | 6 |
| 4 | 0.560 | 1.750 | 400 | 1/2 | 5/16 | 6.960 | 1.000 | 1.440 | 6 |
| 6 | 0.560 | 1.750 | 400 | 1/2 | 5/16 | 9.060 | 1.000 | 1.440 | 6 |
| 8 | 0.560 | 1.750 | 400 | 1/2 | 5/16 | 11.160 | 1.000 | 1.440 | 6 |
| 4 | 0.560 | 1.750 | 550 | 1/2 | 5/16 | 7.500 | 1.130 | 1.630 | 6 |
| 6 | 0.560 | 1.750 | 550 | 1/2 | 5/16 | 9.740 | 1.130 | 1.630 | 6 |
| 8 | 0.560 | 1.750 | 550 | 1/2 | 5/16 | 12.030 | 1.130 | 1.630 | 6 |
| 4 | 0.560 | 1.750 | 550 | 1/2 | 3/8 | 8.570 | 1.440 | 2.000 | 3 |
| 6 | 0.560 | 1.750 | 550 | 1/2 | 3/8 | 11.420 | 1.440 | 2.000 | 3 |
| 8 | 0.560 | 1.750 | 550 | 1/2 | 3/8 | 14.280 | 1.440 | 2.000 | 3 |



MECHANICAL CONNECTORS

# Aluminum Dual Rated Secondary Transformer Connectors

## SFTZ SERIES



## FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Electro-tin plated for low contact resistance.
- For use on slip-fit or threaded transformers.
- For use with copper and aluminum conductors.
- Available with street light tap.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| **SFTZ350-6** | 350 MCM-6 AWG |
| **SFTZ350-8** | 350 MCM-6 AWG |
| **SFTZ500-6** | 500 MCM-6 AWG |
| **SOTZ350-6** | 350 MCM-6 AWG |
| **SOTZ350-8** | 350 MCM-6 AWG |
| **SOTZ500-6** | 500 MCM-6 AWG |
| **SOTZ500-8** | 500 MCM-6 AWG |

## RATINGS

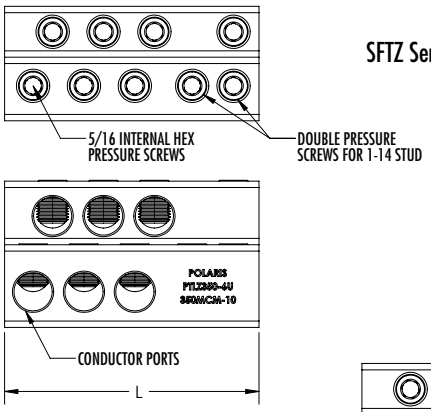
Meets or exceeds ANSI C119.4 Class A.

**TEMPERATURE RATING:**
90 °C.

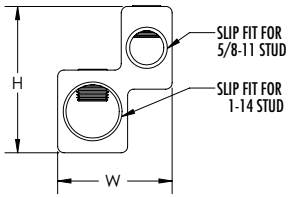
**VOLTAGE:**
600V max.

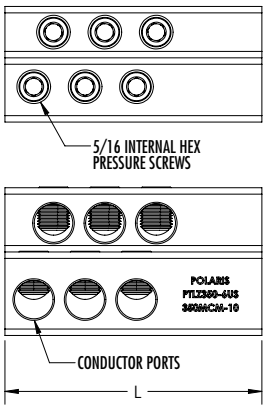


| TYPE | NO. OF CONDUCTORS | STUD SIZE | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| Slip Fit | 6 | 5/8-11, 1-14 | 400 | 5/16 | 5.000 | 2.250 | 2.880 | 1 |
| Slip Fit | 8 | 5/8-11, 1-14 | 400 | 5/16 | 6.000 | 2.250 | 2.880 | 1 |
| Slip Fit | 6 | 5/8-11, 1-14 | 450 | 5/16 | 5.550 | 2.250 | 2.880 | 1 |
| Screw On | 6 | 5/8-11, 1-14 | 400 | 5/16 | 5.000 | 2.250 | 2.880 | 1 |
| Screw On | 8 | 5/8-11, 1-14 | 400 | 5/16 | 6.000 | 2.250 | 2.880 | 1 |
| Screw On | 6 | 5/8-11, 1-14 | 450 | 5/16 | 5.550 | 2.250 | 2.880 | 1 |
| Screw On | 8 | 5/8-11, 1-14 | 450 | 5/16 | 6.680 | 2.250 | 2.880 | 1 |

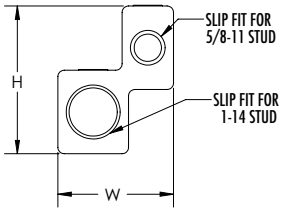



SFTZ Series




SOTZ Series



MECHANICAL CONNECTORS

# Aluminum Dual Rated Transformer Stud Connectors

TS SERIES



## FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Clear plated for low contact resistance; stud is tin plated copper which provides low contact resistance for connection to transformer.
- For use with copper and aluminum conductors.
- Also available with the following options: clear plating, anodized set-screws or disc pad screws – contact NSi Customer Service for ordering details.

## RATINGS

Meets or exceeds ANSI C119.4 Class A.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

**TS350-8**

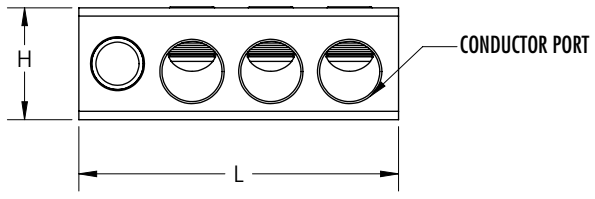


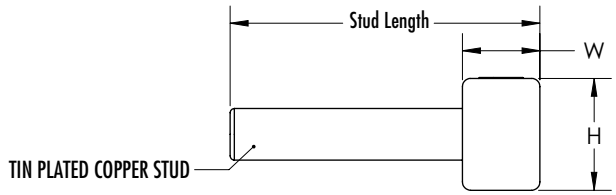
All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| **TS1/0-2** | 1/0-4 AWG |
| **TS1/0-4** | 1/0-4 AWG |
| **TS250-2** | 250 MCM-6 AWG |
| **TS250-3** | 250 MCM-6 AWG |
| **TS250-4** | 250 MCM-6 AWG |
| **TS250-8** | 250 MCM-6 AWG |
| **TS350-2** | 350 MCM-6 AWG |
| **TS350-2-12** | 350 MCM-6 AWG |
| **TS350-3** | 350 MCM-6 AWG |
| **TS350-4** | 350 MCM-6 AWG |
| **TS350-6** | 350 MCM-6 AEG |
| **TS350-8** | 350 MCM-6 AWG |
| **TS500-2** | 500 MCM-4 AWG |
| **TS500-3** | 500 MCM-4 AWG |
| **TS500-4** | 500 MCM-4 AWG |
| **TS750-2** | 750-250 MCM |
| **TS750-4** | 750-250 MCM |



| NO. OF CONDUCTORS | COPPER STUD DIA. | STUD LENGTH | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 2 | 0.375 | 3.00 | 180 | 5/16 | 2.030 | 0.630 | 0.880 | 1 |
| 4 | 0.375 | 3.00 | 180 | 5/16 | 2.680 | 0.880 | 0.880 | 1 |
| 2 | 0.500 | 4.00 | 360 | 5/16 | 2.590 | 0.880 | 1.130 | 1 |
| 3 | 0.500 | 4.00 | 360 | 5/16 | 3.460 | 0.880 | 1.130 | 1 |
| 4 | 0.500 | 4.00 | 360 | 5/16 | 4.320 | 0.880 | 1.130 | 1 |
| 8 | 0.500 | 4.00 | 360 | 5/16 | 7.770 | 0.880 | 1.130 | 1 |
| 2 | 0.625 | 4.00 | 400 | 5/16 | 2.950 | 0.880 | 1.250 | 1 |
| 2 | 0.500 | 4.00 | 400 | 5/16 | 2.950 | 0.880 | 1.250 | 1 |
| 3 | 0.625 | 4.00 | 400 | 5/16 | 3.950 | 0.880 | 1.250 | 1 |
| 4 | 0.625 | 4.00 | 400 | 5/16 | 4.950 | 0.880 | 1.250 | 1 |
| 6 | 0.625 | 4.00 | 400 | 5/16 | 6.950 | 0.880 | 1.250 | 1 |
| 8 | 0.625 | 4.00 | 400 | 5/16 | 8.950 | 0.880 | 1.250 | 1 |
| 2 | 0.750 | 4.50 | 450 | 5/16 | 4.650 | 1.130 | 1.630 | 1 |
| 3 | 0.750 | 4.50 | 450 | 5/16 | 5.790 | 1.130 | 1.630 | 1 |
| 4 | 0.750 | 4.50 | 450 | 5/16 | 6.940 | 1.130 | 1.630 | 1 |
| 2 | 0.750 | 5.50 | 550 | 5/16 | 4.040 | 1.250 | 1.750 | 1 |
| 4 | 0.750 | 5.50 | 550 | 5/16 | 6.720 | 1.250 | 1.750 | 1 |



MECHANICAL CONNECTORS

# Aluminum Flexible Cable Sleeves Connectors

FS SERIES



## FEATURES

- For use with fine-stranded and flexible wire.
- Made from copper tube and plated for corrosion resistance.
- Belled end allows for easy cable insertion.

## RATINGS

All dimensional data is listed in inches.

| CAT. NO. | SLEED LD. |
|---|---|
| **FS008** | 0.180 |
| **FS006** | 0.236 |
| **FS004** | 0.291 |
| **FS002** | 0.336 |
| **FS001** | 0.415 |
| | - |
| **FS010** | 0.500 |
| | - |
| **FS020** | 0.579 |
| | - |
| **FS030** | 0.657 |
| | - |
| **FS040** | 0.738 |
| | - |
| **FS350** | 0.798 |



| COMM. CABLE SIZE | APPROX. CONDUTOR DIAMETER | | | DIESEL LOCOMOTIVE | LENGTH (L) | USE WITH MECHANICAL CONN. SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| | COMM CABLE | CLASS M WELDING | CLASS H | | | | |
| 8 AWG | 0.146 | 0.162 | 0.167 | 0.140 | 0.4724 | 4 AWG | 100 |
| 6 AWG | 0.184 | 0.215 | 0.210 | 0.180 | 0.4724 | 4 AWG | 100 |
| 4 AWG | 0.232 | 0.269 | 0.266 | 0.240 | 0.4724 | 1/0 AWG | 50 |
| 2 AWG | 0.292 | - | - | 0.325 | 0.5906 | 1/0 AWG | 50 |
| 2 AWG | - | 0.337 | 0.335 | - | 0.7087 | 3/0 AWG | 25 |
| 1 AWG | 0.332 | 0.376 | 0.378 | 0.390 | - | - | - |
| 1/0 AWG | 0.373 | 0.423 | 0.424 | 0.420 | 0.8661 | 250 MCM | 25 |
| 2/0 AWG | 0.419 | - | 0.477 | 0.460 | - | - | - |
| 2/0 AWG | - | 0.508 | - | - | 0.9843 | 350 MCM | 25 |
| 3/0 AWG | 0.470 | - | 0.536 | 0.565 | - | - | - |
| 3/0 AWG | - | 0.576 | - | - | 1.1812 | 350 MCM | 12 |
| 4/0 AWG | 0.528 | - | 0.601 | 0.590 | - | - | - |
| 4/0 AWG | - | 0.645 | - | 0.660 (262.6) | 1.2598 | 500 MCM | 12 |
| 250 MCM | 0.575 | 0.713 | 0.653 | - | - | - | - |
| 300 MCM | 0.630 | 0.768 | 0.716 | 0.720 (313.1) | - | - | - |
| 350 MCM | 0.681 | - | 0.772 | 0.781 (313.7) | 1.2598 | 500 MCM | 12 |

MECHANICAL CONNECTORS

# Copper Single Lugs Extruded & Tubular

TC SERIES



## FEATURES

### COPPER SINGLE LUGS - CU - EXTRUDED STYLES

- Solid one-piece copper connector made from extruded copper for superior mechanical strength and excellent electrical performance.
- Steel screw.
- For use with copper wire only.

### COPPER SINGLE LUGS - CU - TUBULAR STYLES

- Copper connector made from tubular copper.
- Steel screw.
- For use with copper wire only.

## RATINGS

LISTED
WIRE CONNECTOR
E155274

701642

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL 486A/B Listed Wire Connectors.

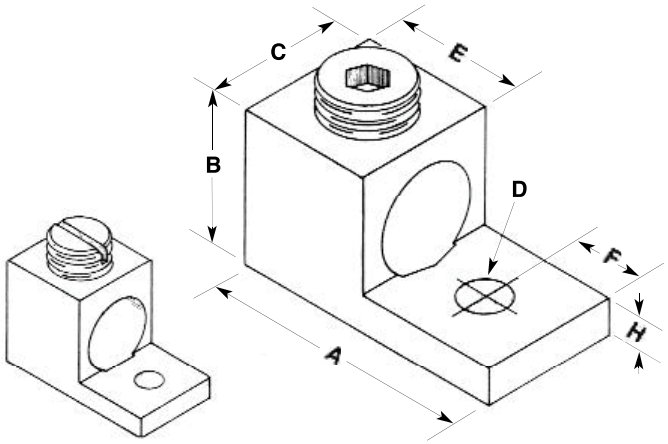
| 1 | 2 |
|---|---|
|  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **6TC** | 1 | 6-14 AWG |
| **4TC** | 1 | 4-14 AWG |
| **2TC** | 1 | 2-14 AWG |
| **0TC** | 1 | 1/0-14 AWG |
| **4/0TC** | 1 | 4/0-2 AWG |
| **6TC-1** | 2 | 6-14 AWG |
| **4TC-1** | 2 | 4-14 AWG |



| TORQUE VALUE | WRENCH SIZE | MTG. BOLT SIZE | LENGTH (A) | HEIGHT (B) | WIDTH (C) | MTG. HOLE DIA. (D) | DEPTH (E) | TANG LENGTH (F) | TANG THICKNESS (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 25 | Slotted | 3/16 | 1.020 | 0.400 | 0.375 | 0.193 | 0.370 | 0.187 | 0.115 | 100 |
| 25 | Slotted | 1/4 | 1.075 | 0.440 | 0.450 | 0.265 | 0.328 | 0.275 | 0.100 | 100 |
| 30 | Slotted | 1/4 | 1.125 | 0.484 | 0.458 | 0.265 | 0.475 | 0.325 | 0.125 | 100 |
| 40 | Slotted | 1/4 | 1.277 | 0.680 | 0.548 | 0.265 | 0.600 | 0.337 | 0.125 | 50 |
| 200 | 5/16" | 3/8 | 1.950 | 0.950 | 0.812 | 0.390 | 0.875 | 0.406 | 0.218 | 25 |
| 25 | Slotted | 3/16 | 0.995 | 0.778 | 0.345 | 0.203 | 0.375 | 0.226 | 0.610 | 100 |
| 45 | Slotted | 1/4 | 1.255 | 1.255 | 0.453 | 0.258 | 0.500 | 0.500 | 0.750 | 100 |



MECHANICAL CONNECTORS

# Copper Single/Double Solderless Lugs

DE SERIES



## FEATURES

- Made of 99.98% pure electrolytic copper.
- Steel-plated screws to prevent rusting.
- 25 to 70 ampere sizes have slotted head screws.
- Larger sizes have hex head screws.

## RATINGS

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.
UL 486 Listed.

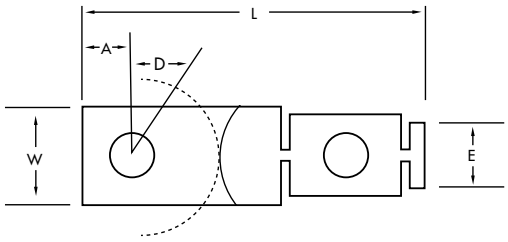
| 1 | 2 |
|---|---|
|  |  |

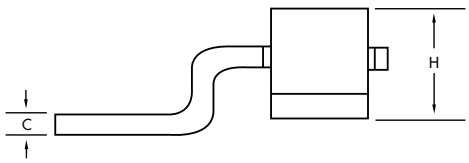
All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | WIRE RANGE |
|---|---|---|
| **DE703** | 1 | 10-14 AWG |
| **DE704** | 1 | 6-14 AWG |
| **DE705** | 1 | 2-8 AWG |
| **DE711** | 1 | 4-14 AWG |
| **DE706** | 1 | 1/0-6 AWG |
| **DE713** | 1 | 3/0-4 AWG |
| **DE707** | 1 | 4/0-2 AWG |
| **D899** | 2 | 4/0-2 AWG |
| **DE710** | 1 | 350 MCM-1/0 AWG |
| **DE708** | 1 | 500 MCM-4/0 AWG |
| **DE709** | 1 | 1000-600 MCM |



| MTG. BOLT SIZE | AMP RATING | TORQUE VALUE (IN./ (LBS.) | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/4 | 25 | 60 | Slotted | 1.025 | 0.315 | 0.465 | 0.195 | 0.069 | 0.160 | 100 |
| 3/16 | 35 | 90 | Slotted | 1.190 | 0.380 | 0.500 | 0.230 | 0.070 | 0.250 | 100 |
| 5/16 | 70 | 125 | Slotted | 1.550 | 0.500 | 0.650 | 0.250 | 0.090 | 0.340 | 100 |
| 1/4 | 70 | 90 | Slotted | 1.310 | 0.500 | 0.560 | 0.250 | 0.080 | 0.280 | 50 |
| 1/4 | 125 | 150 | Slotted | 1.970 | 0.630 | 0.880 | 0.500 | 0.130 | 0.280 | 25 |
| 3/8 | 175 | 200 | 3/8 | 2.190 | 0.750 | 1.030 | 0.440 | 0.130 | 0.500 | 18 |
| 1/2 | 225 | 200 | 7/32 | 2.380 | 1.000 | 1.170 | 0.470 | 0.130 | 0.560 | 15 |
| 5/8 | 450 | 200 | 5/8 | 3.200 | 1.502 | 1.720 | 0.915 | 0.190 | 0.405 | 6 |
| 3/4 | 300 | 250 | 3/4 | 3.025 | 0.998 | 2.310 | 0.450 | 0.186 | 0.403 | 10 |
| 15/16 | 400 | 300 | 15/16 | 4.320 | 1.497 | 2.200 | 0.840 | 0.190 | 0.403 | 2 |
| 3/8 | 650 | 400 | 3/8 | 4.360 | 1.998 | 2.870 | 1.080 | 0.254 | 0.530 | 2 |



MECHANICAL CONNECTORS

# Copper And Bronze Terminal Lugs

TL SERIES



## FEATURES

- Made from high conductivity copper alloy.
- Range taking.
- Re-usable.
- Fig.2-8 (below) made from high strength cast bronze.

## RATINGS

LISTED
WIRE CONNECTOR
E155274

**VOLTAGE:**
600V (2000V max. per UL486B).
UL486 Listed Wire Connector.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | MTG. BOLT SIZE |
|---|---|---|
| **TL8** | 1 | 3/16 |
| **TL4** | 1 | 1/4 |
| **TL1/0** | 1A | 5/16 |
| **TL1/0-L2** | 2 | 5/16 |
| **TL250** | 1A | 3/8 |
| **TL250-L2** | 2 | 3/8 |
| **TL250-2L2** | 3 | 1/2 |
| **TL250-3L2** | 5 | 1/2 |
| **TL250-4L2** | 7 | 1/2 |
| **TL500** | 1B | 1/2 |
| **TL500-L2** | 2 | 1/2 |
| **TL500-2L2** | 3 | 1/2 |
| **TL500-2L4** | 4 | 1/2 |
| **TL500-3L2** | 5 | 1/2 |
| **TL500-3L4** | 6 | 1/2 |
| **TL500-4L2** | 7 | 1/2 |
| **TL500-4L4** | 8 | 1/2 |
| **TL1000** | 1B | 1/2 |
| **TL1000-L2** | 2 | 1/2 |
| **TL1000-2L4** | 4 | 1/2 |
| **TL1000-3L4** | 6 | 1/2 |

| 1 | 1A | 1B | 2 |
|---|---|---|---|
|  |  |  |  |
| **3** | **4** | **5** | **6** |
|  |  |  |  |
| | | **7** | **8** |
| | |  |  |

CONNECTORS



nsi INDUSTRIES



| WIRE RANGE | MTG. HOLE DIA. | TORQUE VALUE (IN./LBS.) | WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 STR-14 SOL | 0.200 | 60 | Slotted | 0.815 | 0.390 | 0.400 | 0.150 | 0.467 | 0.080 | 100 |
| 4 STR - 14 SOL | 0.278 | 90 | Slotted | 1.125 | 0.537 | 0.553 | 0.248 | 0.617 | 0.096 | 100 |
| 1/0 STR - 4 SOL | 0.315 | 150 | 1/4 | 1.584 | 0.723 | 0.792 | 0.370 | 0.866 | 0.090 | 50 |
| 1/0 STR - 4 SOL | 0.360 | 150 | 1/4 | 2.670 | 0.775 | 0.895 | 0.388 | 1.908 | 0.183 | 40 |
| 250 MCM - 6 STR | 0.380 | 250 | 1/4 | 1.950 | 0.927 | 1.049 | 0.416 | 1.088 | 0.119 | 25 |
| 250 MCM - 1/0 STR | 0.403 | 250 | 1/4 | 2.996 | 1.103 | 1.025 | 0.424 | 1.890 | 0.246 | 15 |
| 300 MCM - 4/0 STR | 0.560 | 250 | 1/4 | 4.473 | 1.994 | 1.102 | 0.713 | 3.375 | 0.283 | 10 |
| 300 MCM - 4/0 STR | 0.560 | 250 | 5/8 | 4.472 | 3.058 | 1.838 | 0.600 | 3.255 | 0.362 | 4 |
| 300 MCM - 4/0 STR | 0.560 | 250 | 5/8 | 4.440 | 4.089 | 1.783 | 0.650 | 3.175 | 0.394 | 3 |
| 500 MCM - 4/0 STR | 0.525 | 300 | 3/8 | 2.986 | 1.375 | 1.456 | 0.750 | 1.640 | 0.303 | 10 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 1.375 | 2.154 | 0.625 | 3.000 | 0.344 | 6 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 2.500 | 2.055 | 0.625 | 3.000 | 0.375 | 6 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 3.000 | 2.055 | 0.625 | 3.000 | 0.375 | 4 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 2.500 | 2.150 | 0.625 | 3.000 | 0.375 | 3 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 3.625 | 2.150 | 0.625 | 3.000 | 0.375 | 3 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 4.187 | 2.150 | 0.625 | 3.000 | 0.375 | 2 |
| 500 - 300 MCM | 0.562 | 300 | 3/4 | 4.500 | 4.187 | 2.150 | 0.625 | 3.000 | 0.375 | 2 |
| 1000 - 500 MCM | 0.557 | 400 | 3/8 | 3.992 | 1.985 | 1.945 | 0.742 | 2.245 | 0.356 | 4 |
| 1000 - 750 MCM | 0.562 | 400 | 7/8 | 4.875 | 1.875 | 2.887 | 0.625 | 3.000 | 0.500 | 4 |
| 1000 - 750 MCM | 0.570 | 400 | 7/8 | 5.045 | 3.630 | 2.900 | 0.620 | 3.270 | 0.517 | 2 |
| 1000 - 750 MCM | 0.570 | 400 | 7/8 | 6.045 | 3.630 | 2.900 | 0.620 | 3.270 | 0.517 | 2 |

MECHANICAL CONNECTORS

# Aluminum Dual Rated Parallel Groove Clamps

PAA, PAE SERIES



## FEATURES

- High strength aluminum extruded alloy fittings assembled with steel or anodized high strength aluminum flat washers for heavy duty service entrance or for use as heavy duty distribution armor rod clamps.
- Serrated grooves provide increased contact.
- Supplied pre-filled with oxide inhibitor.
- For galvanized steel hardware, add the suffix -SH to each part number.

## RATINGS

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V max.

| 1 | 2 |
|---|---|
|  |  |

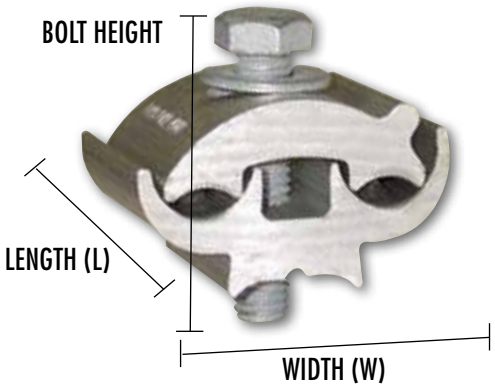
All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. |
|---|---|
| **PAA4** | 1 |
| **PAA5** | 1 |
| **PAA6** | 1 |
| **PAA10** | 1 |
| **PAA12** | 1 |
| **PAA29** | 1 |
| **PAA339** | 1 |
| **PAA49** | 1 |
| **PAA129** | 1 |
| **PAE2121-9** | 2 |
| **PAE4141-9** | 2 |



| MAIN | | TAP | | HEX/WRENCH SIZE | BOLT HEIGHT | WIDTH (W) | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| ACSR | AL/CU | ACSR | AL/CU | | | | | |
| 1/0-6 | 1/0 STR-6 SOL | 1/0-6 | 1/0 STR-6 SOL | 3/8 | 1.187 | 1.500 | 2.219 | 25 |
| 1/0-8 | 1/0 STR-8 SOL | 1/0-8 | 1/0 STR-8 SOL | 3/8 | 1.496 | 1.496 | 1.240 | 25 |
| 1/0-8 | 2/0 STR-8 SOL | 1/0-8 | 2/0 STR-8 SOL | 3/8 | 1.496 | 1.496 | 1.240 | 25 |
| 336.4-1/0 | 400-1/0 SOL | 1/0-8 | 1/0 STR-8 SOL | 3/8 | 2.000 | 1.750 | 2.469 | 12 |
| 4/0-2 | 4/0 STR-2 SOL | 4/0-2 | 4/0 STR-2 SOL | 1/2 | 2.000 | 2.000 | 2.250 | 12 |
| 2-6 | 2 STR-6 SOL | 2-6 | 2 STR-6 SOL | 5/16 | 1.094 | 1.375 | 1.813 | 25 |
| 1/0-6 | 1/0 STR-6 SOL | 1/0-6 | 1/0 STR-6 SOL | 3/8 | 1.250 | 1.500 | 1.563 | 25 |
| 1/0-6 | 1/0 STR-6 SOL | 1/0-6 | 1/0 STR-6 SOL | 3/8 | 2.219 | 1.500 | 1.187 | 25 |
| 4/0-2 | 4/0 STR-2 SOL | 4/0-2 | 4/0 STR-20L | 1/2 | 2.250 | 2.000 | 2.000 | 12 |
| 2/0-6 | 2/0 STR-6 SOL | 2/0-6 | 2/0 STR-6 SOL | 3/8 | 2.000 | 1.625 | 1.375 | 25 |
| 4/0-4 | 4/0 STR-2 SOL | 4/0-4 | 4/0 STR-2 SOL | 3/8 | 2.000 | 2.000 | 1.375 | 12 |

## TYPICAL



# Wedge & Hot-Line Clamps, Service Entrance Connector

## W, HLC, EC SERIES

## FEATURES

### ALUMINUM SERVICE WEDGE CLAMPS

- For dead-ending self-supporting drop wire.
- Saves conductor – drop wire may be cut to exact length.
- Can be attached to bare neutral in any point in the span.
- Adjustment in drop wire sag are easily made.
- Grips ACSR, AAAC or aluminum conductor.

### COPPER HOT LINE CLAMPS

- Clamping stem is manufactured from high strength silicon bronze.
- Saddle is made of high strength copper alloy, ensuring continued clamping force on the main conductor.
- Threads of clamping stem are protected to prevent damage due to arcing.
- Double coil stainless steel washer maintains continuous pressure on the main conductor.
- Retainer pin captivates the saddle for easy installation.

### SERVICE ENTRANCE CONNECTOR

- Body and screw are of high strength, corrosion resistant copper alloy, 600V.

## RATINGS

**SERVICE ENTRANCE CONNECTOR:**
Body and screw are of high strength, corrosion-resistant copper alloy.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).
UL486A/B Listed Wire Connector.



| CAT. NO. |
|---|
| W62-1 |
| W62-1FC |
| W20-1 |
| W20-1FC |
| W40-1 |
| W40-1FC |



| CAT. NO. |
|---|
| HLC-2/0 |
| HLC-400 |



| CAT. NO. |
|---|
| EC12 |
| EC6 |
| EC4 |
| EC2 |



All dimensional data is listed in inches.

| WIRE RANGE | | | LENGTH | WIDTH | STD. |
|---|---|---|---|---|---|
| ACSR | ALUMINUM | AAAC | (L) | (W) | CTN. QTY. |
| 2-6 | 1 STR-6 SOL | 2-6 | 12.000 | 2.375 | 12 |
| 2-6 | 1 STR-6 SOL | 2-6 | 17.500 | FLEX | 12 |
| 1/0-4 | 2/0 STR-2 SOL | 1/0-4 | 12.500 | 2.375 | 8 |
| 1/0-4 | 2/0 STR-2 SOL | 1/0-4 | 18.500 | FLEX | 8 |
| 4/0-2/0 | 4/0 STR-2/0 SOL | 4/0-2/0 | 12.750 | 2.375 | 6 |
| 4/0-2/0 | 4/0 STR-2/0 SOL | 4/0-2/0 | 18.500 | FLEX | 6 |

| MAIN | | TAP | | LENGTH | WIDTH | HEIGHT | STD. |
|---|---|---|---|---|---|---|---|
| CONDUCTOR RANGE | WIRE DIAMETER | CONDUCTOR RANGE | WIRE DIAMETER | (L) | (W) | (H) | CTN. QTY. |
| 8 sol - 2/0 str | .128/.414 | 8 sol - 2/0 str | .128/.414 | 4.119 | 2.550 | 2.120 | 1 |
| 6 sol - 400MCM | .162/.745 | 8 sol - 4/0 str | .128/.547 | 4.716 | 2.900 | 1.348 | 1 |

| WIRE RANGE | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|
| 12 str | 35 | 1/4 | 100 |
| 6 str | 45 | 5/16 | 100 |
| 4 str | 45 | 3/8 | 100 |
| 2 str | 50 | 7/8 | 100 |

COMPRESSION CONNECTORS

# Aluminum Dual Rated One Hole Standard Barrel

AL SERIES



## FEATURES

- Produced from high conductivity aluminum tubing.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed.
- Consult factory for additional hole sizes.

## RATINGS

c UL us LISTED WIRE CONNECTOR

UL486A/B Listed.

UL Listed to 35kV when properly installed to cable manufacturers specifications

**TEMPERATURE RATING:**
90 °C.

**CRIMP TOOL:**
N1240,N12ID.

**VOLTAGE:**
600V (2000V Max. per UL486).

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| AL8-14 | 8 AWG | 8 AWG |
| AL6-14 | 6 AWG | 6-8 AWG |
| AL4-14 | 4 AWG | 4-6 AWG |
| AL4-38 | 4 AWG | 4-6 AWG |
| AL2-14 | 2 AWG | 2-6 AWG |
| AL2-38 | 2 AWG | 2-6 AWG |
| AL1-14 | 1 AWG | 1-6 AWG |
| AL1/0-38 | 1/0 AWG | 1/0-6 AWG |
| AL1/0-48 | 1/0 AWG | 1/0-6 AWG |
| AL2/0-38 | 2/0 AWG | 2/0-4 AWG |
| AL2/0-48 | 2/0 AWG | 2/0-4 AWG |
| AL3/0-38 | 3/0 AWG | 3/0-2 AWG |
| AL3/0-48 | 3/0 AWG | 3/0-2 AWG |
| AL4/0-38 | 4/0 AWG | 4/0-1 AWG |
| AL4/0-48 | 4/0 AWG | 4/0-1 AWG |
| AL250-48 | 250 MCM | 250 MCM-1/0 AWG |
| AL300-48 | 300 MCM | 300 MCM-2/0 AWG |
| AL350-48 | 350 MCM | 350MCM-3/0 AWG |
| AL400-48 | 400 MCM | 400MCM-4/0 AWG |
| AL500-48 | 500 MCM | 500-250 MCM |
| AL500-58 | 500 MCM | 500-250 MCM |
| AL600-48 | 600 MCM | 600-250 MCM |
| AL600-58 | 600 MCM | 600-250 MCM |
| AL750-48 | 750 MCM | 750-500 MCM |
| AL750-58 | 750 MCM | 750-500 MCM |
| AL1000-58 | 1000 MCM | – |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147

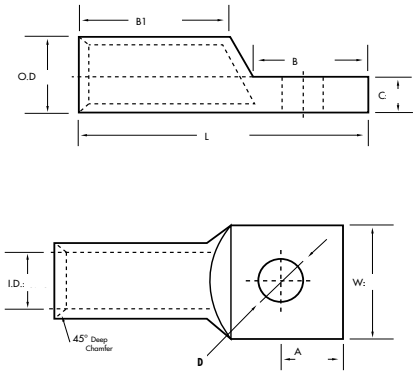




nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | BARREL O.D. | BARREL I.D. | LENGTH (L) | WIDTH (W) | TANG LENGTH (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Blue | 1/4 | 0.302 | 0.182 | 1.549 | 0.410 | 0.231 | 0.645 | 0.550 | 0.114 | 0.260 | 24 |
| Gray | 1/4 | 0.339 | 0.201 | 2.008 | 0.567 | 0.378 | 0.878 | 0.858 | 0.098 | 0.248 | 24 |
| Green | 1/4 | 0.441 | 0.252 | 2.307 | 0.567 | 0.378 | 0.878 | 1.098 | 0.189 | 0.248 | 24 |
| Green | 3/8 | 0.441 | 0.252 | 2.390 | 0.650 | 0.378 | 0.878 | 1.098 | 0.150 | 0.409 | 24 |
| Pink | 1/4 | 0.532 | 0.311 | 2.500 | 0.709 | 0.378 | 0.878 | 1.201 | 0.217 | 0.248 | 24 |
| Pink | 3/8 | 0.532 | 0.311 | 2.500 | 0.709 | 0.378 | 0.878 | 1.201 | 0.217 | 0.409 | 24 |
| Gold | 1/4 | 0.532 | 0.350 | 2.500 | 0.728 | 0.378 | 0.878 | 1.201 | 0.177 | 0.248 | 24 |
| Tan | 3/8 | 0.630 | 0.390 | 2.807 | 0.847 | 0.500 | 0.929 | 1.201 | 0.240 | 0.409 | 24 |
| Tan | 1/2 | 0.630 | 0.390 | 2.807 | 0.847 | 0.020 | 0.929 | 1.201 | 0.240 | 0.508 | 24 |
| Olive | 3/8 | 0.689 | 0.441 | 2.807 | 0.937 | 0.500 | 1.118 | 1.299 | 0.240 | 0.409 | 12 |
| Olive | 1/2 | 0.689 | 0.441 | 2.807 | 0.937 | 0.500 | 1.118 | 1.299 | 0.240 | 0.508 | 12 |
| Ruby | 3/8 | 0.760 | 0.480 | 3.000 | 1.028 | 0.500 | 1.118 | 1.402 | 0.280 | 0.409 | 12 |
| Ruby | 1/2 | 0.760 | 0.480 | 3.000 | 1.028 | 0.500 | 1.118 | 1.402 | 0.280 | 0.508 | 12 |
| White | 3/8 | 0.839 | 0.551 | 3.429 | 1.150 | 0.559 | 1.307 | 1.402 | 0.287 | 0.409 | 12 |
| White | 1/2 | 0.839 | 0.551 | 3.429 | 1.150 | 0.559 | 1.307 | 1.402 | 0.287 | 0.508 | 12 |
| Red | 1/2 | 0.921 | 0.591 | 3.500 | 1.260 | 0.630 | 1.307 | 1.500 | 0.319 | 0.508 | 12 |
| Blue | 1/2 | 1.012 | 0.650 | 4.000 | 1.370 | 0.630 | 1.500 | 1.598 | 0.347 | 0.508 | 6 |
| Brown | 1/2 | 1.118 | 0.721 | 4.248 | 1.520 | 0.689 | 1.500 | 1.902 | 0.390 | 0.508 | 6 |
| Green | 1/2 | 1.189 | 0.760 | 4.677 | 1.606 | 0.689 | 1.500 | 2.299 | 0.417 | 0.508 | 6 |
| Pink | 1/2 | 1.319 | 0.839 | 4.748 | 1.787 | 0.748 | 1.500 | 2.500 | 0.469 | 0.508 | 6 |
| Pink | 5/8 | 1.319 | 0.839 | 4.748 | 1.787 | 0.748 | 1.500 | 2.500 | 0.469 | 0.669 | 6 |
| Black | 1/2 | 1.441 | 0.921 | 5.118 | 1.957 | 0.748 | 1.870 | 2.598 | 0.508 | 0.508 | 3 |
| Black | 5/8 | 1.441 | 0.921 | 5.118 | 1.957 | 0.748 | 1.870 | 2.598 | 0.508 | 0.669 | 3 |
| Yellow | 1/2 | 1.598 | 1.032 | 6.118 | 2.189 | 0.937 | 2.000 | 3.201 | 0.547 | 0.508 | 3 |
| Yellow | 5/8 | 1.598 | 1.032 | 6.118 | 2.189 | 0.937 | 2.000 | 3.201 | 0.547 | 0.669 | 3 |
| Brown | 5/8 | 1.833 | 1.173 | 6.719 | 2.500 | 1.000 | 2.500 | 2.562 | 0.688 | 0.669 | 1 |



COMPRESSION CONNECTORS

# ALuminum Dual Rated Two Hole Standard Barrel

## AL-N SERIES



## FEATURES

- Produced from high conductivity aluminum tubing.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed.
- Consult factory for additional hole sizes.

## RATINGS

c UL us LISTED WIRE CONNECTOR

UL486A/B Listed.

UL Listed to 35kV when properly. installed to cable manufacturers specifications.

**TEMPERATURE RATING:**
90 °C.

**CRIMP TOOL:**
N1240,N12ID.

**VOLTAGE:**
600V (2000V Max. per UL486).

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **AL1/0N** | 1/0 AWG | 1/0-6 AWG |
| **AL2/0N** | 2/0 AWG | 2/0-4 AWG |
| **AL3/0N** | 3/0 AWG | 3/0-2 AWG |
| **AL4/0N** | 4/0 AWG | 4/0-1 AWG |
| **AL250N** | 250 MCM | 250 MCM-1/0 AWG |
| **AL300N** | 300 MCM | 300 MCM-2/0 AWG |
| **AL350N** | 350 MCM | 350MCM-3/0 AWG |
| **AL400N** | 400 MCM | 400MCM-4/0 AWG |
| **AL500N** | 500 MCM | 500-250 MCM |
| **AL600N** | 600 MCM | 600-250 MCM |
| **AL750N** | 750 MCM | 750-500 MCM |
| **AL1000N** | 1000 MCM | – |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147

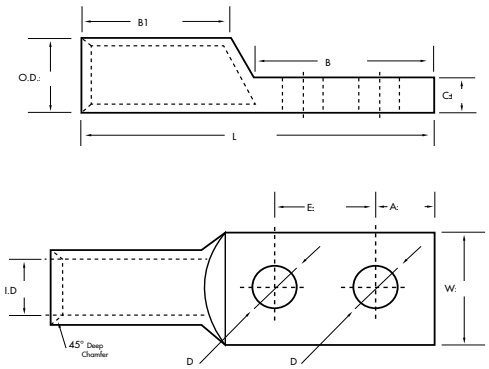




nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | MTG. HOLE SPACING (E) | O.D. | I.D. | LENGTH (L) | WIDTH (W) | TANG LENGTH (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tan | 1/2 | 1.750 | 0.630 | 0.390 | 4.748 | 0.847 | 0.630 | 3.118 | 1.201 | 0.240 | 0.508 | 12 |
| Olive | 1/2 | 1.750 | 0.690 | 0.440 | 4.799 | 0.937 | 0.630 | 3.118 | 1.299 | 0.240 | 0.508 | 12 |
| Ruby | 1/2 | 1.750 | 0.760 | 0.480 | 5.000 | 1.028 | 0.630 | 3.118 | 1.402 | 0.280 | 0.508 | 12 |
| White | 1/2 | 1.750 | 0.840 | 0.550 | 5.248 | 1.150 | 0.630 | 3.118 | 1.402 | 0.287 | 0.508 | 12 |
| Red | 1/2 | 1.750 | 0.920 | 0.590 | 5.307 | 1.260 | 0.630 | 3.118 | 1.500 | 0.319 | 0.508 | 12 |
| Blue | 1/2 | 1.750 | 1.010 | 0.650 | 5.500 | 1.370 | 0.630 | 3.118 | 1.598 | 0.347 | 0.508 | 6 |
| Brown | 1/2 | 1.750 | 1.120 | 0.720 | 5.870 | 1.520 | 0.630 | 3.118 | 1.902 | 0.390 | 0.508 | 6 |
| Green | 1/2 | 1.750 | 1.190 | 0.760 | 6.429 | 1.606 | 0.630 | 3.118 | 2.299 | 0.417 | 0.508 | 6 |
| Pink | 1/2 | 1.750 | 1.320 | 0.840 | 6.500 | 1.787 | 0.630 | 3.118 | 2.500 | 0.469 | 0.508 | 6 |
| Black | 1/2 | 1.750 | 1.440 | 0.920 | 6.748 | 1.957 | 0.630 | 3.118 | 2.598 | 0.508 | 0.508 | 3 |
| Yellow | 1/2 | 1.750 | 1.600 | 1.030 | 7.370 | 2.189 | 0.630 | 3.118 | 3.201 | 0.547 | 0.508 | 3 |
| Brown | 1/2 | 1.750 | 1.831 | 1.170 | 7.437 | 2.500 | 0.750 | 3.219 | 2.562 | 0.687 | 0.508 | 1 |



COMPRESSION CONNECTORS

# Dual Rated Aluminum Splice

## ASC-T SERIES



## FEATURES

- Produced from high conductivity aluminum tubing.
- Center stop assures proper cable installation.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed.
- Consult factory for additional hole sizes.

## RATINGS

c UL us LISTED WIRE CONNECTOR

UL486A/B Listed.

UL Listed to 35kV when properly. installed to cable manufacturers specifications.

**TEMPERATURE RATING:**
90 °C.

**CRIMP TOOL:**
N1240,N12ID.

**VOLTAGE:**
600V (2000V Max. per UL486).

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| ASC8T | 8 AWG |
| ASC6T | 6 AWG |
| ASC4T | 4 AWG |
| ASC2T | 2 AWG |
| ASC1T | 1 AWG |
| ASC1/0T | 1/0 AWG |
| ASC2/0T | 2/0 AWG |
| ASC3/0T | 3/0 AWG |
| ASC4/0T | 4/0 AWG |
| ASC250T | 250 MCM |
| ASC300T | 300 MCM |
| ASC350T | 350 MCM |
| ASC400T | 400 MCM |
| ASC500T | 500 MCM |
| ASC600T | 600 MCM |
| ASC750T | 750 MCM |
| ASC1000T | 1000 MCM |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool. UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147

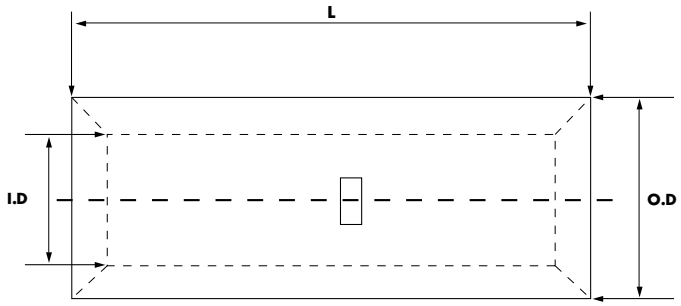




nsi INDUSTRIES



| EXPANDED WIRE RANGE* | COLOR CODE | O.D. | I.D. | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| 8 AWG | Blue | 0.297 | 0.146 | 1.750 | 100 |
| 6-8 AWG | Gray | 0.339 | 0.197 | 1.630 | 24 |
| 4-6 AWG | Green | 0.437 | 0.248 | 2.000 | 24 |
| 2-6 AWG | Pink | 0.528 | 0.307 | 2.378 | 24 |
| 1-6 AWG | Gold | 0.528 | 0.347 | 2.378 | 24 |
| 1/0-6 AWG | Tan | 0.630 | 0.390 | 2.500 | 24 |
| 2/0-4 AWG | Olive | 0.689 | 0.440 | 2.630 | 12 |
| 3/0-2 AWG | Ruby | 0.760 | 0.480 | 2.878 | 12 |
| 4/0-1 AWG | White | 0.839 | 0.550 | 3.130 | 12 |
| 250 MCM-1/0 AWG | Red | 0.920 | 0.590 | 3.248 | 12 |
| 300 MCM-2/0 AWG | Blue | 1.010 | 0.650 | 3.248 | 6 |
| 350MCM-3/0 AWG | Brown | 1.120 | 0.720 | 3.878 | 6 |
| 400MCM-4/0 AWG | Green | 1.190 | 0.760 | 4.878 | 6 |
| 500-250 MCM | Pink | 1.320 | 0.840 | 5.000 | 6 |
| 600-250 MCM | Black | 1.440 | 0.920 | 5.130 | 6 |
| 750-500 MCM | Yellow | 1.600 | 1.030 | 5.378 | 3 |
| – | Brown | 1.844 | 1.153 | 5.250 | 3 |



COMPRESSION CONNECTORS

# Bi-Metallic Pin Terminals

PT SERIES



## FEATURES

- Designed to facilitate termination of aluminum conductors.
- Pin: Stranded copper, tin plated.
- Supplied with PVC insulating cover.
- Connector bores are coated with oxide inhibitor.

## RATINGS

c UL us LISTED WIRE CONNECTOR

UL 486A/B Listed.

**TEMPERATURE RATING:**
90 °C.

**RATING:**
600V.

**CRIMP TOOL:**
N1240.

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE |
|---|---|
| PT6 | 6 AWG |
| PT4 | 4 AWG |
| PT2 | 2 AWG |
| PT1 | 1 AWG |
| PT1/0 | 1/0 AWG |
| PT2/0 | 2/0 AWG |
| PT3/0 | 3/0 AWG |
| PT4/0 | 4/0 AWG |
| PT250 | 250 MCM |
| PT300 | 300 MCM |
| PT350 | 350 MCM |
| PT400 | 400 MCM |
| PT500 | 500 MCM |
| PT600 | 600 MCM |
| PT750 | 750 MCM |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool. UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147

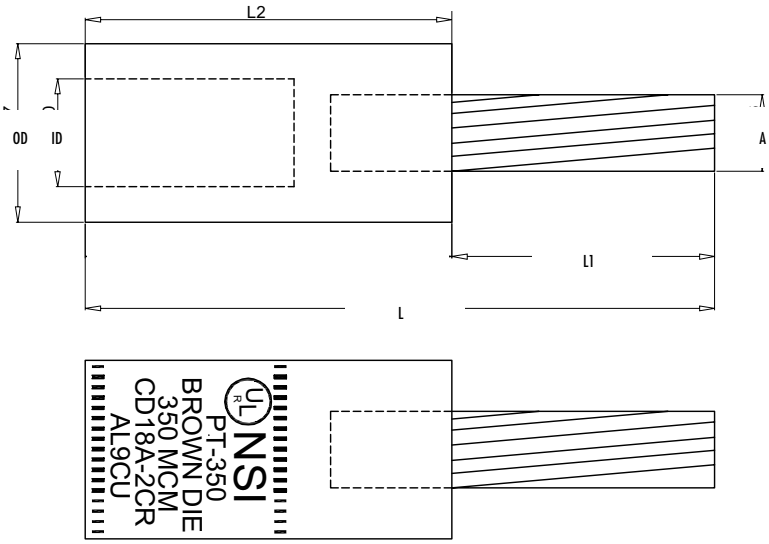




nsi INDUSTRIES



| COLOR CODE | PIN SIZE | O.D. | I.D. | PIN DIA. (A) | LENGTH (L) | PIN LENGTH (L1) | BODY LENGTH (L2) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | #8 | 0.639 | 0.186 | 0.144 | 2.125 | 0.875 | 1.250 | 25 |
| Tan | #6 | 0.630 | 0.236 | 0.188 | 2.450 | 0.913 | 1.540 | 25 |
| Tan | #4 | 0.641 | 0.311 | 0.228 | 2.440 | 0.913 | 1.527 | 25 |
| Tan | #3 | 0.630 | 0.350 | 0.279 | 2.539 | 1.003 | 1.530 | 10 |
| Tan | #2 | 0.900 | 0.366 | 0.287 | 3.405 | 1.259 | 2.140 | 10 |
| White | #1 | 0.900 | 0.429 | 0.322 | 3.342 | 1.251 | 2.090 | 10 |
| White | 1/0 | 0.900 | 0.484 | 0.362 | 3.598 | 1.456 | 2.140 | 10 |
| White | 2/0 | 0.900 | 0.547 | 0.405 | 3.523 | 1.464 | 2.050 | 10 |
| Brown | 3/0 | 1.160 | 0.653 | 0.440 | 3.858 | 1.551 | 2.300 | 10 |
| Brown | 4/0 | 1.160 | 0.653 | 0.523 | 4.086 | 1.696 | 2.389 | 10 |
| Brown | 4/0 | 1.157 | 0.700 | 0.496 | 4.082 | 1.704 | 2.377 | 10 |
| Pink | 250 | 1.330 | 0.759 | 0.582 | 4.362 | 1.984 | 2.377 | 10 |
| Pink | 350 | 1.330 | 0.759 | 0.681 | 4.192 | 1.842 | 2.350 | 10 |
| Yellow | 350 | 1.503 | 0.921 | 0.688 | 4.960 | 1.897 | 3.051 | 3 |
| Yellow | 500 | 1.500 | 1.015 | 0.787 | 5.007 | 2.003 | 3.015 | 3 |



COMPRESSION CONNECTORS

# Dual Rated Pin Terminals

PTS, PTO SERIES



## FEATURES

### SOLID PIN TERMINALS - PTS SERIES

All-aluminum pin terminal designed for termination of both aluminum and copper conductors. The pin is solid aluminum. The connector is tin plated to provide low contact resistance and oxidation protection. Connector is pre-filled with Oxide Inhibitor and capped with color coded cap indicating color of die to use. A cover is provided for quick installation.

### SOLID PIN TERMINALS - PTO SERIES

All-aluminum pin terminal designed for termination of both aluminum and copper conductors. In addition to above the PTO Series provides an offset termination pin. Pin is offset for use in tight applications while providing ease of installation in side by side applications. The solid pin is made of aluminum and is tin-plated and pre-filled with oxide inhibitor. Great for paralleling cable. A cover is provided for quick insulation.

## RATINGS

c UL us LISTED WIRE CONNECTOR ADAPTER

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V.
**CRIMP TOOL:**
N1240.

| 1 | 2 |
|---|---|
|  |  |

Scan QR to view Tool & Die Charts

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | FIG NO. |
|---|---|---|
| **PTS6** | 6 STR | 1 |
| **PTS4** | 4 STR | 1 |
| **PTS2** | 2 STR | 1 |
| **PTS1** | 1 STR | 1 |
| **PTS1/0** | 1/0 STR | 1 |
| **PTS2/0** | 2/0 STR | 1 |
| **PTS3/0** | 3/0 STR | 1 |
| **PTS4/0** | 4/0 STR | 1 |
| **PTS250** | 250 MCM | 1 |
| **PTS300** | 300 MCM | 1 |
| **PTS350** | 350 MCM | 1 |
| **PTS400** | 400 MCM | 1 |
| **PTS500** | 500 MCM | 1 |
| **PTS600** | 600 MCM | 1 |
| **PTS750** | 750 MCM | 1 |
| **PTO-2/0** | 2/0 AWG | 2 |
| **PTO-3/0** | 3/0 AWG | 2 |
| **PTO-4/0** | 4/0 AWG | 2 |
| **PTO-250** | 250 MCM | 2 |
| **PTO-300** | 300 MCM | 2 |
| **PTO-350** | 350 MCM | 2 |
| **PTO-400** | 400 MCM | 2 |
| **PTO-500** | 500 MCM | 2 |
| **PTO-600** | 600 MCM | 2 |
| **PTO-750** | 750 MCM | 2 |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 147**





nsi INDUSTRIES



| COLOR CODE | PIN SIZE | O.D. | I.D. | PIN DIA. (A) | LENGTH (L) | PIN LENGTH (L1) | BODY LENGTH (L2) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| Tan | 4 | 0.598 | 0.220 | 0.240 | 1.850 | 0.681 | 1.169 | 25 |
| Tan | 4 | 0.598 | 0.236 | 0.240 | 1.850 | 0.681 | 1.169 | 25 |
| Tan | 4 | 0.598 | 0.299 | 0.240 | 1.840 | 0.680 | 1.160 | 25 |
| Tan | 3 | 0.598 | 0.318 | 0.250 | 1.990 | 0.830 | 1.160 | 10 |
| Tan | 2 | 0.598 | 0.370 | 0.290 | 1.990 | 0.830 | 1.160 | 10 |
| White | 1 | 0.850 | 0.429 | 0.330 | 2.200 | 0.830 | 1.370 | 10 |
| White | 1/0 | 0.850 | 0.476 | 0.370 | 2.590 | 1.220 | 1.370 | 10 |
| White | 2/0 | 0.850 | 0.535 | 0.420 | 2.590 | 1.220 | 1.370 | 10 |
| Brown | 3/0 | 1.090 | 0.594 | 0.460 | 2.620 | 1.220 | 1.400 | 10 |
| Brown | 4/0 | 1.090 | 0.653 | 0.530 | 2.730 | 1.330 | 1.400 | 10 |
| Brown | 250 | 1.090 | 0.716 | 0.570 | 2.730 | 1.330 | 1.400 | 10 |
| Pink | 300 | 1.310 | 0.763 | 0.620 | 3.070 | 1.590 | 1.480 | 10 |
| Pink | 350 | 1.310 | 0.826 | 0.680 | 3.070 | 1.590 | 1.480 | 10 |
| Yellow | 400 | 1.460 | 0.921 | 0.720 | 3.670 | 1.640 | 2.030 | 3 |
| Yellow | 500 | 1.460 | 1.027 | 0.810 | 3.780 | 1.750 | 2.030 | 3 |
| White | 1 | 0.850 | 0.440 | 0.330 | 2.690 | 1.120 | 1.570 | 10 |
| White | 1/0 | 0.850 | 0.500 | 0.370 | 2.800 | 1.250 | 1.550 | 10 |
| White | 2/0 | 0.850 | 0.547 | 0.420 | 2.780 | 1.270 | 1.510 | 10 |
| Brown | 3/0 | 1.090 | 0.594 | 0.460 | 2.780 | 1.270 | 1.510 | 10 |
| Brown | 4/0 | 1.090 | 0.657 | 0.530 | 3.080 | 1.460 | 1.620 | 10 |
| Brown | 250 | 1.090 | 0.704 | 0.570 | 3.080 | 1.460 | 1.620 | 10 |
| Pink | 300 | 1.310 | 0.763 | 0.620 | 3.380 | 1.680 | 1.700 | 10 |
| Pink | 350 | 1.310 | 0.842 | 0.680 | 3.380 | 1.680 | 1.700 | 10 |
| Yellow | 400 | 1.460 | 0.821 | 0.720 | 3.990 | 1.720 | 2.270 | 3 |
| Yellow | 500 | 1.460 | 1.031 | 0.810 | 4.180 | 1.720 | 2.460 | 3 |

FIGURE 1

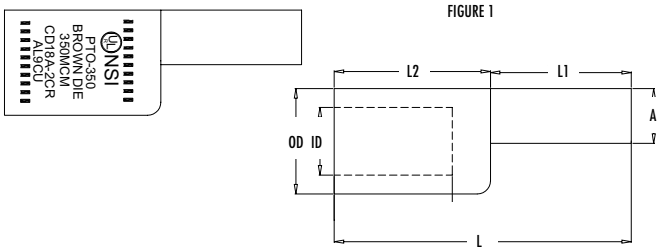
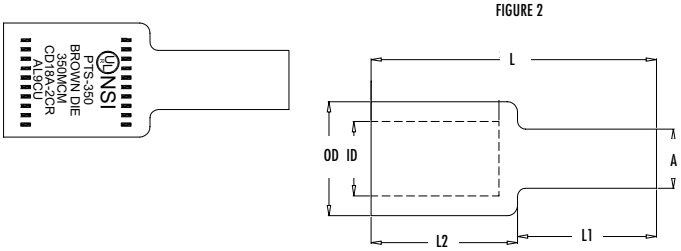



FIGURE 2



COMPRESSION CONNECTORS

# Dual Rated Wide Range Tap Connectors and Covers

WRD, C SERIES



## DUAL RATED WIDE RANGE TAP CONNECTORS

- For combinations of aluminum and aluminum-copper conductors.
- Standard compression tools and dies install all sizes.
- Formable ribs provide broader contact area.
- Fold-in tabs provide positive tab interlock as tool closes.
- Made from high strength aluminum alloy.
- All connectors are reversible.

## RATINGS

**RATING:**
600V.

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 149

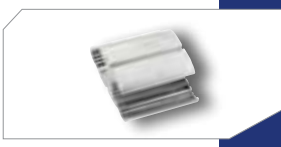
## DUAL RATED INSULATING COVERS



- Hinged polyurethane cover for easy installation of WRD series tap connectors.
- Eliminates taping.
- Drain ports prevent accumulation of moisture.
- Ultraviolet stabilized.

| CAT. NO. | CAPACITY | STD. CTN. QTY. |
|---|---|---|
| **C2** | All 5/8" OD. Sleeve 2" long or less | 12 |
| **C5** | All "O" die taps 1 3/4" long or less | 12 |
| **C7** | All "D" die taps 2 1/2" long or less | 6 |
| **C9** | All "N" die taps up to 2" long | 4 |

Scan QR to view Tool & Die Charts



| CAT. NO. | STANDARD CONDUCTOR RANGE | | | | | | COMPACT CONDUCTOR | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A GROOVE | | | B GROOVE | | | A GROOVE | | B GROOVE | | |
| | ACSR | STR | SOL | ACSR | STR | SOL | ACSR | STR | ACSR | STR | |
| | - | 1 | - | - | 1 | - | 1 | 1 | 1 | 1 | 25 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 25 |
| **WRD159** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 25 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 25 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 25 |
| | - | - | 3/0 | - | - | 1/0 | - | - | - | - | 25 |
| | - | 2/0 | 2/0 | - | 1 | 1 | 2/0 | 2/0 | 1 | 1 | 25 |
| **WRD189** | 1/0 | 1/0 | 1/0 | 2 | 2 | 1/0 | 1/0 | 2 | 2 | - | 25 |
| | 1 | 1 | 1 | 3 | 3 | 3 | 1 | 1 | 3 | 3 | 25 |
| | 2 | 2 | - | 4 | 4 | 4 | 2 | 2 | 4 | 4 | 25 |
| | 3 | - | - | 6 | 6 | 6 | - | - | 6 | 6 | 25 |
| | - | - | 4/0 | - | 3/0 | 3/0 | - | - | - | - | 25 |
| | - | 3/0 | 3/0 | 2/0 | 2/0 | 2/0 | 3/0 | 3/0 | 3/0 | 3/0 | 25 |
| **WRD279** | 2/0 | 2/0 | 2/0 | 1/0 | 1/0 | - | 2/0 | 2/0 | 2/0 | 2/0 | 25 |
| | 1/0 | 4/0 | - | 1 | - | - | 1/0 | 1/0 | 1/0 | 1/0 | 25 |
| | 1 | - | - | - | - | - | - | - | - | - | 25 |
| | - | - | - | - | - | 1/0 | - | - | - | - | 25 |
| | - | - | - | - | 1 | 1 | - | - | 1 | 1 | 25 |
| **WRD289** | - | - | 4/0 | 2 | 2 | 2 | 3/0 | 3/0 | 2 | 2 | 25 |
| | - | 3/0 | 3/0 | 3 | 3 | 3 | 2/0 | - | 3 | 3 | 25 |
| | 2/0 | 2/0 | - | 4 | 4 | 4 | - | - | 4 | 4 | 25 |
| | 1/0 | - | - | 6 | 6 | 6 | - | - | 6 | 6 | 25 |
| | - | - | - | - | - | 1/0 | - | - | - | - | 25 |
| | - | - | - | - | 1 | 1 | - | - | 1 | 1 | 25 |
| | - | - | - | 2 | 2 | 2 | 266-18/1 | 266 | 2 | 2 | 25 |
| **WRD379** | 4/0 | 4/0 | - | 3 | 3 | 3 | 250 | 250 | 3 | 3 | 25 |
| | 3/0 | - | - | 4 | 4 | 4 | 4/0 | 4/0 | 4 | 4 | 25 |
| | - | - | - | 6 | 6 | 6 | - | - | 6 | 6 | 25 |
| | - | - | - | - | - | 3/0 | 266-18/1 | 266 | - | - | 25 |
| | - | - | - | 2/0 | 2/0 | 2/0 | - | 250 | - | 3/0 | 25 |
| **WRD399** | 4/0 | 4/0 | - | 1/0 | 1/0 | - | 4/0 | 4/0 | 2/0 | 2/0 | 25 |
| | 3/0 | 3/0 | - | 1 | - | - | 3/0 | - | 1/0 | 1/0 | 25 |
| | - | - | - | - | - | - | 266-18/1 | 266-18/1 | 266-18/1 | 266 | 25 |
| **WRD419** | 4/0 | 4/0 | - | 4/0 | 4/0 | - | - | 250 | - | 250 | 25 |
| | 3/0 | 3/0 | - | 3/0 | 3/0 | - | 4/0 | 4/0 | 4/0 | 4/0 | 25 |

COMPRESSION CONNECTORS

# Dual Rated Wide Range Tap Connectors

WRD SERIES CONTINUED



## FEATURES

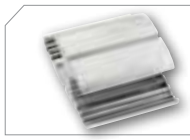
- For combinations of aluminum and aluminum-copper conductors.
- Standard compression tools and dies install all sizes.
- Formable ribs provide broader contact area.
- Fold-in tabs provide positive tab interlock as tool closes.
- Made from high strength aluminum alloy.
- All connectors are reversible.

## RATINGS

**RATING:**
600V.

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 149

Scan QR to view Tool & Die Charts



| CAT. NO. | STANDARD CONDUCTOR RANGE | | | | | | COMPACT CONDUCTOR | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A GROOVE | | | B GROOVE | | | A GROOVE | | B GROOVE | | |
| | ACSR | STR | SOL | ACSR | STR | SOL | ACSR | STR | ACSR | STR | |
| WRD9 | - | - | 1 | - | 8 | 8 | - | - | - | - | 50 |
| | 3 | 2 | 2 | - | 10 | 10 | - | - | - | - | 50 |
| | 4 | 3 | 3 | - | 12 | 12 | - | - | - | - | 50 |
| | 6 | 4 | 4 | - | 14 | 14 | - | - | - | - | 50 |
| | 6 | - | - | - | - | - | | - | - | - | 50 |
| WRD139 | - | 2/0 | - | - | - | - | - | - | - | - | 25 |
| | 1/0 | 1/0 | - | - | - | - | - | - | - | - | 25 |
| | 1 | 1 | 1 | - | - | 6 | - | - | - | - | 25 |
| | 2 | 2 | 2 | - | - | - | - | - | - | - | 25 |
| | 3 | 3 | - | - | 10 | 10 | - | - | - | - | 25 |
| | 4 | - | - | - | - | - | - | - | - | - | 25 |
| WRD149 | - | - | 2 | - | - | 2 | - | 2 | - | 2 | 25 |
| | - | 3 | 3 | - | 3 | 3 | - | 3 | 3 | 3 | 25 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 25 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 25 |
| WRD179 | 1/0 | 1/0 | - | - | - | 2 | - | 2/0 | - | 2 | 25 |
| | 1 | 1 | 1 | - | 3 | 3 | 1/0 | 1/0 | - | 3 | 25 |
| | 2 | 2 | - | 4 | 4 | 4 | 1 | 1 | 4 | 4 | 25 |
| | 3 | - | - | 6 | 6 | 6 | 2 | 2 | 6 | 6 | 25 |
| WRD199 | 1/0 | 1/0 | - | - | 1 | 1 | - | 2/0 | 1 | 1 | 25 |
| | 1 | 1 | 1 | 2 | 2 | 2 | 1/0 | 1/0 | 2 | 2 | 25 |
| | 2 | 2 | - | 3 | 3 | - | 1 | 1 | 3 | - | 25 |
| | 3 | - | - | 4 | 4 | - | 2 | 2 | 4 | - | 25 |
| WRD219 | 1/0 | 1/0 | - | 1/0 | 1/0 | - | - | 2/0 | - | 2/0 | 25 |
| | 1 | 1 | - | 1 | 1 | - | 1/0 | 1/0 | 1/0 | 1/0 | 25 |
| | - | - | - | 2 | - | - | - | - | 1 | - | 25 |
| WRD259 | - | 2/0 | - | - | 2/0 | - | 2/0 | 2/0 | 2/0 | 2/0 | 25 |
| | 1/0 | 1/0 | - | 1/0 | 1/0 | - | 1/0 | 1/0 | 1/0 | 1/0 | 25 |
| | 1 | - | - | 1 | - | - | - | - | - | - | 25 |
| WRD299 | - | 3/0 | - | - | - | 2 | 3/0 | 3/0 | - | 2 | 25 |
| | 2/0 | 2/0 | - | - | 3 | 3 | 2/0 | - | - | 3 | 25 |
| | 1/0 | - | - | 4 | 4 | 4 | - | - | 4 | 4 | 25 |
| | - | - | - | 6 | 6 | 6 | - | - | 6 | 6 | 25 |
| WRD359 | - | - | - | - | 1/0 | - | - | - | - | - | 25 |
| | 4/0 | 4/0 | - | 1 | 1 | 1 | 266 | 266 | 1/0 | 1/0 | 25 |
| | 3/0 | 3/0 | - | 2 | 2 | - | - | 250 | 1 | 1 | 25 |
| | - | - | - | 3 | 3 | - | 4/0 | 4/0 | 2 | 2 | 25 |
| | - | - | - | 4 | - | - | 3/0 | - | - | - | 25 |
| WRD369 | 4/0 | 4/0 | - | 1/0 | 1/0 | 1/0 | 266 | 266 | 1/0 | 1/0 | 25 |
| | 3/0 | 3/0 | - | 1 | 1 | 1 | - | 250 | 1 | 1 | 25 |
| | 2/0 | - | - | 2 | 2 | 2 | 4/0 | 4/0 | 2 | 2 | 25 |
| | - | - | - | 3 | 3 | - | 3/0 | 3/0 | 3 | - | 25 |
| | - | - | - | 4 | 4 | - | - | - | 4 | - | 25 |
| WRD389 | - | - | - | - | - | - | 266 | 266 | - | - | 25 |
| | 4/0 | 4/0 | - | - | 3/0 | - | - | 250 | 3/0 | 3/0 | 25 |
| | 3/0 | 3/0 | - | 2/0 | 2/0 | - | 4/0 | 4/0 | 2/0 | - | 25 |
| | - | - | - | 1/0 | - | - | 3/0 | - | - | - | 25 |

COMPRESSION CONNECTORS

# Dual Rated Meter Socket Lugs

CAL SERIES



## FEATURES

- Made of dead-soft EC grade aluminum.
- 840 common dies – one die installs on all sizes.
- For aluminum or copper conductors.
- Pre-filled with oxide inhibitor.
- Installing dies (color red): .840, 18, 324, TX, 76, 11A, 249.

## RATINGS

Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.

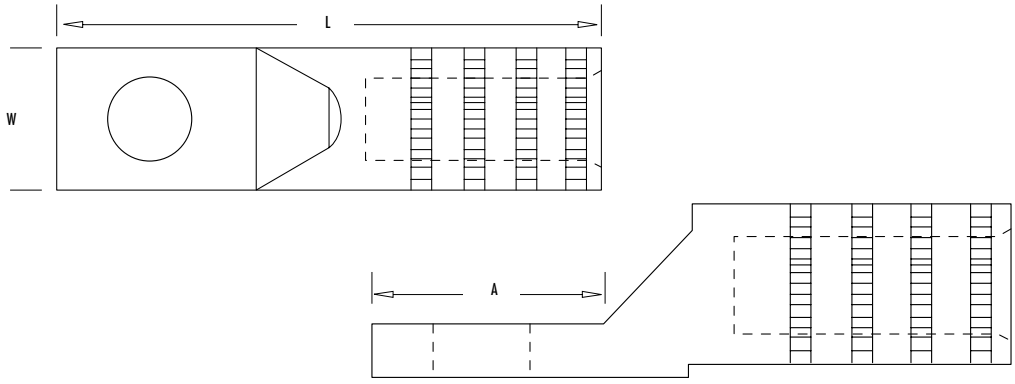
**RATING:**
600V.

All dimensional data is listed in inches.

| CAT. NO. |
|---|
| CAL4 |
| CAL2 |
| CAL1-48 |
| CAL10 |
| CAL20 |
| CAL20-48 |
| CAL30-48 |
| CAL 40 |
| CAL40-48 |



| CONDUCTOR | | | BOLT SIZE | LENGTH (L) | WIDTH (W) | TANG LENGTH (A) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| STRANDED | SOLID | COMPACT | | | | | |
| 4 | 3 | 4 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 2 | 1 | 2 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 1 | 1/0 | 1 | 1/2 | 3.250 | 0.3125 | 1.3125 | 12 |
| 1/0 | 2/0 | 1/0 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 2/0 | 3/0 | 2/0 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 2/0 | 3/0 | 2/0 | 1/2 | 3.250 | 0.3125 | 1.3125 | 12 |
| 3/0 | 4/0 | 3/0 | 1/2 | 3.250 | 0.3125 | 1.3125 | 12 |
| 4/0 | - | 4/0 | 3/8 | 3.250 | 0.3125 | 1.3125 | 12 |
| 4/0 | - | 4/0 | 1/2 | 3.250 | 0.3125 | 1.3125 | 12 |



COMPRESSION CONNECTORS

# Dual Rated Insulated Service Entrance Sleeves

ISE SERIES



## FEATURES

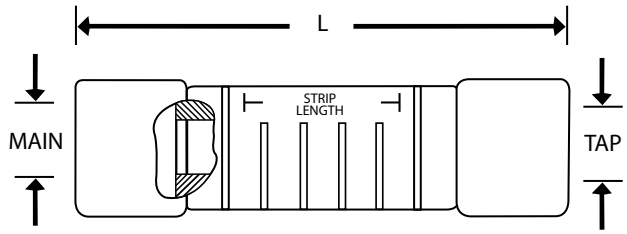
- Pre-insulated service entrance compression sleeves for fast and easy installation with standard tools and dies.
- For combinations of aluminum-aluminum and aluminum-copper conductors.
- Solid center barrier.

## RATINGS

Meets or exceeds ANSI C119.4.

Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.

**RATING:**
600V




All dimensional data is listed in inches.

| CAT. NO. | DIE SIZE | TOOL |
|---|---|---|
| **ISE61** | 5/8 | OD581 |
| **ISE62** | 5/8 | OD581 |
| **ISE63** | 5/8 | OD581 |
| **ISE64** | 5/8 | OD581 |
| **ISE65** | 5/8 | OD581 |
| **ISE66** | 5/8 | OD581 |
| **ISE67** | 5/8 | OD581 |
| **ISE68** | 5/8 | OD581 |
| **ISE71** | 5/8 | OD581 |
| **ISE72** | 5/8 | OD581 |
| **ISE73** | 5/8 | OD581 |
| **ISE76** | 5/8 | OD581 |
| **ISE77** | 5/8 | OD581 |
| **ISE78** | 5/8 | OD581 |
| **ISE135** | 0.840 | OD581+BY377C |
| **ISE136** | 0.840 | OD581+BY377C |
| **ISE144** | 0.840 | OD581+BY377C |
| **ISE145** | 0.840 | OD581+BY377C |
| **ISE146** | 0.840 | OD581+BY377C |
| **ISE147** | 0.840 | OD581+BY377C |
| **ISE154** | 0.840 | OD581+BY377C |
| **ISE155** | 0.840 | OD581+BY377C |
| **ISE156** | 0.840 | OD581+BY377C |
| **ISE158** | 0.840 | OD581+BY377C |
| **ISE164** | 0.840 | OD581+BY377C |
| **ISE165** | 0.840 | OD581+BY377C |
| **ISE167** | 0.840 | OD581+BY377C |
| **ISE168** | 0.840 | OD581+BY377C |
| **ISE169** | 0.840 | OD581+BY377C |

*compact



| CONDUCTOR RANGE MAIN | | | CONDUCTOR RANGE TAP | | | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| ACSR | AWG | COLOR CODE | ACSR | AWG | COLOR CODE | | |
| - | 8 STR-6 SOL | Green | - | 8 STR-6 SOL | Green | 2.780 | 50 |
| 6 | 6 STR-4 SOL | Blue | - | 10 STR-8 SOL | Brown | 2.780 | 50 |
| 6 | 6 STR-4 SOL | Blue | - | 8 STR-6 SOL | Green | 2.780 | 50 |
| 6 | 6 STR-4 SOL | Blue | 6 | 6 STR-4 SOL | Blue | 2.780 | 50 |
| 4 | 3-4 STR-2 SOL | Orange | - | 10 STR-8 SOL | Brown | 2.780 | 50 |
| 4 | 3-4 STR-2 SOL | Orange | - | 8 STR-6 SOL | Green | 2.780 | 50 |
| 4 | 3-4 STR-2 SOL | Orange | 6 | 6 STR-4 SOL | Blue | 2.780 | 50 |
| 4 | 3-4 STR-2 SOL | Orange | 4 | 3-4 STR-2 SOL | Orange | 2.780 | 50 |
| 2 | 1-2 STR | Red | 6 | 6 STR-4 SOL | Blue | 2.780 | 50 |
| 2 | 1-2 STR | Red | 4 | 3-4 STR-2 SOL | Orange | 2.780 | 50 |
| 2 | 1-2 STR | Red | 2 | 1-2 STR | Red | 2.780 | 50 |
| 1/0 | 1/0 | Yellow | 4 | 3-4 STR-2 SOL | Orange | 2.780 | 50 |
| 1/0 | 1/0 | Yellow | 2 | 1-2 STR | Red | 2.780 | 50 |
| 1/0 | 1/0 | Yellow | - | 1/0 STR | Yellow | 2.780 | 50 |
| 1/0 | 1/0, 2/0 STR* | Yellow | 2 | 1-2 STR | Red | 5.500 | 12 |
| 1/0 | 1/0, 2/0 STR* | Yellow | 1/0 | 1/0 STR, 2/0 COM | Yellow | 5.500 | 12 |
| 2/0 | 2/0, 3/0 STR* | Gray | 4 | 3-4 STR-2 SOL | Orange | 5.500 | 12 |
| 2/0 | 2/0, 3/0 STR* | Gray | 2 | 1-2 STR | Red | 5.500 | 12 |
| 2/0 | 2/0, 3/0 STR* | Gray | 1/0 | 1/0 STR, 2/0 COM | Yellow | 5.500 | 12 |
| 2/0 | 2/0, 3/0 STR* | Gray | 2/0 | 2/0 STR, 3/0 COM | Gray | 5.500 | 12 |
| 3/0 | 3/0, 4/0 STR* | Black | 4 | 3-4 STR, 2 SOL | Orange | 5.500 | 12 |
| 3/0 | 3/0, 4/0 STR* | Black | 2 | 1-2 STR | Red | 5.500 | 12 |
| 3/0 | 3/0, 4/0 STR* | Black | 1/0 | 1/0 STR, 2/0 COM | Yellow | 5.500 | 12 |
| 3/0 | 3/0, 4/0 STR* | Black | 3/0 | 3/0 STR, 4/0 COM | Black | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 4 | 3-4 STR-2 SOL | Orange | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 2 | 1-2 STR | Red | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 2/0 | 2/0 STR, 3/0 COM | Gray | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 3/0 | 3/0 STR, 4/0 COM | Black | 5.500 | 12 |
| 4/0 | 4/0 STR | Pink | 4/0 | 4/0 STR | Pink | 5.500 | 12 |

COMPRESSION CONNECTORS

# Long Barrel One Hole Copper Lugs

L SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions.
- For applications greater than 2000V, consult the cable manufacturer for voltage stress relief instructions.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE** |
|---|---|---|
| L810 | 8 AWG | 8 - 10 AWG |
| L810P | 8 AWG | 8 - 10 AWG |
| L814 | 8 AWG | 8 - 10 AWG |
| L814P | 8 AWG | 8 - 10 AWG |
| L838 | 8 AWG | 8 - 10 AWG |
| L838P | 8 AWG | 8 - 10 AWG |
| L610 | 6 AWG | 6 - 8 AWG |
| L614 | 6 AWG | 6 - 8 AWG |
| L614P | 6 AWG | 6 - 8 AWG |
| L638 | 6 AWG | 6 - 8 AWG |
| L638P | 6 AWG | 6 - 8 AWG |
| L656 | 6 AWG | 6 - 8 AWG |
| L656P | 6 AWG | 6 - 8 AWG |
| L410 | 4 AWG | 4 - 6 AWG |
| L414 | 4 AWG | 4 - 6 AWG |
| L414P | 4 AWG | 4 - 6 AWG |
| L438 | 4 AWG | 4 - 6 AWG |
| L438P | 4 AWG | 4 - 6 AWG |
| L456 | 4 AWG | 4 - 6 AWG |
| L456P | 4 AWG | 4 - 6 AWG |
| L314 | 3 AWG | 3 - 6 AWG |
| L356 | 3 AWG | 3 - 6 AWG |
| L338 | 3 AWG | 3 - 6 AWG |
| L214 | 2 AWG | 2 - 6 AWG |
| L214P | 2 AWG | 2 - 6 AWG |
| L256 | 2 AWG | 2 - 6 AWG |
| L256P | 2 AWG | 2 - 6 AWG |
| L238 | 2 AWG | 2 - 6 AWG |
| L238P | 2 AWG | 2 - 6 AWG |
| L156 | 1 AWG | 1 - 6 AWG |
| L138 | 1 AWG | 1 - 6 AWG |
| L1014 | 1/0 AWG | 1/0 - 6 AWG |
| L1014P | 1/0 AWG | 1/0 - 6 AWG |
| L1038 | 1/0 AWG | 1/0 - 6 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143



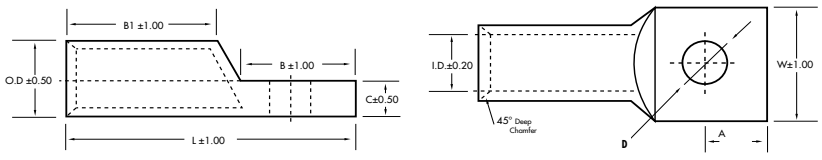
Scan QR to view Tool & Die Charts



nsi INDUSTRIES



| BOLT SIZE | I.D. | O.D. | LENGTH (L) | WIDTH (W) | A | B | B1 | C | D | COLOR | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| #10 | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.210 | Red | 100 |
| #10 | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.210 | Red | 100 |
| 1/4" | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.252 | Red | 100 |
| 1/4" | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.252 | Red | 100 |
| 3/8" | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.413 | Red | 100 |
| 3/8" | 0.205 | 0.295 | 1.520 | 0.420 | 0.280 | 0.590 | 0.810 | 0.080 | 0.413 | Red | 100 |
| #10 | 0.205 | 0.295 | 1.770 | 0.420 | 0.300 | 0.640 | 0.980 | 0.083 | 0.210 | Blue | 100 |
| 1/4" | 0.205 | 0.295 | 1.772 | 0.421 | 0.295 | 0.669 | 0.984 | 0.083 | 0.252 | Blue | 100 |
| 1/4" | 0.205 | 0.295 | 1.772 | 0.421 | 0.295 | 0.669 | 0.984 | 0.083 | 0.252 | Blue | 100 |
| 3/8" | 0.205 | 0.295 | 1.913 | 0.591 | 0.370 | 0.811 | 0.984 | 0.083 | 0.413 | Blue | 100 |
| 3/8" | 0.205 | 0.295 | 1.913 | 0.591 | 0.370 | 0.811 | 0.984 | 0.083 | 0.413 | Blue | 100 |
| 5/16" | 0.205 | 0.295 | 1.910 | 0.590 | 0.370 | 0.810 | 0.980 | 0.083 | 0.330 | Blue | 100 |
| 5/16" | 0.205 | 0.295 | 1.910 | 0.590 | 0.370 | 0.810 | 0.980 | 0.083 | 0.330 | Blue | 100 |
| #10 | 0.252 | 0.343 | 1.770 | 0.488 | 0.315 | 0.669 | 0.980 | 0.087 | 0.210 | Gray | 100 |
| 1/4" | 0.252 | 0.343 | 1.772 | 0.488 | 0.315 | 0.669 | 0.984 | 0.087 | 0.252 | Gray | 100 |
| 1/4" | 0.252 | 0.343 | 1.772 | 0.488 | 0.315 | 0.669 | 0.984 | 0.087 | 0.252 | Gray | 100 |
| 3/8" | 0.252 | 0.343 | 1.913 | 0.591 | 0.370 | 0.811 | 0.984 | 0.087 | 0.413 | Gray | 100 |
| 3/8" | 0.252 | 0.343 | 1.913 | 0.591 | 0.370 | 0.811 | 0.984 | 0.087 | 0.413 | Gray | 100 |
| 5/16" | 0.252 | 0.343 | 1.772 | 0.488 | 0.315 | 0.669 | 0.984 | 0.087 | 0.331 | Gray | 100 |
| 5/16" | 0.252 | 0.343 | 1.772 | 0.488 | 0.315 | 0.669 | 0.984 | 0.087 | 0.331 | Gray | 100 |
| 1/4" | 0.270 | 0.377 | 2.344 | 0.531 | 0.323 | 0.828 | 1.169 | 0.097 | 0.277 | White | 100 |
| 5/16" | 0.270 | 0.377 | 2.157 | 0.538 | 0.346 | 0.767 | 1.120 | 0.091 | 0.336 | White | 50 |
| 3/8" | 0.270 | 0.377 | 2.351 | 0.550 | 0.418 | 0.823 | 1.188 | 0.083 | 0.397 | White | 50 |
| 1/4" | 0.315 | 0.421 | 2.071 | 0.602 | 0.206 | 0.811 | 1.102 | 0.102 | 0.252 | Brown | 50 |
| 1/4" | 0.315 | 0.421 | 2.071 | 0.602 | 0.206 | 0.811 | 1.102 | 0.102 | 0.252 | Brown | 50 |
| 5/16" | 0.315 | 0.421 | 2.071 | 0.602 | 0.370 | 0.811 | 1.102 | 0.102 | 0.331 | Brown | 50 |
| 5/16" | 0.315 | 0.421 | 2.071 | 0.602 | 0.370 | 0.811 | 1.102 | 0.102 | 0.331 | Brown | 50 |
| 3/8" | 0.315 | 0.421 | 2.071 | 0.602 | 0.370 | 0.811 | 1.102 | 0.102 | 0.413 | Brown | 50 |
| 3/8" | 0.315 | 0.421 | 2.071 | 0.602 | 0.370 | 0.811 | 1.102 | 0.102 | 0.413 | Brown | 50 |
| 5/16" | 0.358 | 0.469 | 2.110 | 0.673 | 0.370 | 0.811 | 1.102 | 0.106 | 0.331 | Green | 50 |
| 3/8" | 0.358 | 0.469 | 2.209 | 0.673 | 0.370 | 0.811 | 1.102 | 0.106 | 0.413 | Green | 50 |
| 1/4" | 0.390 | 0.520 | 2.210 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.210 | Pink | 50 |
| 1/4" | 0.390 | 0.520 | 2.210 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.210 | Pink | 50 |
| 3/8" | 0.390 | 0.520 | 2.209 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.413 | Pink | 50 |



COMPRESSION CONNECTORS

# Long Barrel One Hole Copper Lugs

L SERIES CONTINUED



## FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions
- For applications greater than 2000V, consult the cable manufacturer for voltage stress relief instructions.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| L1038P | 1/0 AWG | 1/0 - 6 AWG |
| L1056 | 1/0 AWG | 1/0 - 6 AWG |
| L1056P | 1/0 AWG | 1/0 - 6 AWG |
| L1048 | 1/0 AWG | 1/0 - 6 AWG |
| L2014 | 2/0 AWG | 2/0 - 4 AWG |
| L2014P | 2/0 AWG | 2/0 - 4 AWG |
| L2038 | 2/0 AWG | 2/0 - 4 AWG |
| L2038P | 2/0 AWG | 2/0 - 4 AWG |
| L2048 | 2/0 AWG | 2/0 - 4 AWG |
| L2048P | 2/0 AWG | 2/0 - 4 AWG |
| L3014 | 3/0 AWG | 3/0 - 2 AWG |
| L3014P | 3/0 AWG | 3/0 - 2 AWG |
| L3038 | 3/0 AWG | 3/0 - 2 AWG |
| L3038P | 3/0 AWG | 3/0 - 2 AWG |
| L3048 | 3/0 AWG | 3/0 - 2 AWG |
| L3048P | 3/0 AWG | 3/0 - 2 AWG |
| L4014 | 4/0 AWG | 4/0 - 1 AWG |
| L4014P | 4/0 AWG | 4/0 - 1 AWG |
| L4038 | 4/0 AWG | 4/0 - 1 AWG |
| L4038P | 4/0 AWG | 4/0 - 1 AWG |
| L4048 | 4/0 AWG | 4/0 - 1 AWG |
| L4048P | 4/0 AWG | 4/0 - 1 AWG |
| L25048 | 250 MCM | 250 MCM - 1/0 AWG |
| L30048 | 300 MCM | 300 MCM - 2/0 AWG |
| L35048 | 350 MCM | 350 MCM - 3/0 AWG |
| L40048 | 400 MCM | 400 MCM - 4/0 AWG |
| L50048 | 500 MCM | 500 - 250 MCM |
| L50058 | 500 MCM | 500 - 250 MCM |
| L60058 | 600 MCM | 600 - 250 MCM |
| L75048 | 750 MCM | 750 - 500 MCM |
| L75058 | 750 MCM | 750 - 500 MCM |
| L10058 | 1000 MCM | - |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**



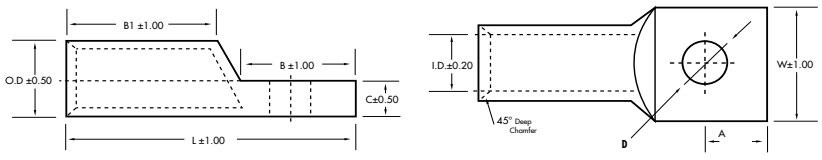
Scan QR to view Tool & Die Charts



nsi INDUSTRIES



| BOLT SIZE (IN). | I.D. | O.D. | LENGTH (L) | WIDTH (W) | A | B | B1 | C | D | COLOR | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/8" | 0.390 | 0.520 | 2.209 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.413 | Pink | 50 |
| 5/16" | 0.390 | 0.520 | 2.210 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.330 | Pink | 50 |
| 5/16" | 0.390 | 0.520 | 2.210 | 0.744 | 0.370 | 0.811 | 1.201 | 0.126 | 0.330 | Pink | 50 |
| 1/2" | 0.390 | 0.520 | 2.500 | 0.744 | 0.472 | 1.063 | 1.201 | 0.126 | 0.512 | Pink | 50 |
| 1/4" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.252 | Black | 25 |
| 1/4" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.252 | Black | 25 |
| 3/8" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.413 | Black | 25 |
| 3/8" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.413 | Black | 25 |
| 1/2" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.512 | Black | 25 |
| 1/2" | 0.441 | 0.563 | 2.677 | 0.815 | 0.472 | 1.063 | 1.378 | 0.118 | 0.512 | Black | 25 |
| 1/4" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.252 | Orange | 25 |
| 1/4" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.252 | Orange | 25 |
| 3/8" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.413 | Orange | 25 |
| 3/8" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.413 | Orange | 25 |
| 1/2" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.512 | Orange | 25 |
| 1/2" | 0.492 | 0.622 | 2.795 | 0.902 | 0.472 | 1.063 | 1.378 | 0.126 | 0.512 | Orange | 25 |
| 1/4" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.252 | Purple | 25 |
| 1/4" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.252 | Purple | 25 |
| 3/8" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.413 | Purple | 25 |
| 3/8" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.413 | Purple | 25 |
| 1/2" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.512 | Purple | 25 |
| 1/2" | 0.547 | 0.689 | 2.795 | 1.000 | 0.520 | 1.063 | 1.417 | 0.134 | 0.512 | Purple | 25 |
| 1/2" | 0.594 | 0.752 | 3.031 | 1.091 | 0.520 | 1.063 | 1.614 | 0.150 | 0.512 | Yellow | 25 |
| 1/2" | 0.657 | 0.815 | 3.386 | 1.189 | 0.520 | 1.063 | 1.969 | 0.150 | 0.512 | White | 12 |
| 1/2" | 0.701 | 0.874 | 3.465 | 1.276 | 0.520 | 1.063 | 1.969 | 0.165 | 0.512 | Red | 12 |
| 1/2" | 0.764 | 0.949 | 3.858 | 1.386 | 0.512 | 1.378 | 1.969 | 0.177 | 0.512 | Blue | 6 |
| 1/2" | 0.835 | 1.063 | 4.134 | 1.539 | 0.512 | 1.378 | 2.244 | 0.217 | 0.512 | Brown | 6 |
| 5/8" | 0.835 | 1.063 | 4.134 | 1.539 | 0.512 | 1.378 | 2.244 | 0.217 | 0.669 | Brown | 6 |
| 5/8" | 0.925 | 1.189 | 4.252 | 1.717 | 0.689 | 1.457 | 2.244 | 0.252 | 0.669 | Green | 6 |
| 1/2" | 1.031 | 1.311 | 5.157 | 1.902 | 0.689 | 1.850 | 2.638 | 0.268 | 0.512 | Black | 3 |
| 5/8" | 1.031 | 1.311 | 5.157 | 1.902 | 0.689 | 1.850 | 2.638 | 0.268 | 0.669 | Black | 3 |
| 5/8" | 1.184 | 1.494 | 5.613 | 2.148 | 0.866 | 1.776 | 2.603 | 0.328 | 0.663 | White | 3 |



COMPRESSION CONNECTORS

# Long Barrel Copper Lugs Two Hole

LN SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.
- Additional mounting hole spacing options available on request.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us LISTED 155027

SA 701642

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| L8N-14 | 8 AWG | 8 - 10 AWG |
| L8N-14P | 8 AWG | 8 - 10 AWG |
| L8N-141 | 8 AWG | 8 - 10 AWG |
| L8N-141P | 8 AWG | 8 - 10 AWG |
| L8N-142 | 8 AWG | 8 - 10 AWG |
| L8N-142P | 8 AWG | 8 - 10 AWG |
| L8N-38 | 8 AWG | 8 - 10 AWG |
| L8N-38P | 8 AWG | 8 - 10 AWG |
| L8N-383 | 8 AWG | 8 - 10 AWG |
| L8N-383P | 8 AWG | 8 - 10 AWG |
| L8N-563 | 8 AWG | 8 - 10 AWG |
| L8N-563P | 8 AWG | 8 - 10 AWG |
| L6N-12 | 6 AWG | 6 - 8 AWG |
| L6N-14 | 6 AWG | 6 - 8 AWG |
| L6N-14P | 6 AWG | 6 - 8 AWG |
| L6N-141 | 6 AWG | 6 - 8 AWG |
| L6N-141P | 6 AWG | 6 - 8 AWG |
| L6N-142 | 6 AWG | 6 - 8 AWG |
| L6N-142P | 6 AWG | 6 - 8 AWG |
| L6N-38 | 6 AWG | 6 - 8 AWG |
| L6N-38P | 6 AWG | 6 - 8 AWG |
| L6N-382 | 6 AWG | 6 - 8 AWG |
| L6N-382P | 6 AWG | 6 - 8 AWG |
| L6N | 6 AWG | 6 - 8 AWG |
| L6NP | 6 AWG | 6 - 8 AWG |
| L4N-14 | 4 AWG | 4 - 6 AWG |
| L4N-14P | 4 AWG | 4 - 6 AWG |
| L4N-141 | 4 AWG | 4 - 6 AWG |
| L4N-141P | 4 AWG | 4 - 6 AWG |
| L4N-142 | 4 AWG | 4 - 6 AWG |
| L4N-142P | 4 AWG | 4 - 6 AWG |
| L4N-38 | 4 AWG | 4 - 6 AWG |
| L4N-38P | 4 AWG | 4 - 6 AWG |
| L4N-382 | 4 AWG | 4 - 6 AWG |
| L4N-382P | 4 AWG | 4 - 6 AWG |
| L4N | 4 AWG | 4 - 6 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts

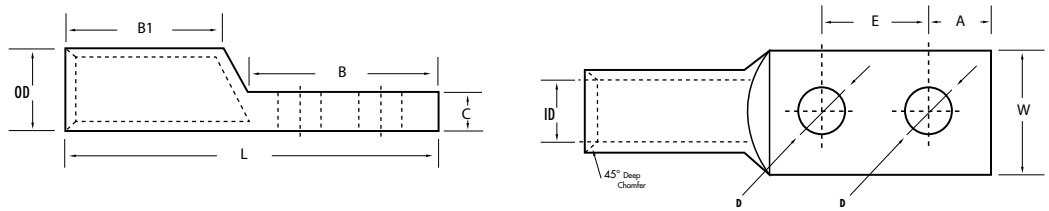




nsi INDUSTRIES



| COLOR | BOLT SIZE | MTG. HOLE SPACING (E) | I.D. | O.D. | LENGTH (L) | WIDTH (W) (IN.) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Red | 1/4" | 1.000 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 1.000 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 0.625 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 0.625 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 0.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 1/4" | 0.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Red | 3/8" | 1.000 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.410 | 100 |
| Red | 3/8" | 1.000 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.410 | 100 |
| Red | 3/8" | 1.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.410 | 100 |
| Red | 3/8" | 1.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.410 | 100 |
| Blue | 5/16" | 1.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.312 | 100 |
| Blue | 5/16" | 1.750 | 0.205 | 0.295 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.312 | 100 |
| Blue | 1/4″ | 0.500 | 0.200 | 0.300 | 2.240 | 0.420 | 0.280 | 1.140 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.625 | 0.200 | 0.300 | 2.360 | 0.420 | 0.280 | 1.260 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.625 | 0.200 | 0.300 | 2.360 | 0.420 | 0.280 | 1.260 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.625 | 0.200 | 0.300 | 2.480 | 0.420 | 1.260 | 1.380 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.625 | 0.200 | 0.300 | 2.480 | 0.420 | 1.260 | 1.380 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.750 | 0.200 | 0.300 | 2.480 | 0.420 | 0.280 | 1.380 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 1/4″ | 0.750 | 0.200 | 0.300 | 2.480 | 0.420 | 0.280 | 1.380 | 0.980 | 0.080 | 0.261 | 100 |
| Blue | 3/8″ | 1.000 | 0.200 | 0.300 | 2.910 | 0.420 | 0.380 | 1.810 | 0.980 | 0.080 | 0.410 | 100 |
| Blue | 3/8″ | 1.000 | 0.200 | 0.300 | 2.910 | 0.420 | 0.380 | 1.810 | 0.980 | 0.080 | 0.410 | 100 |
| Blue | 3/8" | 0.750 | 0.200 | 0.300 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.410 | 100 |
| Blue | 3/8" | 0.750 | 0.200 | 0.300 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.410 | 100 |
| Blue | 1/2″ | 1.750 | 0.200 | 0.300 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.510 | 100 |
| Blue | 1/2″ | 1.750 | 0.200 | 0.300 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.510 | 100 |
| Gray | 1/4″ | 0.625 | 0.250 | 0.340 | 2.360 | 0.490 | 0.280 | 1.260 | 0.980 | 0.090 | 0.261 | 100 |
| Gray | 1/4″ | 0.625 | 0.250 | 0.340 | 2.360 | 0.490 | 0.280 | 1.260 | 0.980 | 0.090 | 0.261 | 100 |
| Gray | 1/4″ | 0.625 | 0.250 | 0.340 | 2.95 | 0.420 | 0.380 | 1.810 | 0.980 | 0.90 | 0.261 | 100 |
| Gray | 1/4" | 0.625 | 0.250 | 0.340 | 2.950 | 0.420 | 0.380 | 1.810 | 0.980 | 0.090 | 0.261 | 100 |
| Gray | 1/4″ | 0.625 | 0.250 | 0.340 | 2.95 | 0.420 | 0.380 | 1.810 | 0.980 | 0.90 | 0.261 | 100 |
| Gray | 1/4" | 0.625 | 0.250 | 0.340 | 2.950 | 0.420 | 0.380 | 1.810 | 0.980 | 0.090 | 0.261 | 100 |
| Gray | 3/8″ | 1.000 | 0.250 | 0.340 | 2.950 | 0.420 | 0.380 | 1.810 | 0.980 | 0.090 | 0.410 | 100 |
| Gray | 3/8″ | 1.000 | 0.250 | 0.340 | 2.950 | 0.420 | 0.380 | 1.810 | 0.980 | 0.090 | 0.410 | 100 |
| Gray | 3/8" | 0.750 | 0.250 | 0.340 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.410 | 100 |
| Gray | 3/8" | 0.750 | 0.250 | 0.340 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.410 | 100 |
| Gray | 1/2″ | 1.750 | 0.250 | 0.340 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.510 | 100 |



COMPRESSION CONNECTORS

# Long Barrel Copper Lugs Two Hole

LN SERIES CONTINUED



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.
- Additional mounting hole spacing options available on request.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us LISTED 155027

SA 701642

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| L4N-P | 4 AWG | 4 - 6 AWG |
| L2N-14 | 2 AWG | 2 - 6 AWG |
| L2N-14P | 2 AWG | 2 - 6 AWG |
| L2N-141 | 2 AWG | 2 - 6 AWG |
| L2N-141P | 2 AWG | 2 - 6 AWG |
| L2N-142 | 2 AWG | 2 - 6 AWG |
| L2N-38 | 2 AWG | 2 - 6 AWG |
| L2N-38P | 2 AWG | 2 - 6 AWG |
| L2N-382 | 2 AWG | 2 - 6 AWG |
| L2N-382P | 2 AWG | 2 - 6 AWG |
| L2N-383 | 2 AWG | 2 - 6 AWG |
| L2N-383P | 2 AWG | 2 - 6 AWG |
| L2N-56 | 2 AWG | 2 - 6 AWG |
| L2N | 2 AWG | 2 - 6 AWG |
| L2N-P | 2 AWG | 2 - 6 AWG |
| L1N-141 | 1 AWG | 1 - 6 AWG |
| L1N-38 | 1 AWG | 1 - 6 AWG |
| L1N-56 | 1 AWG | 1 - 6 AWG |
| L1N | 1 AWG | 1 - 6 AWG |
| L10N-14 | 1/0 AWG | 1/0 - 6 AWG |
| L10N-14P | 1/0 AWG | 1/0 - 6 AWG |
| L10N-38 | 1/0 AWG | 1/0 - 6 AWG |
| L10N-38P | 1/0 AWG | 1/0 - 6 AWG |
| L10N-382 | 1/0 AWG | 1/0 - 6 AWG |
| L10N-382P | 1/0 AWG | 1/0 - 6 AWG |
| L10N-383 | 1/0 AWG | 1/0 - 6 AWG |
| L10N-383P | 1/0 AWG | 1/0 - 6 AWG |
| L10N | 1/0 AWG | 1/0 - 6 AWG |
| L10N-P | 1/0 AWG | 1/0 - 6 AWG |
| L20N-14 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-141 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-141P | 2/0 AWG | 2/0 - 4 AWG |
| L20N-142 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-14P | 2/0 AWG | 2/0 - 4 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts

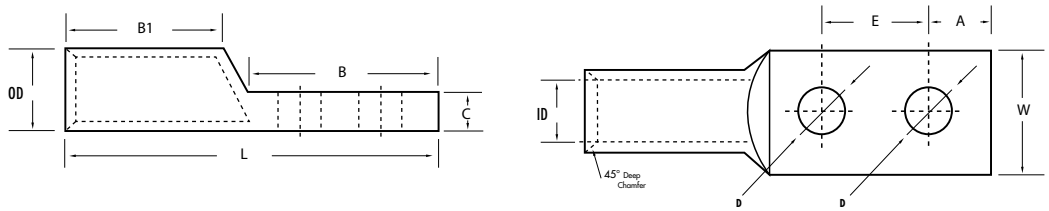




nsi INDUSTRIES



| COLOR | BOLT SIZE | MTG. HOLE SPACING (E) (IN.) | I.D. | O.D. | LENGTH (L) | WIDTH (W) (IN.) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (D) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gray | 1/2" | 1.750 | 0.250 | 0.340 | 4.090 | 0.870 | 0.620 | 2.990 | 0.980 | 0.120 | 0.510 | 100 |
| Brown | 1/4" | 1.000 | 0.310 | 0.420 | 2.520 | 0.600 | 0.280 | 1.260 | 1.100 | 0.100 | 0.252 | 50 |
| Brown | 1/4" | 1.000 | 0.310 | 0.420 | 2.520 | 0.600 | 0.280 | 1.260 | 1.100 | 0.100 | 0.252 | 50 |
| Brown | 1/4" | 0.625 | 0.310 | 0.420 | 2.520 | 0.600 | 0.280 | 1.260 | 1.100 | 0.100 | 0.250 | 50 |
| Brown | 1/4" | 0.625 | 0.310 | 0.420 | 2.520 | 0.600 | 0.280 | 1.260 | 1.100 | 0.100 | 0.250 | 50 |
| Brown | 1/4" | 0.750 | 0.310 | 0.420 | 2.640 | 0.600 | 0.280 | 1.380 | 1.100 | 0.100 | 0.250 | 50 |
| Brown | 3/8" | 1.000 | 0.310 | 0.420 | 3.070 | 0.600 | 0.380 | 1.810 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 1.000 | 0.310 | 0.420 | 3.070 | 0.600 | 0.380 | 1.810 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 0.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 0.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 1.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 3/8" | 1.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.410 | 50 |
| Brown | 5/16" | 0.750 | 0.310 | 0.420 | 2.870 | 0.600 | 0.320 | 1.610 | 1.100 | 0.100 | 0.330 | 50 |
| Brown | 1/2" | 1.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.510 | 50 |
| Brown | 1/2" | 1.750 | 0.310 | 0.420 | 4.250 | 0.810 | 0.620 | 2.990 | 1.100 | 0.100 | 0.510 | 50 |
| Green | 1/4" | 0.630 | 0.360 | 0.470 | 2.560 | 0.670 | 0.280 | 1.260 | 1.100 | 0.110 | 0.250 | 50 |
| Green | 3/8" | 1.000 | 0.360 | 0.470 | 3.070 | 0.670 | 0.380 | 1.810 | 1.100 | 0.110 | 0.410 | 50 |
| Green | 5/16" | 0.870 | 0.360 | 0.470 | 2.930 | 0.670 | 0.320 | 1.610 | 1.100 | 0.110 | 0.330 | 50 |
| Green | 1/2" | 1.750 | 0.360 | 0.470 | 4.290 | 0.750 | 0.620 | 2.990 | 1.100 | 0.100 | 0.510 | 50 |
| Pink | 1/4" | 1.000 | 0.390 | 0.520 | 3.210 | 0.740 | 0.380 | 1.810 | 1.200 | 0.130 | 0.252 | 50 |
| Pink | 1/4" | 1.000 | 0.390 | 0.520 | 3.210 | 0.740 | 0.380 | 1.810 | 1.200 | 0.130 | 0.252 | 50 |
| Pink | 3/8" | 1.000 | 0.390 | 0.520 | 3.210 | 0.740 | 0.380 | 1.810 | 1.200 | 0.130 | 0.410 | 50 |
| Pink | 3/8" | 1.000 | 0.390 | 0.520 | 3.210 | 0.740 | 0.380 | 1.810 | 1.200 | 0.130 | 0.410 | 50 |
| Pink | 3/8" | 0.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.410 | 50 |
| Pink | 3/8" | 0.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.410 | 50 |
| Pink | 3/8" | 1.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.410 | 50 |
| Pink | 3/8" | 1.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.410 | 50 |
| Pink | 1/2" | 1.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.510 | 50 |
| Pink | 1/2" | 1.750 | 0.390 | 0.520 | 4.630 | 0.740 | 0.620 | 2.990 | 1.200 | 0.120 | 0.510 | 50 |
| Black | 1/4" | 0.625 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.252 | 25 |
| Black | 1/4" | 0.625 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.252 | 25 |
| Black | 1/4" | 0.750 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.252 | 25 |
| Black | 1/4" | 0.750 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.250 | 25 |
| Black | 1/4" | 0.625 | 0.440 | 0.560 | 2.990 | 0.810 | 0.280 | 1.380 | 1.380 | 0.120 | 0.252 | 25 |



COMPRESSION CONNECTORS

# Long Barrel Copper Lugs Two Hole

LN SERIES CONTINUED



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.
- Additional mounting hole spacing options available on request.

NOTE: Part Numbers ending in "P" have a "peep" or sight inspection hole.

## RATINGS

c UL us LISTED 155027

SA 701642

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.
**RATING:**
600V

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE * |
|---|---|---|
| L20N-38 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-38P | 2/0 AWG | 2/0 - 4 AWG |
| L20N-383 | 2/0 AWG | 2/0 - 4 AWG |
| L20N-383P | 2/0 AWG | 2/0 - 4 AWG |
| L20N | 2/0 AWG | 2/0 - 4 AWG |
| L20NP | 2/0 AWG | 2/0 - 4 AWG |
| L30N-141 | 3/0 AWG | 3/0 - 2 AWG |
| L30N-141P | 3/0 AWG | 3/0 - 2 AWG |
| L30N-38 | 3/0 AWG | 3/0 - 2 AWG |
| L30N-38P | 3/0 AWG | 3/0 - 2 AWG |
| L30N-56 | 3/0 AWG | 3/0 - 2 AWG |
| L30N-56P | 3/0 AWG | 3/0 - 2 AWG |
| L30N | 3/0 AWG | 3/0 - 2 AWG |
| L30NP | 3/0 AWG | 3/0 - 2 AWG |
| L40N-141 | 4/0 AWG | 4/0 - 1 AWG |
| L40N-141P | 4/0 AWG | 4/0 - 1 AWG |
| L40N-142 | 4/0 AWG | 4/0 - 1 AWG |
| L40N-142P | 4/0 AWG | 4/0 - 1 AWG |
| L40N-38 | 4/0 AWG | 4/0 - 1 AWG |
| L40N-38P | 4/0 AWG | 4/0 - 1 AWG |
| L40N-383 | 4/0 AWG | 4/0 - 1 AWG |
| L40N-383P | 4/0 AWG | 4/0 - 1 AWG |
| L40N | 4/0 AWG | 4/0 - 1 AWG |
| L40NP | 4/0 AWG | 4/0 - 1 AWG |
| L250N | 250 MCM | 250 MCM - 1/0 AWG |
| L250N-38 | 250 MCM | 250 MCM - 1/0 AWG |
| L300N | 300 MCM | 300 MCM - 2/0 AWG |
| L350N | 350 MCM | 350 MCM - 3/0 AWG |
| L350N-38 | 350 MCM | 350 MCM - 3/0 AWG |
| L400N | 400 MCM | 400 MCM - 4/0 AWG |
| L500N | 500 MCM | 500 - 250 MCM |
| L500N-38 | 500 MCM | 500 - 250 MCM |
| L600N | 600 MCM | 600 - 250 MCM |
| L600N-38 | 600 MCM | 600 - 250 MCM |
| L750N | 750 MCM | 750 - 500 MCM |
| L750N-38 | 750 MCM | 750 - 500 MCM |
| L1000N | 1000 MCM | |

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts

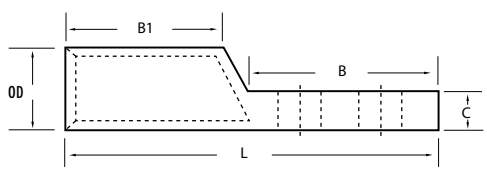


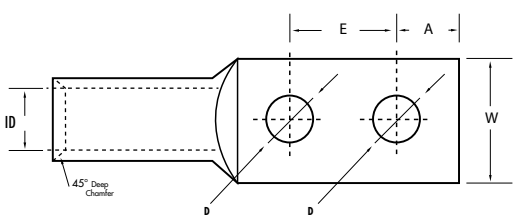


nsi INDUSTRIES



| COLOR | BOLT SIZE | MTG. HOLE SPACING (E) | I.D. | O.D. | LENGTH (L) | WIDTH (W) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Black | 3/8" | 1.000 | 0.440 | 0.560 | 3.430 | 0.810 | 0.380 | 1.810 | 1.380 | 0.120 | 0.410 | 25 |
| Black | 3/8" | 1.000 | 0.440 | 0.560 | 3.430 | 0.810 | 0.380 | 1.810 | 1.380 | 0.120 | 0.410 | 25 |
| Black | 3/8" | 1.750 | 0.440 | 0.560 | 3.430 | 0.810 | 0.380 | 1.810 | 1.380 | 0.120 | 0.410 | 25 |
| Black | 3/8" | 1.750 | 0.440 | 0.560 | 3.430 | 0.810 | 0.380 | 1.810 | 1.380 | 0.120 | 0.410 | 25 |
| Black | 1/2" | 1.750 | 0.440 | 0.560 | 4.610 | 0.810 | 0.620 | 2.990 | 1.380 | 0.120 | 0.510 | 25 |
| Black | 1/2" | 1.750 | 0.440 | 0.560 | 4.610 | 0.810 | 0.620 | 2.990 | 1.380 | 0.120 | 0.510 | 25 |
| Orange | 1/4" | 0.625 | 0.490 | 0.620 | 3.500 | 0.900 | 0.380 | 1.810 | 1.380 | 0.130 | 0.252 | 25 |
| Orange | 1/4" | 0.625 | 0.490 | 0.620 | 3.500 | 0.900 | 0.380 | 1.810 | 1.380 | 0.130 | 0.252 | 25 |
| Orange | 3/8" | 1.000 | 0.490 | 0.620 | 3.500 | 0.900 | 0.380 | 1.810 | 1.380 | 0.130 | 0.410 | 25 |
| Orange | 3/8" | 1.000 | 0.490 | 0.620 | 3.500 | 0.900 | 0.380 | 1.810 | 1.380 | 0.130 | 0.410 | 25 |
| Orange | 5/16" | 1.000 | 0.490 | 0.620 | 4.650 | 0.900 | 0.620 | 2.990 | 1.380 | 0.130 | 0.312 | 25 |
| Orange | 5/16" | 1.000 | 0.490 | 0.620 | 4.650 | 0.900 | 0.620 | 2.990 | 1.380 | 0.130 | 0.312 | 25 |
| Orange | 1/2" | 1.750 | 0.490 | 0.620 | 4.650 | 0.900 | 0.620 | 2.990 | 1.380 | 0.130 | 0.510 | 25 |
| Orange | 1/2" | 1.750 | 0.490 | 0.620 | 4.650 | 0.900 | 0.620 | 2.990 | 1.380 | 0.130 | 0.510 | 25 |
| Purple | 1/4" | 0.625 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.252 | 25 |
| Purple | 1/4" | 0.625 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.252 | 25 |
| Purple | 1/4" | 0.750 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.252 | 25 |
| Purple | 1/4" | 0.750 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.252 | 25 |
| Purple | 3/8" | 1.000 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.410 | 25 |
| Purple | 3/8" | 1.000 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.410 | 25 |
| Purple | 3/8" | 1.750 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.410 | 25 |
| Purple | 3/8" | 1.750 | 0.550 | 0.690 | 3.540 | 1.000 | 0.380 | 1.810 | 1.420 | 0.130 | 0.410 | 25 |
| Purple | 1/2" | 1.750 | 0.550 | 0.690 | 4.720 | 1.000 | 0.620 | 2.990 | 1.420 | 0.130 | 0.510 | 25 |
| Purple | 1/2" | 1.750 | 0.550 | 0.690 | 4.720 | 1.000 | 0.620 | 2.990 | 1.420 | 0.130 | 0.510 | 25 |
| Yellow | 1/2" | 1.750 | 0.590 | 0.750 | 4.960 | 1.090 | 0.620 | 2.990 | 1.610 | 0.150 | 0.510 | 25 |
| Yellow | 3/8" | 1.000 | 0.590 | 0.750 | 3.780 | 1.090 | 0.380 | 1.810 | 1.610 | 0.150 | 0.410 | 25 |
| White | 1/2" | 1.750 | 0.660 | 0.810 | 5.310 | 1.190 | 0.620 | 2.990 | 1.970 | 0.150 | 0.510 | 12 |
| Red | 1/2" | 1.750 | 0.700 | 0.870 | 5.390 | 1.280 | 0.620 | 2.990 | 1.970 | 0.170 | 0.510 | 12 |
| Red | 3/8" | 1.000 | 0.700 | 0.870 | 4.210 | 1.280 | 0.380 | 1.810 | 1.970 | 0.170 | 0.410 | 12 |
| Blue | 1/2" | 1.750 | 0.760 | 0.950 | 5.470 | 1.390 | 0.620 | 2.990 | 1.970 | 0.180 | 0.510 | 6 |
| Brown | 1/2" | 1.750 | 0.840 | 1.060 | 5.750 | 1.540 | 0.620 | 2.990 | 2.240 | 0.220 | 0.510 | 6 |
| Brown | 3/8" | 1.000 | 0.840 | 1.060 | 4.570 | 1.540 | 0.380 | 1.810 | 2.240 | 0.220 | 0.410 | 6 |
| Green | 1/2" | 1.750 | 0.930 | 1.190 | 5.790 | 1.720 | 0.620 | 2.990 | 2.240 | 0.250 | 0.510 | 6 |
| Green | 3/8" | 1.000 | 0.930 | 1.190 | 4.610 | 1.720 | 0.380 | 1.810 | 2.240 | 0.250 | 0.410 | 6 |
| Black | 1/2" | 1.750 | 1.040 | 1.310 | 6.300 | 1.900 | 0.620 | 2.990 | 2.640 | 0.270 | 0.510 | 3 |
| Black | 3/8" | 1.000 | 1.040 | 1.310 | 5.120 | 1.900 | 0.380 | 1.810 | 2.640 | 0.270 | 0.410 | 3 |
| White | 1/2" | 1.750 | 1.150 | 1.500 | 7.125 | 2.160 | 0.630 | 3.060 | 3.160 | 0.340 | 0.510 | 3 |



COMPRESSION CONNECTORS

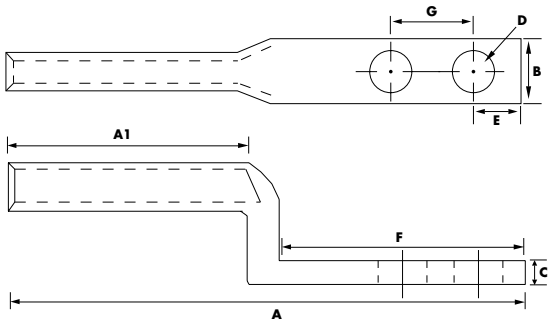
# Long Barrel Stacking Copper Lugs

SL-N SERIES



## FEATURES

- Designed for use with the L-N Series.
- Produced from high conductivity copper tubing for heavy duty applications.
- Tin-Plated to provide corrosion resistance.
- Marked with die index and color coded.
- Additional hole spacing options available on request.
- For use with LN Series.




## RATINGS

c UL us

**TEMPERATURE RATING:**
90 °C.

**RATING:**
600V.

Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.

* CLASS B OR C BUILDING WIRE CU CABLE ONLY

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE | MTG. HOLE SPACING (G) | LENGTH (A) | WIDTH (B) | END CONN. TO CTR. (E) | TANG LENGTH (F) | BARREL LENGTH (A1) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **SL40N** | 4/0 AWG | 4/0 - 1 AWG | Purple | 0.500 | 1.750 | 5.188 | 1.500 | 0.625 | 3.000 | 1.625 | 25 |
| **SL250N** | 250 MCM | 250 MCM - 1/0 AWG | Yellow | 0.500 | 1.750 | 5.438 | 1.125 | 0.625 | 3.000 | 1.688 | 25 |
| **SL300N** | 300 MCM | 300-2/0 AWG | White | 0.500 | 1.750 | 5.580 | 1.083 | 0.625 | 3.000 | 1.715 | 25 |
| **SL350N** | 350 MCM | 350 MCM - 3/0 AWG | Red | 0.500 | 1.750 | 5.750 | 1.938 | 0.625 | 3.000 | 1.875 | 25 |
| **SL500N** | 500 MCM | 500 - 250 MCM | Brown | 0.500 | 1.750 | 6.063 | 1.563 | 0.625 | 3.125 | 2.250 | 6 |
| **SL600N** | 600 MCM | 600 - 250 MCM | Green | 0.500 | 1.750 | 6.750 | 1.688 | 0.625 | 3.125 | 2.625 | 6 |
| **SL750N** | 750 MCM | 750 - 500 MCM | Black | 0.500 | 1.750 | 6.800 | 1.758 | 0.660 | 2.980 | 2.957 | 3 |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts





nsi INDUSTRIES

COMPRESSION CONNECTORS

# Stacking Adapters for Compression Terminals

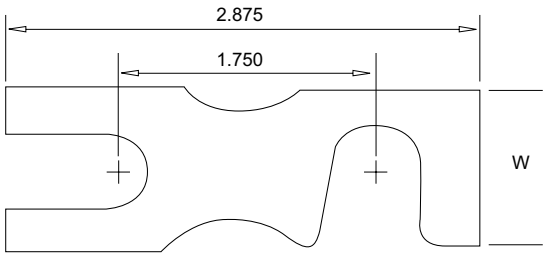
SA SERIES





## FEATURES

- Tin-plated pure aluminum for good conductivity and corrosion resistance.
- Allows for stacking of standard two hole compression lugs and keeps inventories to a minimum.
- To stack 4-hole NECA drilled terminals, use two adapters assembled in parallel.




## RATINGS

**RATING:**
600V.

| CAT. NO. | HEIGHT | CONNECTOR SIZE RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **SA10-400** | 0.875 | 1/0-400 MCM | 10 |
| **SA500-1000** | 1.125 | 500-1000 MCM | 6 |

COMPRESSION CONNECTORS

# Short Barrel Copper Lugs One Hole With Peep Hole

GL SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **GL810** | 8 AWG | 8 AWG |
| **GL814** | 8 AWG | 8 AWG |
| **GL838** | | |
| **GL856** | 8 AWG | 8 AWG |
| **GL614** | 6 AWG | 6 - 8 AWG |
| **GL656** | 6 AWG | 6 - 8 AWG |
| **GL638** | 6 AWG | 6 - 8 AWG |
| **GL414** | 4 AWG | 4 - 6 AWG |
| **GL456** | 4 AWG | 4 - 6 AWG |
| **GL438** | 4 AWG | 4 - 6 AWG |
| **GL338** | 3 AWG | 3 - 6 AWG |
| **GL214** | 2 AWG | 2 - 6 AWG |
| **GL256** | 2 AWG | 2 - 6 AWG |
| **GL238** | 2 AWG | 2 - 6 AWG |
| **GL114** | 1 AWG | 1 - 6 AWG |
| **GL156** | 1 AWG | 1 - 6 AWG |
| **GL138** | 1 AWG | 1 - 6 AWG |
| **GL1056** | 1/0 AWG | 1/0 - 6 AWG |
| **GL1038** | 1/0 AWG | 1/0 - 6 AWG |
| **GL1048** | 1/0 AWG | 1/0 - 6 AWG |
| **GL2056** | 2/0 AWG | 2/0 - 4 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

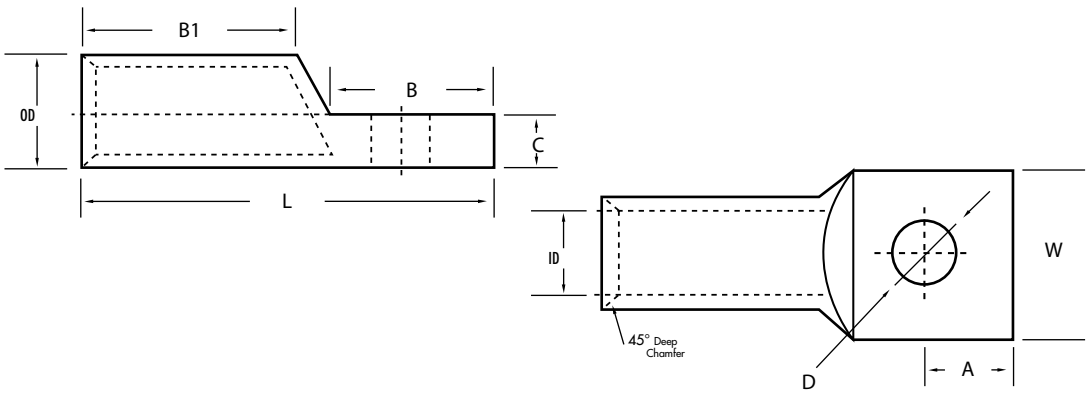




nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | I.D. | O.D. | LENGTH (L) | WIDTH (W) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Red | #10 | 0.173 | 0.272 | 1.201 | 0.421 | 0.276 | 0.591 | 0.441 | 0.079 | 0.209 | 100 |
| Red | 1/4 | 0.173 | 0.272 | 1.201 | 0.421 | 0.276 | 0.591 | 0.441 | 0.079 | 0.252 | 100 |
| | | | | | | | | | | | |
| Red | 5/16 | 0.173 | 0.272 | 1.201 | 0.421 | 0.276 | 0.591 | 0.441 | 0.079 | 0.330 | 100 |
| Blue | 1/4 | 0.205 | 0.295 | 1.496 | 0.421 | 0.295 | 0.669 | 0.709 | 0.083 | 0.252 | 100 |
| Blue | 5/16 | 0.205 | 0.295 | 1.496 | 0.488 | 0.295 | 0.669 | 0.709 | 0.067 | 0.331 | 100 |
| Blue | 3/8 | 0.205 | 0.295 | 1.496 | 0.488 | 0.295 | 0.669 | 0.709 | 0.067 | 0.410 | 100 |
| Gray | 1/4 | 0.252 | 0.343 | 1.496 | 0.488 | 0.315 | 0.669 | 0.709 | 0.079 | 0.252 | 100 |
| Gray | 5/16 | 0.252 | 0.343 | 1.496 | 0.488 | 0.315 | 0.669 | 0.709 | 0.079 | 0.331 | 100 |
| Gray | 3/8 | 0.252 | 0.343 | 1.496 | 0.559 | 0.315 | 0.669 | 0.709 | 0.079 | 0.413 | 100 |
| White | 3/8 | 0.277 | 0.372 | 1.984 | 0.594 | 0.375 | 0.875 | 0.885 | 0.086 | 0.399 | 50 |
| Brown | 1/4 | 0.315 | 0.421 | 1.795 | 0.602 | 0.370 | 0.811 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 5/16 | 0.315 | 0.421 | 1.795 | 0.602 | 0.370 | 0.811 | 0.827 | 0.102 | 0.331 | 50 |
| Brown | 3/8 | 0.315 | 0.421 | 1.795 | 0.602 | 0.370 | 0.811 | 0.827 | 0.102 | 0.413 | 50 |
| Green | 1/4 | 0.358 | 0.469 | 1.835 | 0.673 | 0.370 | 0.811 | 0.827 | 0.106 | 0.252 | 50 |
| Green | 5/16 | 0.358 | 0.469 | 1.835 | 0.673 | 0.370 | 0.811 | 0.827 | 0.106 | 0.331 | 50 |
| Green | 3/8 | 0.358 | 0.469 | 1.835 | 0.673 | 0.394 | 0.811 | 0.827 | 0.106 | 0.413 | 50 |
| Pink | 5/16 | 0.390 | 0.520 | 1.835 | 0.744 | 0.370 | 0.811 | 0.827 | 0.126 | 0.331 | 50 |
| Pink | 3/8 | 0.390 | 0.520 | 1.835 | 0.744 | 0.370 | 0.811 | 0.827 | 0.126 | 0.413 | 50 |
| Pink | 1/2 | 0.390 | 0.520 | 1.835 | 0.744 | 0.370 | 0.811 | 0.827 | 0.126 | 0.512 | 50 |
| Black | 5/16 | 0.441 | 0.563 | 2.244 | 0.815 | 0.472 | 1.063 | 0.945 | 0.118 | 0.331 | 25 |



COMPRESSION CONNECTORS

# Short Barrel Copper Lugs One Hole With Peep Hole

GL SERIES CONTINUED



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **GL2038** | 2/0 AWG | 2/0 - 4 AWG |
| **GL2048** | 2/0 AWG | 2/0 - 4 AWG |
| **GL3038** | 3/0 AWG | 3/0 - 2 AWG |
| **GL3048** | 3/0 AWG | 3/0 - 2 AWG |
| **GL4038** | 4/0 AWG | 4/0 - 1 AWG |
| **GL4048** | 4/0 AWG | 4/0 - 1 AWG |
| **GL25038** | 250 MCM | 250 MCM - 1/0 AWG |
| **GL25048** | 250 MCM | 250 MCM - 1/0 AWG |
| **GL30048** | 300 MCM | 300 MCM - 2/0 AWG |
| **GL35038** | 350 MCM | 350 MCM - 3/0 AWG |
| **GL35048** | 350 MCM | 350 MCM - 3/0 AWG |
| **GL40048** | 400 MCM | 400 MCM - 4/0 AWG |
| **GL50048** | 500 MCM | 500 - 250 MCM |
| **GL50058** | 500 MCM | 500 - 250 MCM |
| **GL60048** | 600 MCM | 600 - 250 MCM |
| **GL60058** | 600 MCM | 600 - 250 MCM |
| **GL75048** | 750 MCM | 750 - 500 MCM |
| **GL75058** | 750 MCM | 750 - 500 MCM |
| **GL10058** | 1000 MCM | |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

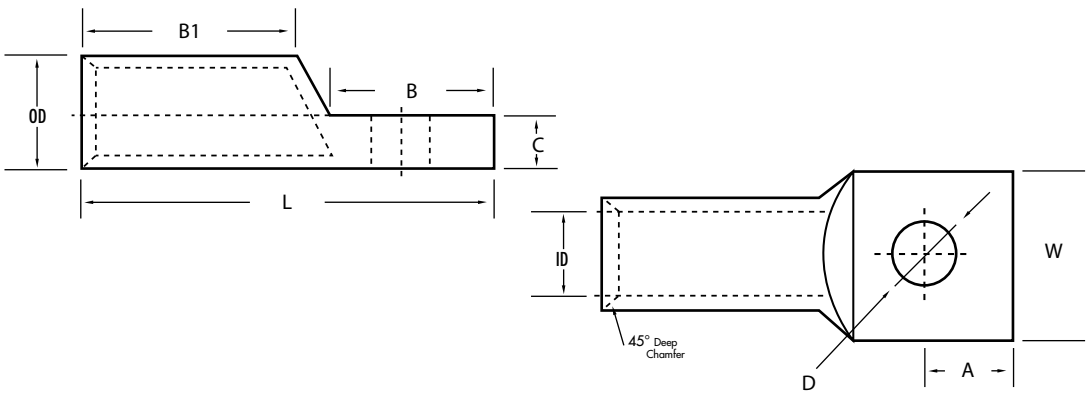




nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | I.D. | O.D. | LENGTH (L) | WIDTH (W) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Black | 3/8 | 0.441 | 0.563 | 2.244 | 0.815 | 0.472 | 1.063 | 0.945 | 0.118 | 0.413 | 25 |
| Black | 1/2 | 0.441 | 0.563 | 2.244 | 0.815 | 0.472 | 1.063 | 0.945 | 0.118 | 0.512 | 25 |
| Orange | 3/8 | 0.492 | 0.622 | 2.362 | 0.902 | 0.472 | 1.063 | 0.984 | 0.126 | 0.413 | 25 |
| Orange | 1/2 | 0.492 | 0.622 | 2.362 | 0.902 | 0.472 | 1.063 | 0.984 | 0.126 | 0.512 | 25 |
| Purple | 3/8 | 0.547 | 0.689 | 2.362 | 1.000 | 0.472 | 1.063 | 0.984 | 0.134 | 0.413 | 25 |
| Purple | 1/2 | 0.547 | 0.689 | 2.362 | 1.000 | 0.472 | 1.063 | 0.984 | 0.134 | 0.512 | 25 |
| Yellow | 3/8 | 0.594 | 0.752 | 2.480 | 1.091 | 0.472 | 1.063 | 1.063 | 0.150 | 0.413 | 25 |
| Yellow | 1/2 | 0.594 | 0.752 | 2.480 | 1.091 | 0.472 | 1.063 | 1.063 | 0.150 | 0.512 | 25 |
| White | 1/2 | 0.657 | 0.815 | 2.480 | 1.189 | 0.520 | 1.063 | 1.063 | 0.150 | 0.512 | 12 |
| Red | 3/8 | 0.692 | 0.875 | 1.625 | 1.281 | 0.395 | 0.875 | 1.112 | 0.173 | 0.391 | 12 |
| Red | 1/2 | 0.701 | 0.874 | 2.606 | 1.276 | 0.520 | 1.063 | 1.102 | 0.165 | 0.512 | 12 |
| Blue | 1/2 | 0.764 | 0.949 | 3.079 | 1.386 | 0.520 | 1.378 | 1.181 | 0.177 | 0.512 | 6 |
| Brown | 1/2 | 0.835 | 1.063 | 3.276 | 1.539 | 0.520 | 1.378 | 1.378 | 0.217 | 0.512 | 6 |
| Brown | 5/8 | 0.835 | 1.063 | 3.276 | 1.539 | 0.520 | 1.378 | 1.378 | 0.217 | 0.669 | 6 |
| Green | 1/2 | 0.925 | 1.189 | 3.504 | 1.717 | 0.520 | 1.457 | 1.496 | 0.252 | 0.512 | 6 |
| Green | 5/8 | 0.925 | 1.189 | 3.504 | 1.717 | 0.689 | 1.457 | 1.496 | 0.252 | 0.669 | 6 |
| Black | 1/2 | 1.022 | 1.295 | 3.866 | 1.760 | 0.685 | 1.550 | 1.743 | 0.277 | 0.541 | 3 |
| Black | 5/8 | 1.031 | 1.311 | 4.370 | 1.902 | 0.689 | 1.850 | 1.850 | 0.268 | 0.669 | 3 |
| White | 5/8 | 1.158 | 1.491 | 4.085 | 2.151 | 0.730 | 1.675 | 1.789 | 0.327 | 0.669 | 3 |



COMPRESSION CONNECTORS

# Short Barrel Copper Lugs Two Hole With Peep

GL-N SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer for voltage stress relief instructions.

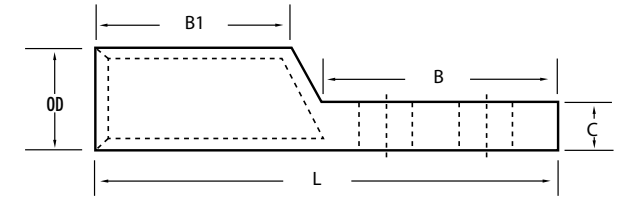
Note: Part numbers ending in "X" have no peep hole.

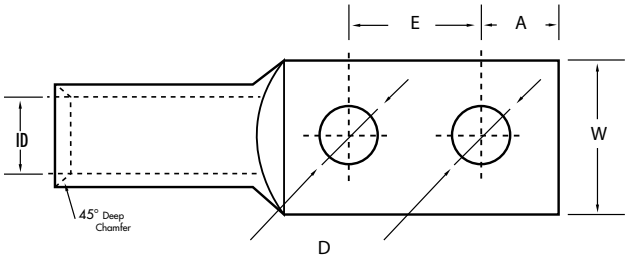
## RATINGS

c UL us
LISTED
155027

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY




All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| GL6N-141 | 6 AWG | 6 - 8 AWG |
| GL6N-141X | 6 AWG | 6 - 8 AWG |
| GL6N-143 | 6 AWG | 6 - 8 AWG |
| GL6N-38 | 6 AWG | 6 - 8 AWG |
| GL4N-141 | 4 AWG | 4 - 6 AWG |
| GL4N-38 | 4 AWG | 4 - 6 AWG |
| GL2N-141 | 2 AWG | 2 - 6 AWG |
| GL2N-141X | 2 AWG | 2 - 6 AWG |
| GL2N-142 | 2 AWG | 2 - 6 AWG |
| GL2N-143 | 2 AWG | 2 - 6 AWG |
| GL2N-38 | 2 AWG | 2 - 6 AWG |
| GL2N-38X | 2 AWG | 2 - 6 AWG |
| GL1N-38 | 1 AWG | 1 - 6 AWG |
| GL10N-38 | 1/0 AWG | 1/0 - 6 AWG |
| GL10N-38X | 1/0 AWG | 1/0 - 6 AWG |
| GL20N | 2/0 AWG | 2/0 - 4 AWG |
| GL20N-38 | 2/0 AWG | 2/0 - 4 AWG |
| GL30N | 3/0 AWG | 3/0 - 2 AWG |
| GL30N-38 | 3/0 AWG | 3/0 - 2 AWG |
| GL40N | 4/0 AWG | 4/0 - 1 AWG |
| GL40N-38 | 4/0 AWG | 4/0 - 1 AWG |
| GL250N | 250 MCM | 250 MCM - 1/0 AWG |
| GL250N-38 | 250 MCM | 250 MCM - 1/0 AWG |
| GL350N | 350 MCM | 350 MCM - 3/0 AWG |
| GL350N-38 | 350 MCM | 350 MCM - 3/0 AWG |
| GL400N | 400 MCM | 400 MCM - 4/0 AWG |
| GL500N | 500 MCM | 500 - 250 MCM |
| GL500N-38 | 500 MCM | 500 - 250 MCM |
| GL600N | 600 MCM | 600 - 250 MCM |
| GL750N | 750 MCM | 750 - 500 MCM |
| GL1000N | 1000 MCM | |

*EXPANDED WIRE RANGE when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143

Scan QR to view Tool & Die Charts





nsi INDUSTRIES



| COLOR CODE | BOLT SIZE | MTG. HOLE SPACING (E) | I.D. | O.D. | LENGTH (L) | WIDTH (W) | END OF CONN TO CTR. (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blue | 1/4 | 0.625 | 0.205 | 0.295 | 2.087 | 0.421 | 0.280 | 1.260 | 0.709 | 0.083 | 0.252 | 100 |
| Blue | 1/4 | 0.625 | 0.205 | 0.295 | 2.087 | 0.421 | 0.280 | 1.260 | 0.709 | 0.083 | 0.252 | 100 |
| Blue | 1/4 | 1.000 | 0.205 | 0.295 | 2.638 | 0.421 | 0.280 | 1.811 | 0.709 | 0.083 | 0.252 | 100 |
| Blue | 3/8 | 1.000 | 0.205 | 0.295 | 2.638 | 0.488 | 0.382 | 1.811 | 0.709 | 0.087 | 0.413 | 100 |
| Gray | 1/4 | 0.625 | 0.252 | 0.343 | 2.087 | 0.488 | 0.280 | 1.260 | 0.709 | 0.087 | 0.252 | 100 |
| Gray | 3/8 | 1.000 | 0.252 | 0.343 | 2.677 | 0.488 | 0.382 | 1.811 | 0.748 | 0.087 | 0.413 | 100 |
| Brown | 1/4 | 0.625 | 0.315 | 0.421 | 2.283 | 0.602 | 0.280 | 1.260 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 1/4 | 0.625 | 0.315 | 0.421 | 2.283 | 0.602 | 0.280 | 1.260 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 1/4 | 0.750 | 0.315 | 0.421 | 2.362 | 0.602 | 0.280 | 1.378 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 1/4 | 1.000 | 0.315 | 0.421 | 2.795 | 0.602 | 0.280 | 1.811 | 0.827 | 0.102 | 0.252 | 50 |
| Brown | 3/8 | 1.000 | 0.315 | 0.421 | 2.835 | 0.602 | 0.280 | 1.811 | 0.827 | 0.102 | 0.413 | 50 |
| Brown | 3/8 | 1.000 | 0.315 | 0.421 | 2.835 | 0.602 | 0.280 | 1.811 | 0.827 | 0.102 | 0.413 | 50 |
| Green | 3/8 | 1.000 | 0.350 | 0.463 | 3.024 | 0.672 | 0.345 | 1.842 | 0.955 | 0.106 | 0.404 | 50 |
| Pink | 3/8 | 1.000 | 0.390 | 0.520 | 2.835 | 0.744 | 0.382 | 1.811 | 0.827 | 0.126 | 0.413 | 50 |
| Pink | 3/8 | 1.000 | 0.390 | 0.520 | 2.835 | 0.744 | 0.382 | 1.811 | 0.827 | 0.126 | 0.413 | 50 |
| Black | 1/2 | 1.750 | 0.441 | 0.563 | 4.173 | 0.815 | 0.618 | 2.992 | 0.945 | 0.118 | 0.512 | 25 |
| Black | 3/8 | 1.000 | 0.441 | 0.563 | 2.992 | 0.815 | 0.382 | 1.811 | 0.945 | 0.118 | 0.413 | 25 |
| Orange | 1/2 | 1.750 | 0.492 | 0.622 | 4.291 | 0.902 | 0.618 | 2.992 | 0.984 | 0.126 | 0.512 | 25 |
| Orange | 3/8 | 1.000 | 0.492 | 0.622 | 3.110 | 0.902 | 0.382 | 1.811 | 0.984 | 0.126 | 0.413 | 25 |
| Purple | 1/2 | 1.750 | 0.547 | 0.689 | 4.291 | 1.000 | 0.618 | 2.992 | 0.984 | 0.134 | 0.512 | 25 |
| Purple | 3/8 | 1.000 | 0.547 | 0.689 | 3.110 | 1.000 | 0.382 | 1.811 | 0.984 | 0.134 | 0.413 | 25 |
| Yellow | 1/2 | 1.750 | 0.594 | 0.752 | 4.409 | 1.091 | 0.618 | 2.992 | 1.063 | 0.150 | 0.512 | 25 |
| Yellow | 3/8 | 1.000 | 0.594 | 0.752 | 3.228 | 1.091 | 0.382 | 1.811 | 1.063 | 0.150 | 0.413 | 25 |
| Red | 1/2 | 1.750 | 0.701 | 0.874 | 4.528 | 1.276 | 0.618 | 2.992 | 1.102 | 0.165 | 0.512 | 12 |
| Red | 3/8 | 1.000 | 0.701 | 0.874 | 3.346 | 1.276 | 0.382 | 1.811 | 1.102 | 0.165 | 0.413 | 12 |
| Blue | 1/2 | 1.750 | 0.764 | 0.949 | 4.685 | 1.386 | 0.618 | 2.992 | 1.181 | 0.177 | 0.512 | 6 |
| Brown | 1/2 | 1.750 | 0.839 | 1.063 | 4.882 | 1.539 | 0.618 | 2.992 | 1.378 | 0.217 | 0.512 | 6 |
| Brown | 3/8 | 1.000 | 0.839 | 1.063 | 3.701 | 1.539 | 0.382 | 1.811 | 1.378 | 0.217 | 0.413 | 6 |
| Green | 1/2 | 1.750 | 0.925 | 1.189 | 5.039 | 1.717 | 0.618 | 2.992 | 1.496 | 0.252 | 0.512 | 6 |
| Black | 1/2 | 1.750 | 1.043 | 1.311 | 5.512 | 1.902 | 0.618 | 2.992 | 1.850 | 0.268 | 0.512 | 3 |
| White | 1/2 | 1.750 | 1.173 | 1.492 | 5.870 | 2.158 | 0.620 | 3.436 | 1.910 | 0.331 | 0.544 | 1 |

COMPRESSION CONNECTORS

# Copper Splice Short Barrel

SC SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Serrations indicate proper crimp locations.
- Tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Suitable for use at voltages up to 35KV provided connector is properly taped.
- 5KV is the maximum voltage in all bare splices.
- For applications greater than 2000V, consult the cable manufacturer for voltage stress relief instructions.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| SC-8 | 8 AWG | 8 AWG |
| SC-6 | 6 AWG | 6 - 8 AWG |
| SC-4 | 4 AWG | 4 - 6 AWG |
| SC-3 | 3 AWG | 3 - 6 AWG |
| SC-2 | 2 AWG | 2 - 6 AWG |
| SC-1 | 1 AWG | 1 - 6 AWG |
| SC-1/0 | 1/0 AWG | 1/0 - 6 AWG |
| SC-2/0 | 2/0 AWG | 2/0 - 4 AWG |
| SC-3/0 | 3/0 AWG | 3/0 - 2 AWG |
| SC-4/0 | 4/0 AWG | 4/0 - 1 AWG |
| SC-250 | 250 MCM | 250 MCM - 1/0 AWG |
| SC-300 | 300 MCM | 300 MCM - 2/0 AWG |
| SC-350 | 350 MCM | 350 MCM - 3/0 AWG |
| SC-400 | 400 MCM | 400 MCM - 4/0 AWG |
| SC-500 | 500 MCM | 500 - 250 MCM |
| SC-600 | 600 MCM | 600 - 250 MCM |
| SC-750 | 750 MCM | 750-500 MCM |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

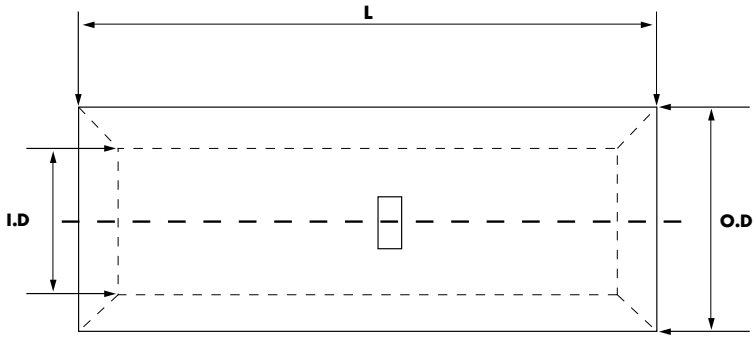




nsi INDUSTRIES



| COLOR CODE | I.D. | O.D. | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|---|
| Red | 0.173 | 0.272 | 0.902 | 100 |
| Blue | 0.205 | 0.295 | 1.000 | 100 |
| Gray | 0.252 | 0.343 | 1.000 | 100 |
| White | 0.282 | 0.378 | 1.883 | 50 |
| Brown | 0.315 | 0.421 | 1.252 | 50 |
| Green | 0.358 | 0.469 | 1.799 | 50 |
| Pink | 0.390 | 0.520 | 1.598 | 50 |
| Black | 0.441 | 0.563 | 1.752 | 25 |
| Orange | 0.492 | 0.622 | 1.752 | 25 |
| Purple | 0.547 | 0.689 | 1.902 | 25 |
| Yellow | 0.594 | 0.752 | 2.000 | 25 |
| White | 0.657 | 0.815 | 2.098 | 12 |
| Red | 0.701 | 0.874 | 2.098 | 12 |
| Blue | 0.764 | 0.949 | 2.299 | 6 |
| Brown | 0.835 | 1.063 | 2.500 | 6 |
| Green | 1.189 | 1.189 | 2.500 | 6 |
| Black | 1.031 | 1.311 | 3.201 | 3 |



COMPRESSION CONNECTORS

# Copper Splice Long Barrel

C SERIES



## FEATURES

- Produced from high conductivity copper tubing.
- Serrations indicate proper crimp locations.
- Tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Suitable for use at voltages up to 35KV provided connector is properly taped.
- 5KV is the maximum voltage in all bare splices.
- For applications greater than 2000V, consult the cable manufacturer for voltage stress relief instructions.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG)
Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| C-8 | 8 AWG | 8 AWG |
| C-6 | 6 AWG | 6 - 8 AWG |
| C-4 | 4 AWG | 4 - 6 AWG |
| C-3 | 3 AWG | 3 - 6 AWG |
| C-2 | 2 AWG | 2 - 6 AWG |
| C-1 | 1 AWG | 1 - 6 AWG |
| C-1/0 | 1/0 AWG | 1/0 - 6 AWG |
| C-2/0 | 2/0 AWG | 2/0 - 4 AWG |
| C-3/0 | 3/0 AWG | 3/0 - 2 AWG |
| C-4/0 | 4/0 AWG | 4/0 - 1 AWG |
| C-250 | 250 MCM | 250 MCM - 1/0 AWG |
| C-300 | 300 MCM | 300 MCM - 2/0 AWG |
| C-350 | 350 MCM | 350 MCM - 3/0 AWG |
| C-400 | 400 MCM | 400 MCM - 4/0 AWG |
| C-500 | 500 MCM | 500 - 250 MCM |
| C-600 | 600 MCM | 600 - 250 MCM |
| C-750 | 750 MCM | 750-500 MCM |
| C-1000 | 1000 MCM | 1000-750 MCM |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

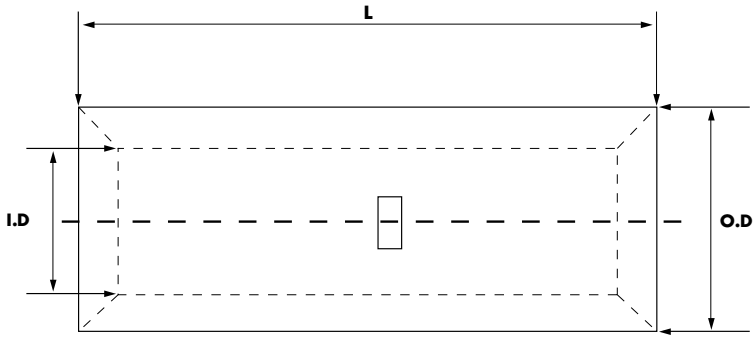




nsi INDUSTRIES



| COLOR CODE INDEX | I.D. | O.D. | LENGTH (L) (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| Red | 0.173 | 0.272 | 1.752 | 100 |
| Blue | 0.205 | 0.295 | 1.752 | 100 |
| Gray | 0.252 | 0.343 | 1.752 | 100 |
| White | 0.282 | 0.378 | 2.381 | 50 |
| Brown | 0.315 | 0.421 | 1.902 | 50 |
| Green | 0.358 | 0.469 | 2.201 | 50 |
| Pink | 0.390 | 0.520 | 2.201 | 50 |
| Black | 0.441 | 0.563 | 2.252 | 25 |
| Orange | 0.492 | 0.622 | 2.252 | 25 |
| Purple | 0.547 | 0.689 | 2.752 | 25 |
| Yellow | 0.594 | 0.752 | 3.252 | 25 |
| White | 0.657 | 0.815 | 3.504 | 12 |
| Red | 0.701 | 0.874 | 3.752 | 12 |
| Blue | 0.764 | 0.949 | 3.752 | 6 |
| Brown | 0.835 | 1.063 | 4.252 | 6 |
| Green | 1.189 | 1.189 | 4.500 | 6 |
| Black | 1.031 | 1.311 | 4.752 | 3 |
| White | 1.189 | 1.527 | 6.122 | 3 |



COMPRESSION CONNECTORS

# For Flexible Copper Cable – One Hole Short Barrel (Peep Hole)

GL-B SERIES



## FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **GL214B** | 2 AWG | 2 - 6 AWG |
| **GL256B** | 2 AWG | 2 - 6 AWG |
| **GL156B** | 1 AWG | 1 - 6 AWG |
| **GL1056B** | 1/0 AWG | 1/0 - 6 AWG |
| **GL2038B** | 2/0 AWG | 2/0 - 4 AWG |
| **GL3038B** | 3/0 AWG | 3/0 - 2 AWG |
| **GL3048B** | 3/0 AWG | 3/0 - 2 AWG |
| **GL4048B** | 4/0 AWG | 4/0 - 1 AWG |
| **GL25038B** | 250 MCM | 250 MCM - 1/0 AWG |
| **GL25048B** | 250 MCM | 250 MCM - 1/0 AWG |
| **GL30048B** | 300 MCM | 300 MCM - 2/0 AWG |
| **GL35058B** | 350 MCM | 350 MCM - 3/0 AWG |
| **GL50058B** | 400 MCM | 400 MCM - 4/0 AWG |
| **GL60058B** | 500 MCM | 500 - 250 MCM |
| **GL70058B** | 600 MCM | 600 - 250 MCM |
| **GL75058B** | 750 MCM | 750-500 MCM |
| **GL10058B** | 1000 MCM | 1000-500 MCM |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

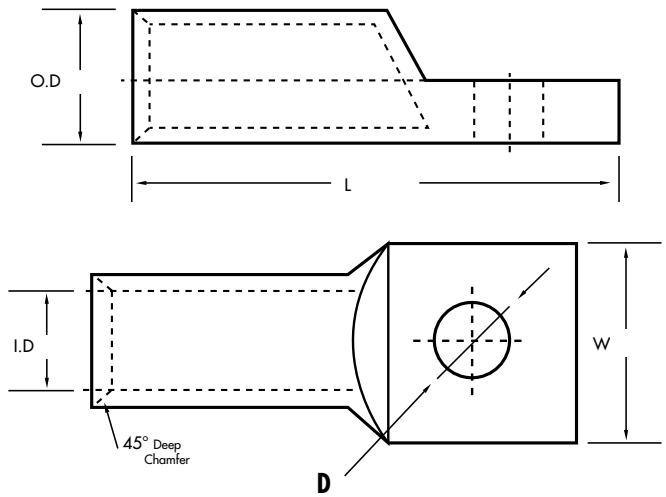




nsi INDUSTRIES



| COLOR CODE | COMM | CABLE SIZE ASTM CLASS H | CABLE SIZE WELDING CLASS M | CABLE SIZE DIESEL LOCOMOTIVE | BOLT SIZE (D) | I.D. | O.D. | LENGTH (L) | WIDTH (W) |
|---|---|---|---|---|---|---|---|---|---|
| Brown | 2 | 4 | 4 | (125) | 1/4 | 0.315 | 0.421 | 1.800 | 0.600 |
| Brown | 2 | 4 | 4 | (125) | 5/16 | 0.315 | 0.421 | 1.800 | 0.600 |
| Green | 1 | 2 | 2 | (150) | 5/16 | 0.358 | 0.469 | 1.830 | 0.670 |
| Pink | 1/0 | 1 | 1 | (225) | 5/16 | 0.390 | 0.520 | 1.830 | 0.740 |
| Black | 2/0 | 1/0 | 1/0 | 1/0 (275) | 3/8 | 0.441 | 0.563 | 2.240 | 0.810 |
| Orange | 3/0 | 2/0 | - | 2/0 (325) | 3/8 | 0.492 | 0.622 | 2.360 | 0.900 |
| Orange | 3/0 | 2/0 | - | 2/0 (325) | 1/2 | 0.492 | 0.622 | 2.360 | 0.900 |
| Purple | 4/0 | 3/0 | 2/0 | 3/0 (450) | 1/2 | 0.547 | 0.689 | 2.360 | 1.000 |
| Yellow | 250 | - | 3/0 | 4/0 (550) | 3/8 | 0.594 | 0.752 | 2.480 | 1.090 |
| Yellow | 250 | - | 3/0 | 4/0 (550) | 1/2 | 0.594 | 0.752 | 2.480 | 1.090 |
| White | 300 | 4/0 | 4/0 | 262.6 | 1/2 | 0.657 | 0.815 | 2.490 | 1.190 |
| Red | 350 | 250 | 250 | 313.1 | 5/8 | 0.692 | 0.875 | 2.910 | 1.280 |
| Brown | 500 | 350 | 300 | 373.3 | 5/8 | 0.835 | 1.063 | 3.280 | 1.540 |
| Green | 600 | 400 | 350 | 444.4 | 5/8 | 0.925 | 1.189 | 3.500 | 1.720 |
| Pink | 700 | 500 | 400 | 535.3 | 5/8 | 1.031 | 1.311 | | |
| Black | 750 | 600 | 500 | - | 5/8 | 1.031 | 1.311 | 4.370 | 1.950 |
| White | 1000 | 800 | 700 | 777.7 | 5/8 | 1.158 | 1.491 | 4.769 | 2.170 |



COMPRESSION CONNECTORS

# For Flexible Copper Cable – One Hole Long Barrel

L-B SERIES



## FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **L638B** | 6 AWG | 6-8 AWG |
| **L438B** | 4 AWG | 4 - 6 AWG |
| **L256B** | 2 AWG | 2 - 6 AWG |
| **L238B** | 2 AWG | 2 - 6 AWG |
| **L156B** | 1 AWG | 1 - 6 AWG |
| **L1056B** | 1/0 AWG | 1/0 - 6 AWG |
| **L2038B** | 2/0 AWG | 2/0 - 4 AWG |
| **L3038B** | 3/0 AWG | 3/0 - 2 AWG |
| **L3048B** | 3/0 AWG | 3/0 - 2 AWG |
| **L4048B** | 4/0 AWG | 4/0 - 1 AWG |
| **L25038B** | 250 MCM | 250 MCM - 1/0 AWG |
| **L25048B** | 250 MCM | 250 MCM - 1/0 AWG |
| **L30048B** | 300 MCM | 300 MCM - 2/0 AWG |
| **L35058B** | 350 MCM | 350 MCM - 3/0 AWG |
| **L50058B** | 500 MCM | 500 - 250 MCM |
| **L60058B** | 600 MCM | 600 - 250 MCM |
| **L70048B** | 700 MCM | 700-500 MCM |
| **L70058B** | 700 MCM | 700-500 MCM |
| **L75058B** | 750 MCM | 750-500 MCM |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

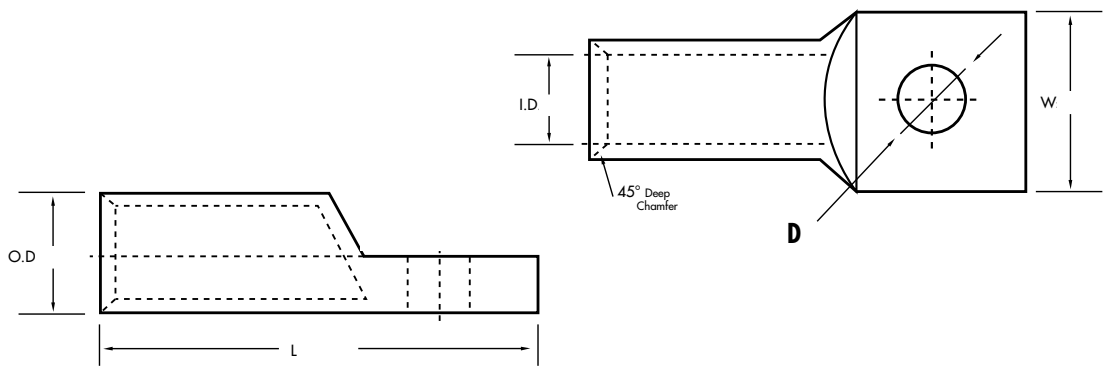




nsi INDUSTRIES



| COLOR CODE | CABLE SIZE | | | | LENGTH (L) | BOLT SIZE (D) | WIDTH (W) | I.D. | O.D. |
|---|---|---|---|---|---|---|---|---|---|
| | COMM | ASTM CLASS H | WELDING CLASS M | DIESEL LOCOMOTIVE | | | | | |
| Blue | 6 | 8 | 8 | (61) | 1.910 | 3/8 | 0.590 | 0.205 | 0.295 |
| Grey | 4 | 6 | 6 | (105) | 1.910 | 3/8 | 0.590 | 0.252 | 0.343 |
| Brown | 2 | 4 | 4 | (125) | 2.070 | 5/16 | 0.600 | 0.315 | 0.421 |
| Brown | 2 | 4 | 4 | (125) | 2.070 | 3/8 | 0.600 | 0.315 | 0.421 |
| Green | 1 | 2 | 2 | (150) | 2.110 | 5/16 | 0.670 | 0.358 | 0.469 |
| Pink | 1/0 | 1 | 1 | (225) | 2.210 | 5/16 | 0.740 | 0.390 | 0.520 |
| Black | 2/0 | 1/0 | 1/0 | 1/0 (275) | 2.680 | 3/8 | 0.810 | 0.441 | 0.563 |
| Orange | 3/0 | 2/0 | - | 2/0 (325) | 2.800 | 3/8 | 0.900 | 0.492 | 0.622 |
| Orange | 3/0 | 2/0 | - | 2/0 (325) | 2.800 | 1/2 | 1.000 | 0.492 | 0.622 |
| Purple | 4/0 | 3/0 | 2/0 | 3/0 (450) | 2.800 | 1/2 | 1.000 | 0.547 | 0.689 |
| Yellow | 250 | - | 3/0 | 4/0 (550) | 3.030 | 3/8 | 1.090 | 0.594 | 0.752 |
| Yellow | 250 | - | 3/0 | 4/0 (550) | 3.030 | 1/2 | 1.090 | 0.594 | 1.752 |
| White | 300 | 4/0 | 4/0 | 262.6 | 3.390 | 1/2 | 1.190 | 0.651 | 1.815 |
| Red | 350 | 250 | 250 | 313.1 | 3.460 | 5/8 | 1.280 | 0.701 | 0.874 |
| Brown | 500 | 350 | 300 | 373.3 | 4.130 | 5/8 | 1.540 | 0.835 | 1.063 |
| Green | 600 | 400 | 350 | 444.4 | 4.256 | 5/8 | 1.720 | 0.925 | 1.189 |
| - | 700 | 500 | 400 | 535.3 | 4.922 | 1/2 | 1.690 | 0.975 | 1.241 |
| - | 700 | 500 | 400 | 535.3 | 5.094 | 5/8 | 1.702 | 0.962 | 1.241 |
| Black | 750 | 600 | 500 | - | 5.160 | 5/8 | 1.900 | 1.031 | 1.311 |



COMPRESSION CONNECTORS

# For Flexible Copper Cable – Two Hole Long Barrel

L-NB SERIES



## FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.
- NEMA spaced mounting holes (1¾"). (E Dimension)

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **L30NB** | 3/0 | 3/0 - 2 AWG |
| **L40NB** | 4/0 | 4/0 - 1 |
| **L250NB** | 250 | 250 - 1/0 |
| **L300NB** | 300 | 300 - 2/0 |
| **L350NB** | 350 | 350 - 3/0 |
| **L500NB** | 500 | 500 - 250 |
| **L600NB** | 600 | 600 - 250 |
| **L700NB** | 700 | 700 - 500 |
| **L750NB** | 750 | 750 - 500 |
| **L100NB** | 1000 | 1000 - 750 |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

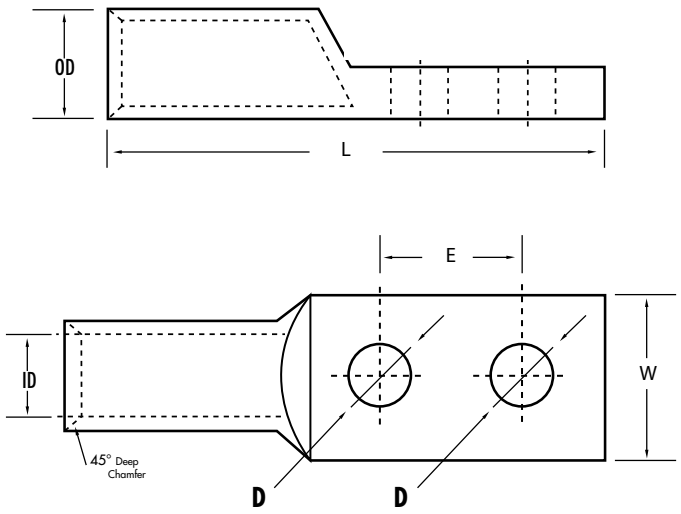




nsi INDUSTRIES



| COLOR CODE | LENGTH (L) | BOLT SIZE (D) | MOUNTING HOLE SPACING (E) | WIDTH (W) | I.D. | O.D. | COMM | CABLE SIZE | | DIESEL LOCOMOTIVE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ASTM CLASS H | CLASS M WELDING | | |
| Orange | 4.650 | 1/2 | 1.750 | 0.900 | 0.490 | 0.620 | 3/0 | 2/0 | – | 2/0 (325) | 12 |
| Purple | 4.720 | 1/2 | 1.750 | 1.000 | 0.550 | 0.690 | 4/0 | 3/0 | 2/0 | 3/0 (450) | 12 |
| Yellow | 4.960 | 1/2 | 1.750 | 1.090 | 0.590 | 0.750 | 250 | – | 3/0 | 4/0 (550) | 12 |
| White | 5.310 | 1/2 | 1.750 | 1.190 | 0.660 | 0.810 | 300 | 4/0 | 4/0 | 262.6 | 6 |
| Red | 5.390 | 1/2 | 1.750 | 1.280 | 0.700 | 0.870 | 350 | 250 | 250 | 313.1 | 6 |
| Brown | 5.750 | 1/2 | 1.750 | 1.540 | 0.840 | 1.060 | 500 | 350 | 300 | 373.3 | 3 |
| Green | 5.790 | 1/2 | 1.750 | 1.720 | 0.930 | 1.190 | 600 | 400 | 350 | 444.4 | 3 |
| Pink | 6.250 | 1/2 | 1.750 | 1.844 | 0.980 | 1.230 | 700 | 500 | 400 | 535.3 | 3 |
| Black | 6.300 | 1/2 | 1.750 | 1.900 | 1.030 | 1.310 | 750 | 600 | 500 | – | 3 |
| White | 7.125 | 1/2 | 1.750 | 2.160 | 1.150 | 1.500 | 1000 | 800 | 700 | 777.7 | 3 |



COMPRESSION CONNECTORS

# For Flexible Copper Cable – Two Hole Short Barrel (Peep Hole)

GL-NB SERIES



## FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.
- NEMA spaced mounting holes (1¾"). (E Dimension)

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **GL30NB** | 3/0 | 3/0 - 2 |
| **GL250NB** | 250 | 250 - 1/0 |
| **GL300NB** | 300 | 300 - 2/0 |
| **GL350NB** | 350 | 350 - 3/0 |
| **GL500NB** | 500 | 500 - 250 |
| **GL600NB** | 600 | 600 - 250 |
| **GL700NB** | 700 | 700-500 |
| **GL750NB** | 750 | 750 - 500 |
| **GL100NB** | 1000 | - |

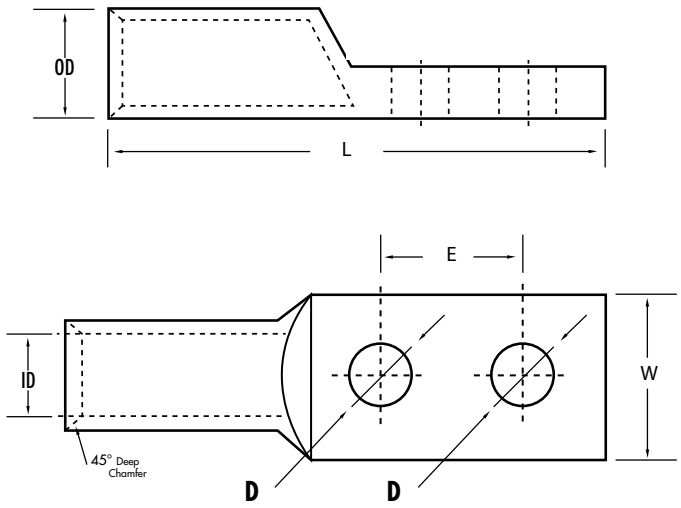
***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts



| COLOR CODE | BOLT SIZE | MOUNTING HOLE SPACING (E) | I.D. | O.D. | COMM | CABLE SIZE | | DIESEL LOCOMOTIVE | LENGTH (L) | WIDTH (W) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ASTM CLASS H | CLASS M WELDING | | | | |
| Orange | 1/2 | 1.750 | 0.492 | 0.622 | 3/0 | 2/0 | – | 2/0 (325) | 4.291 | 0.902 | 12 |
| Yellow | 1/2 | 1.750 | 0.590 | 0.752 | 250 | – | 3/0 | 4/0 (550) | 4.409 | 1.090 | 12 |
| White | 1/2 | 1.750 | 0.660 | 0.810 | 300 | 4/0 | 4/0 | 262.6 | 4.528 | 1.276 | 6 |
| Red | 1/2 | 1.750 | 0.700 | 0.870 | 350 | 250 | 250 | 313.1 | 4.528 | 1.276 | 6 |
| Brown | 1/2 | 1.750 | 0.840 | 1.060 | 500 | 350 | 300 | 373.3 | 4.882 | 1.540 | 3 |
| Green | 1/2 | 1.750 | 0.925 | 1.190 | 600 | 400 | 350 | 444.4 | 5.039 | 1.717 | 3 |
| Pink | 1/2 | 1.750 | 0.984 | 1.240 | 700 | - | - | - | 5.669 | 1.722 | 3 |
| Black | 1/2 | 1.750 | 1.040 | 1.310 | 750 | 600 | 500 | – | 5.512 | 1.900 | 3 |
| White | 1/2 | 1.750 | 1.173 | 1.492 | 1000 | 800 | 700 | 777.7 | 5.870 | 2.158 | 3 |



COMPRESSION CONNECTORS

# For Flexible Cable – Copper Short Barrel

SC-B SERIES



## FEATURES

- Splice has flared openings at both ends to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- Positive center stop.
- Tin-plated for corrosion resistance.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.

**TEMPERATURE RATING:**
90 °C.
600V.
for copper cables only.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* |
|---|---|---|
| **SC-1B** | 1 AWG | 1 AWG |
| **SC-1/0B** | 1/0 AWG | 1/0 - 6 AWG |
| **SC-2/0B** | 2/0 AWG | 2/0 - 4 AWG |
| **SC-3/0B** | 3/0 AWG | 3/0 - 2 AWG |
| **SC-4/0B** | 4/0 AWG | 4/0 - 1 AWG |
| **SC-250B** | 250 MCM | 250 MCM - 1/0 AWG |
| **SC-300B** | 300 MCM | 300 MCM - 2/0 AWG |
| **SC-350B** | 350 MCM | 350 MCM - 3/0 AWG |

***EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.
UL Listed with other tools:

**FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143**

Scan QR to view Tool & Die Charts

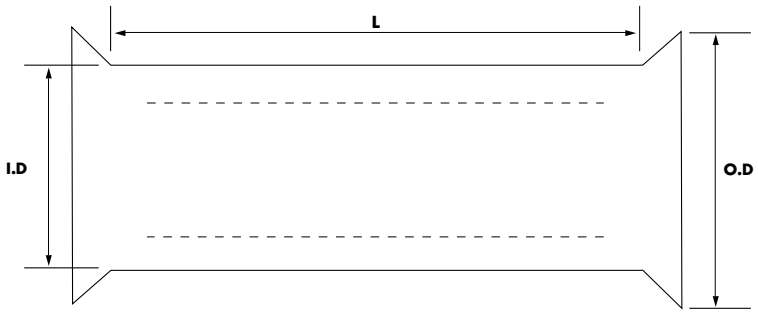




nsi INDUSTRIES



| COLOR CODE | LENGTH (L) | I.D. | O.D. | COMM | CABLE SIZE | | DIESEL LOCOMOTIVE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | | | | ASTM CLASS H | CLASS M WELDING | | |
| Green | 1.800 | 0.358 | 0.468 | 1 | - | - | - | 25 |
| Pink | 1.598 | 0.520 | 0.520 | 1/0 | 1 | 1 | (225) | 25 |
| Black | 1.752 | 0.560 | 0.563 | 2/0 | 1/0 | 1/0 | 1/0 (275) | 25 |
| Orange | 1.752 | 0.620 | 0.622 | 3/0 | 2/0 | – | 2/0 (325) | 25 |
| Purple | 1.902 | 0.690 | 0.689 | 4/0 | 3/0 | 2/0 | 3/0 (450) | 25 |
| Yellow | 2.000 | 0.750 | 0.752 | 250 | – | 3/0 | 4/0 (550) | 25 |
| White | 2.098 | 0.810 | 0.815 | 300 | 4/0 | 4/0 | 262.6 | 12 |
| Red | 2.098 | 0.870 | 0.874 | 350 | 250 | 250 | 313.1 | 12 |



COMPRESSION CONNECTORS

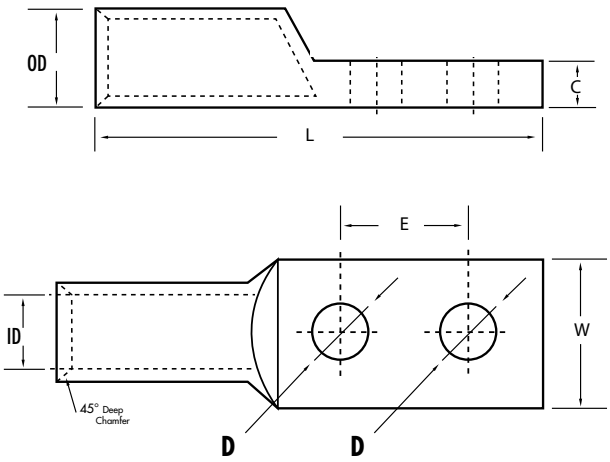
# For Copper Cable - Two Hole Short Barrel (No Peep Hole)

GLN-X SERIES



## FEATURES

- These connectors are the same as the GL-N Series – Short Barrel Copper Compression Lugs (with Peep Hole) except that they are provided without the peephole.
- Produced from high conductivity copper tubing, they are tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Listed for 35 KV maximum when properly installed.
- For bolt hole sizes not listed, please contact NSi.




## RATINGS

c UL us LISTED 155027

UL486A/B Listed.

* CLASS B OR C BUILDING WIRE CU CABLE ONLY

| CAT. NO. | WIRE SIZE | BOLT SIZE (D) | HOLE SPACING (E) | OD | ID | COLOR CODE | LENGTH (L) | WIDTH (W) | TANG THICKNESS (C) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **GL6N-141X** | 6 | 1/4 | 0.625 | | | Blue | 2.560 | 0.450 | 0.080 | 100 |
| **GL2N-141X** | 2 | 1/4 | 0.625 | | | Brown | 2.460 | 0.610 | 0.110 | 50 |
| **GL2N-38X** | 2 | 3/8 | 1.000 | | | Brown | 3.050 | 0.610 | 0.110 | 50 |
| **GL10N-38X** | 1/0 | 3/8 | 1.000 | | | Pink | 3.140 | 0.750 | 0.120 | 50 |

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 143



Scan QR to view Tool & Die Charts



nsi INDUSTRIES

COMPRESSION CONNECTORS

# Copper Soldering Lugs

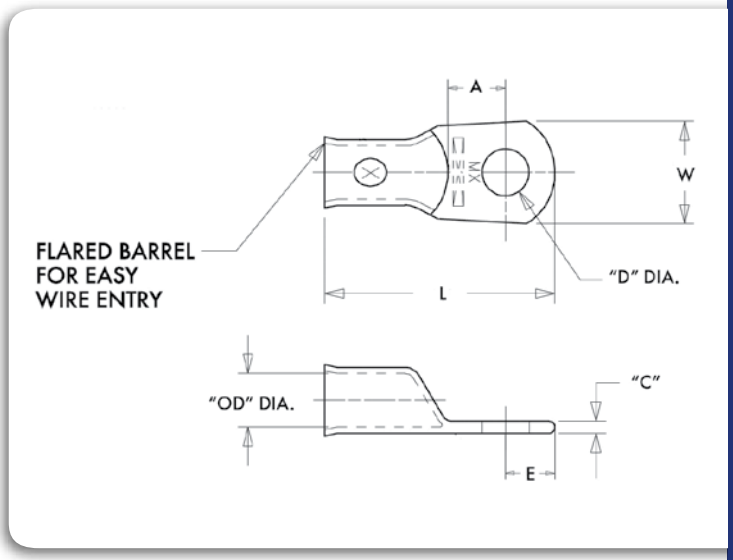
S SERIES





## FEATURES

- Made of pure electrolytic copper single hole.
- Side formed with round ends.
- All lugs marked with ampere rating.




## RATINGS

**TEMPERATURE RATING:**
90 °C. Rated 600V.

| CAT. NO. | WIRE SIZE | AMPERES | LENGTH (L) | WIDTH (W) | OD | HOLE DIAMETER (D) | TANG THICKNESS (C) | TANG LENGTH (A) | END OF CONN. TO CTR. OF 1ST HOLE (E) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **S-1** | 10 | 25 | 0.847 | 0.267 | 0.192 | 0.160 | 0.057 | 0.464 | 0.238 | 100 |
| **S-2** | 8 | 30-35 | 1.313 | 0.594 | 0.270 | 0.278 | 0.070 | 0.720 | 0.342 | 100 |
| **S-3** | 6 | 45-50 | 1.180 | 0.456 | 0.315 | 0.200 | 0.068 | 0.555 | 0.275 | 100 |
| **S-4** | 4 | 60-70 | 1.500 | 0.531 | 0.386 | 0.278 | 0.080 | 0.685 | 0.310 | 100 |
| **S-5** | 2 | 90 | 1.625 | 0.625 | 0.427 | 0.340 | 0.095 | 0.730 | 0.350 | 50 |
| **S-6** | 1/0 | 100-125 | 1.844 | 0.728 | 0.493 | 0.278 | 0.110 | 0.840 | 0.407 | 50 |
| **S-7** | 2/0 | 150 | 2.062 | 0.824 | 0.560 | 0.400 | 0.110 | 0.950 | 0.465 | 50 |
| **S-8** | 3/0 | 175 | 2.156 | 0.916 | 0.624 | 0.400 | 0.115 | 0.950 | 0.520 | 25 |
| **S-9** | 4/0 | 200-225 | 2.344 | 0.999 | 0.682 | 0.400 | 0.135 | 1.012 | 0.510 | 25 |
| **S-10** | 250 | 250 | 2.573 | 1.187 | 0.799 | 0.404 | 0.140 | 1.2 | 0.565 | 25 |

# C-Taps

## CT SERIES



## FEATURES

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.
- Rated for 600V applications.

## RATINGS

c UL us
LISTED
155027

UL486A/B Listed.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

| CAT. NO. | WIRE SIZE | | COLOR CODE | STD. CTN. QTY. |
|---|---|---|---|---|
| | MAIN | BRANCH | | |
| CT-101 | 14 | 16 | Red | 100 |
| | 12 | 14 | | |
| CT-102 | 10 | 10 | Blue | 100 |
| | 8 | 12 | | |
| CT-103 | 6 | 10-12 | Gray | 100 |
| | 8 | 8-10 | | |
| CT-104 | 4 or 5 | 8-10-12 | Brown | 100 |
| | 6 | 6-8 | | |
| CT-105 | 3 | 6-8-10-12 | Green | 100 |
| | 4 or 5 | 6-5 | | |
| CT-106 | 3 | 5 | Pink | 100 |
| | 4 | 4 | | |
| CT-107 | 1 | – | Black | 50 |
| | 2 | 4-5 | | |
| | 3 | 3-4 | | |
| CT-108 | 1/0 | 4 | Orange | 50 |
| | 1 | 3-4 | | |
| | 2 | 2-3 | | |
| CT-109 | 2/0 | 3-4 | Purple | 50 |
| | 1/0 | 2-3 | | |
| | - | 1-2 | | |
| CT-110 | 3/0 | 2-3-4 | Yellow | 25 |
| | 2/0 | 1-2 | | |
| | 1/0 | 1/0-1 | | |

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 145

Scan QR to view Tool & Die Charts





nsi INDUSTRIES

# COMPRESSION CONNECTORS
## C-Taps
### CTH SERIES





## FEATURES

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.
- Rated for 600V applications.

c UL us



## COPPER "C" TAPS

- Range-taking compression connectors made from high conductivity copper alloy.
- Ideal for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors.
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation. Installation time is reduced because of its "C" shape.

c UL us
LISTED
155027

UL486A/B Listed.
* CLASS B OR C BUILDING WIRE CU CABLE ONLY

**TEMPERATURE RATING:**
90 °C. Rated 600V.

| CAT. NO. | WIRE SIZE MAIN | WIRE SIZE BRANCH | COLOR CODE | STD. CTN. QTY. |
|---|---|---|---|---|
| CTH-111 | 1 | 1 | Blue | 25 |
| | 1/0 | 1/0-2 | | |
| | 2/0 | 2/0-4 | | |
| | 3/0 | 1/0-6 | | |
| | 4/0 | 1-8 | | |
| CTH-112 | 2/0 | 2/0-1 | Brown | 25 |
| | 3/0 | 3/0-3 | | |
| | 4/0 | 4/0-4 | | |
| | 250 | 1/0-8 | | |
| CTH-113 | 2/0 | 2/0-1 | Pink | 12 |
| | 3/0 | 3/0-2 | | |
| | 4/0 | 4/0-4 | | |
| | 250 | 3/0-6 | | |
| | 300 | 2/0-8 | | |
| CTH-114 | 4/0 | 4/0-2/0 | Black | 6 |
| | 250 | 250-1 | | |
| | 300 | 4/0-4 | | |
| | 350 | 3/0-6 | | |
| CTH-115 | 250 | 250 | Yellow | 6 |
| | 300 | 300-3/0 | | |
| | 350 | 350-1/0 | | |
| | 400 | 300-2 | | |
| | 450 | 250-4 | | |
| | 500 | 250-6 | | |
| CTH-116 | 350 | 350-4/0 | White | 3 |
| | 400 | 400-2/0 | | |
| | 450 | 450-1 | | |
| | 500 | 500-2 | | |
| CTH-117 | 750-500 | 4/0-6 | - | 3 |
| | 750 | 750-4/0 | | |

| CAT. NO. | CONDUCTOR RANGE RUN | CONDUCTOR RANGE TAP | STRIP LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|
| CTH-46 | 6 SOL - 4 STR | 6 SOL - 6 STR | 3/4 | 25 |
| CTH-44 | 6 SOL - 4 STR | 4 SOL - 4 STR | 3/4 | 25 |
| CTH-24 | 2 SOL - 2 STR | 8 SOL - 4 STR | 7/8 | 10 |
| CTH-22 | 2 SOL - 2 STR | 2 SOL - 2 STR | 7/8 | 25 |
| CTH-2020 | 1/0 STR - 2/0 STR | 1/0 STR - 2/0 STR | 11/16 | 3 |
| CTH-4020 | 3/0 STR - 4/0 STR | 1/0 STR - 2/0 STR | 13/16 | 3 |
| CTH-4040 | 3/0 STR - 4/0 STR | 3/0 STR - 4/0 STR | 13/16 | 3 |

All dimensional data is listed in inches.

Scan QR to view Tool & Die Charts

FOR TOOL & DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 145

COMPRESSION CONNECTORS

# Copper Press-Ons

CSP, CDP SERIES



## FEATURES

- Made of high conductivity copper – metal barrier separates conductor thereby eliminating strand cutting.
- Generous chamber protects cable.
- For compressing, use one crimp with hydraulic tools.
- Three crimps with mechanical tools.

| 1 | 2 |
|---|---|
| SINGLE TAB CSP | DOUBLE TAP CDP |
|  |  |

## RATINGS

c UL us

| CAT. NO. | SIDE A | WIRE DIA. RANGE (IN) | SIDE B | WIRE DIA. RANGE (IN) | DIE SETS FOR HYDRAULIC TOOLS | | | STD. PKG. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | | | | WH-1, W-2 | Y-35* | PRESS. SET | |
| **SINGLE TAB PRESS-ON** | | | | | | | | |
| **CSP-301** | 6 SOL, 6 STR, 4 SOL | 0.162/0.204 | 8 SOL, 8 STR, 6 SOL, 6 STR, 4 SOL | 0.128/0.204 | B-K-T | U-BG or U 243 | 4 | 1 |
| **DOUBLE TAB PRESS-ON** | | | | | | | | |
| **CDP-399-8** | 6 SOL, 6 STR, 4 SOL | 0.162/0.204 | 8 SOL, 6 STR, 4 SOL | 0.128/0.204 | B or B-K-T | U-BG or U 243 | 4 | 1 |
| **CDP-304-8** | 2 STR, 1 STR, 1/0 STR | 0.292/0.375 | 6 SOL, 4 SOL, 4 STR, 2 SOL, 2 STR, 1 STR, 1/0 STR | 0.162/0.258 | 0 | 0 | 4 | 1 |
| **CDP-303-8** | 2 STR, 1 STR, 1/0 STR | 0.292/0.375 | 6 SOL, 4 SOL, 4 STR, 2 SOL, 2 STR, 1 STR, 1/0 STR | 0.292/0.375 | 0 | 0 | 4 | 1 |
| **CDP-308-8** | 2/0 STR, 4/0 STR | 0.419/0.528 | 2 STR, 1 STR, 1/0 STR, 2/0 STR, 4/0 STR | 0.292/0.375 | D | D3 | 4 | 1 |
| **CDP-307-8** | 2/0 STR, 4/0 STR | 0.419/0.528 | 2 STR, 1 STR, 1/0 STR, 2/0 STR, 4/0 STR | 0.419/0.528 | D | D3 | 4 | 1 |





nsi INDUSTRIES

SPLIT BOLT CONNECTORS

# Copper Split Bolts
# 2 Wire
## N SERIES





## FEATURES

- High strength solderless service connector made of high-copper alloy for copper and copperweld wires.
- Type for two maximum wire sizes.

## RATINGS

| CAT. NO. | COPPER CONDUCTOR | | | MAXIMUM CONDUCTOR COPPERWELD | | WIRE DIA. RANGE | REC. TORQUE (IN. LB.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | RANGE OF EQUAL MAIN & TAP | | MIN. TAP WITH ONE MAX. MAIN | STR | TYPE A | IN. | | |
| | MIN. | MAX. | | | | | | |
| **N-10** | 16 STR | 10 STR | 16 STR | – | – | 0.057 – 0.116 | 80 | 100 |
| **N-8** | 16 STR | 8 STR | 16 STR | – | – | 0.057 – 0.145 | 80 | 100 |
| **N-6** | 10 SOL | 6 SOL | 16 SOL | – | – | 0.102 – 0.162 | 165 | 100 |
| **N-4** | 8 SOL | 4 SOL | 16 SOL | 3 NO.12 | 8A | 0.128 – 0.204 | 165 | 75 |
| **N-3** | 6 SOL | 2 SOL | 16 SOL | 3 NO. 9 | 5A | 0.162 – 0.258 | 275 | 50 |
| **N-2** | 6 SOL | 2 STR | 14 STR | 3 NO. 7 | 3A | 0.162 – 0.292 | 275 | 40 |
| **N-1/0** | 4 SOL | 1/0 STR | 14 SOL | 3 NO. 6 | 2A | 0.204 – 0.375 | 385 | 20 |
| **N-2/0** | 2 SOL | 2/0 STR | 14 STR | 3 NO. 5 | – | 0.258 – 0.418 | 385 | 15 |
| **N-3/0** | 2 SOL | 3/0 STR | 12 SOL | 7 NO. 7 | – | 0.258 – 0.470 | 500 | 10 |
| **N-250** | 1/0 SOL | 250 MCM | 10 SOL | 7 NO. 5 | – | 0.325 – 0.575 | 650 | 6 |
| **N-350** | 4/0 STR | 350 MCM | 8 SOL | 19 NO. 7 | – | 0.528 – 0.682 | 650 | 4 |
| **N-500** | 250 MCM | 500 MCM | 8 SOL | 19 NO. 6 | – | 0.575 – 0.815 | 825 | 3 |
| **N-750** | 350 MCM | 750 MCM | 8 SOL | 19 NO. 5 | – | 0.682 – 0.999 | 1000 | 2 |
| **N-1000** | 500 MCM | 1000 MCM | 8 SOL | – | – | 0.815 – 1.153 | 1100 | 2 |

SPLIT BOLT CONNECTORS

# Copper Split Bolts
# 3 Wire

N SERIES



## FEATURES

- High strength solderless service connector made of high-copper alloy for copper and copperweld wires.
- Type for three maximum wire sizes.

## RATINGS

| CAT. NO. | MAXIMUM WIRE SIZE | MIN. TAP WITH MAX. RUN | STD. CTN. QTY. |
|---|---|---|---|
| **N-8L** | 8 STR | 14 STR | 100 |
| **N-6L** | 6 STR | 12 STR | 100 |
| **N-4L** | 4 STR | 12 STR | 75 |
| **N-3L** | 3 STR | 10 STR | 40 |
| **N-2L** | 2 STR | 10 STR | 30 |

SPLIT BOLT CONNECTORS

# Copper Tin Plated Split Bolts

N-SP SERIES





## FEATURES

- Aluminum to copper.
- Aluminum to aluminum.
- Steel to aluminum.
- Copper to copper.
- Steel to copper.
- Electro-tinned body.
- UL listed for copper and copperweld wires only.
- Includes nut, spacer and pressure pad.

## RATINGS

| CAT. NO. | CONDUCTOR RANGE OF EQUAL MAIN & TAP MIN. | CONDUCTOR RANGE OF EQUAL MAIN & TAP MAX. | MIN. TAP WITH ONE MAX. MAIN | ACSR RANGE OF MAIN OR TAP MIN. | ACSR RANGE OF MAIN OR TAP MAX. | WIRE DIA. RANGE IN. | REC. TORQUE (IN. LB.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **N-6SP** | 14 STR | 8 STR | 14 STR | – | 8 | 0.073 - 0.146 | 165 | 100 |
| **N-4SP** | 10 STR | 6 STR | 10 SOL | – | 6 | 0.116 – 0.184 | 165 | 75 |
| **N-3SP** | 8 SOL | 3 STR | 8 SOL | 6 | 4 | 0.128 – 0.258 | 275 | 50 |
| **N-2SP** | 8 SOL | 2 STR | 8 SOL | 6 | 2 | 0.128 – 0.316 | 275 | 40 |
| **N-1/0SP** | 6 SOL | 1/0 STR | 10 SOL | 6 | 1 | 0.162 – 0.375 | 385 | 20 |
| **N-2/0SP** | 6 STR | 2/0 STR | 10 SOL | 6 | 1/0 | 0.184 – 0.419 | 385 | 15 |
| **N-3/0SP** | 4 STR | 3/0 STR | 6 SOL | 6 | 2/0 | 0.198 – 0.470 | 500 | 10 |
| **N-250SP** | 4 STR | 250 MCM | 4 STR | 4 | 4/0 | 0.232 – 0.575 | 650 | 6 |
| **N-350SP** | 3/0 STR | 350 MCM | 1 SOL | 2/0 | 350 | – | 650 | 4 |
| **N-500SP** | 3/0 STR | 500 MCM | 1/0 STR | 2/0 | 477 18/1 | – | 825 | 3 |
| **N-750SP** | 250 MCM | 750 MCM | 2/0 STR | 4/0 | 666.6 | – | 1000 | 2 |
| **N-1000SP** | 250 MCM | 1000 MCM | 4/0 STR | 300 | 900 | – | 1100 | 2 |

SPLIT BOLT CONNECTORS

# Aluminum Dual Rated Split Bolts

APS SERIES



## FEATURES

- Made from tin-plated aluminum.
- UL-486B listed for aluminum and copper conductor combinations.

## RATINGS

| CAT. NO. | RANGE OF EQUAL MAIN AND TAP (COPPER AND ALUMINUM) | WIRE DIAMETER RANGE (INCHES) | RECOMMENDED TORQUE (IN. LB.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **APS06** | 10 SOL. – 6 STR | 0.101 – 0.184 | 165 | 100 |
| **APS04** | 10 SOL. – 4 STR | 0.101 – 0.232 | 165 | 75 |
| **APS02** | 8 STR. – 2 STR | 0.146 – 0.292 | 275 | 40 |
| **APS11** | 8 SOL. – 1/0 STR | 0.162 – 0.375 | 385 | 20 |
| **APS21** | 2 SOL. – 2/0 STR | 0.257 – 0.418 | 390 | 15 |
| **APS41** | 6 STR. – 4/0 STR | 0.368 – 0.575 | 650 | 6 |
| **APS350*** | 2/0 STR. – 350 MCM | 0.414 – 0.681 | 650 | 3 |
| **APS500** | 3/0 STR. – 500 MCM | 0.464 – 0.814 | 825 | 2 |

* Not CSA Approved



CONNECTORS

# Service Post Connectors
# One-Wire Type

SPM SERIES



## FEATURES

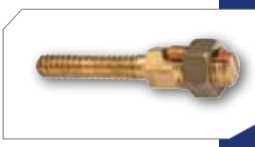
- Made from high copper content hard-drawn rod; used for connecting one or two conductors.
- Lay-in feature makes them excellent for continuous loop grounding and bonding.
- Used to ground to bar or plate.
- Suitable for direct burial in earth or concrete.

## RATINGS

| CAT. NO. | CONDUCTOR RANGE | STUD SIZE | HEX NUT | STD. CTN. QTY. |
|---|---|---|---|---|
| **SPM-1L** | 12 SOL - 8 STR | 0.250 X 20-1 | 0.375 X 24 | 25 |
| **SPM-2L** | 8 SOL - 7 STR | 0.250 x 20-1 | 0.437 x 20 | 25 |
| **SPM-3L** | 10 SOL - 4 STR | 0.312 x 18-1 | 0.500 x 20 | 25 |
| **SPM-4L** | 6 SOL - 3 STR | 0.375 x 16 – 1.125 | 0.562 x 18 | 12 |
| **SPM-5L** | 4 STR - 2 STR | 0.375 x 16 – 1.125 | 0.625 x 18 | 12 |
| **SPM-6L** | 6 SOL - 1/0 STR | 0.500 x 13 – 1.250 | 0.750 x 16 | 12 |
| **SPM-7L** | 1 SOL - 2/0 STR | 0.500 x 13 – 1.250 | 0.875 x 14 | 6 |
| **SPM-9L** | 3/0 SOL - 4/0 STR | 0.625 x 11 – 1.500 | 1.125 X 11 | 3 |

# Service Post Connectors
## Two-Wire Type
### SPM SERIES





## FEATURES

- Made from high copper content hard-drawn rod; used for connecting one or two conductors.
- Lay-in feature makes them excellent for continuous loop grounding and bonding.
- Used to ground to bar or plate.
- Suitable for direct burial in earth or concrete.

| CAT. NO. | CONDUCTOR RANGE | STUD SIZE | HEX NUT | STD. CTN. QTY. |
|---|---|---|---|---|
| **SPM-21L** | 12 SOL - 8 STR | 0.250 x 20 – 1 | 0.375 x 24 | 25 |
| **SPM-22L** | 10 SOL - 7 STR | 0.250 x 20 – 1 | 0.437 x 20 | 25 |
| **SPM-23L** | 8 SOL - 5 STR | 0.312 x 18 – 1 | 0.500 x 20 | 25 |
| **SPM-24L** | 6 SOL - 3 STR | 0.375 x 16 – 1.125 | 0.562 x 18 | 12 |
| **SPM-25L** | 10 SOL - 2 STR | 0.375 x 16 – 1.125 | 0.625 x 18 | 12 |
| **SPM-26L** | 4 SOL - 1/0 STR | 0.500 x 13 – 1.250 | 0.750 x 16 | 12 |
| **SPM-27L** | 2 SOL - 2 STR | 0.500 x 13 – 1.250 | 0.875 x 14 | 6 |
| **SPM-29L** | 1 SOL - 4/0 STR | 0.625 x 11 – 1.500 | 1.125 X 11 | 3 |

TAP CONNECTORS

# Two-Bolt Bronze For Copper To Copper

TC SERIES



## FEATURES

- Made from high strength bronze castings – assurance against stress corrosion and season cracking.
- Designed for heavy-duty service connections.
- The cap swivels to permit quick and easy installation of conductors.
- Retaining rubber washer eliminates loose parts.
- Silicon bronze hardware.
- Flat back permits use as bus tap when used with longer bolts.

| CAT. NO. | MAIN WIRE RANGE | | TAP WIRE RANGE | | STD. CTN. QTY. |
|---|---|---|---|---|---|
| | MAX. | MIN. | MAX. | MIN. | |
| **TC 1/0** | 1/0 STR | 2 SOL | 1/0 STR | 6 SOL | 10 |
| **TC 2/0** | 2/0 STR | 1 SOL | 2/0 STR | 6 SOL | 10 |
| **TC 4/0** | 4/0 STR | 2/0 STR | 4/0 STR | 6 SOL | 6 |
| **TC 350** | 350 MCM | 4/0 STR | 350 MCM | 4 SOL | 5 |
| **TC 500** | 500 MCM | 350 MCM | 500 MCM | 4 SOL | 5 |
| **TC 800** | 800 MCM | 600 MCM | 800 MCM | 2 SOL | 3 |
| **TC 1000** | 1000 MCM | 750 MCM | 1000 MCM | 2 SOL | 2 |

TAP CONNECTORS

# Two-Bolt Bronze For Aluminum, Copper and Steel

TCP SERIES





## FEATURES

- All parts are tin plated.
- Made from high strength bronze castings with high conductivity spacer bar.
- Designed for heavy-duty service connections.
- The cap swivels to permit quick and easy installation of conductors.
- Retaining rubber washer eliminates loose parts.
- Silicon bronze hardware.
- Flat back permits use as bus tap when used with longer bolts.

| CAT. NO. | MAIN WIRE RANGE | | TAP WIRE RANGE | | STD. CTN. QTY. |
|---|---|---|---|---|---|
| | MAX. | MIN. | MAX. | MIN. | |
| **TCP 1/0** | 1/0 STR | 2 SOL | 1/0 STR | 6 SOL | 10 |
| **TCP 2/0** | 2/0 STR | 1 SOL | 2/0 STR | 6 SOL | 10 |
| **TCP 4/0** | 4/0 STR | 2/0 STR | 4/0 STR | 6 SOL | 6 |
| **TCP 350** | 350 MCM | 4/0 STR | 350 MCM | 4 SOL | 5 |
| **TCP 500** | 500 MCM | 350 MCM | 500 MCM | 4 SOL | 5 |
| **TCP 800** | 800 MCM | 600 MCM | 800 MCM | 2 SOL | 3 |
| **TCP 1000** | 1000 MCM | 750 MCM | 1000 MCM | 2 SOL | 2 |

EASY-TAP™

# IPCS Series – Insulation Piercing Connectors

IPCS SERIES



## FEATURES

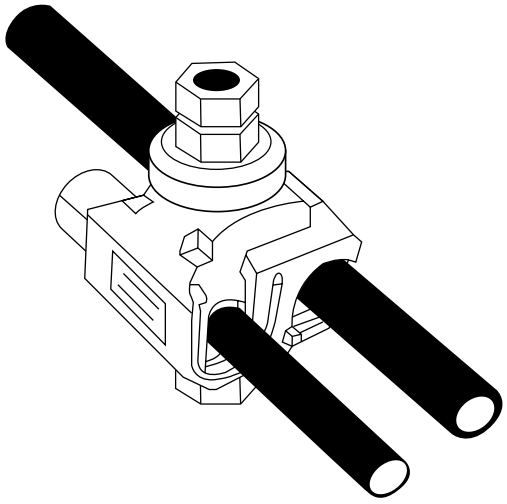
- Safe to use.
- No need to strip wire and totally insulated.
- No tape or cover needed.
- No contact at any point with a live part.
- Can be installed on energized conductors.
- Versatile and reliable.
- No spacer required between connections.
- Exclusive "turbo spacer" keeps tap side open while main conductor is being tightened.
- No need for a third hand to install.
- Watertight and corrosion-free.
- Connection sealed by a rubber grommet.
- No migration of water.
- No contamination between main and tap.
- Connectors handle a large wire range of #14 AWG to 750MCM.
- Double shear-head bolts ensure perfect connection every time Hot spots eliminated.
- Can be used as a splice or a tap.
- Easy to install and no special tools required.
- For copper-to-copper, copper-to-aluminum and aluminum-to-aluminum applications.
- Suitable for solid and/or stranded wires.
- 4 sizes are approved for use with bare wire (from 4/0 to #10) - these connectors come with a blue insert which re-creates the insulation and avoids any damage to the conductor.

## RATINGS

UL486B listed.
Meets ANSI C119.4 requirements.

**TEMPERATURE RATING:**
90 °C.

**VOLTAGE:**
600V.





| CAT. NO. | CONDUCTOR RANGE | | CURRENT RATING | | DIMENSIONS (IN) | | | NO. OF BOLTS | STD. PACK QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| | MAIN AWG | TAP AWG | CU AMP | AL AMP | HEIGHT | WIDTH | LENGTH | | | |
| **IPCS2001*** | 2/0 – 4 | 10 – 14 | 55 | 40 | 3.000 | 1.800 | 2.200 | 1 | 1 | 6 |
| **IPCS7501*** | 750 – 3/0 | 10 – 14 | 55 | 40 | 3.700 | 2.400 | 2.600 | 1 | 1 | 6 |
| **IPCS1002** | 1/0 – 8 | 2 – 10 | 190 | 150 | 3.100 | 1.800 | 2.200 | 1 | 1 | 6 |
| **IPCS1010** | 1/0 – 8 | 1/0 – 8 | 190 | 150 | 3.100 | 1.800 | 2.200 | 1 | 1 | 6 |
| **IPCS4002*** | 4/0 – 3 | 2 – 10 | 190 | 150 | 3.100 | 1.800 | 2.200 | 1 | 1 | 6 |
| **IPCS4020** | 4/0 – 2 | 2/0 – 6 | 300 | 235 | 3.300 | 2.200 | 2.600 | 1 | 1 | 4 |
| **IPCS4040** | 4/0 – 2 | 4/0 – 4 | 405 | 315 | 3.300 | 2.400 | 3.500 | 1 | 1 | 4 |
| **IPCS2540**** | 250 – 1 | 4/0 – 4 | 405 | 315 | 3.500 | 2.200 | 2.600 | 1 | 1 | 4 |
| **IPCS3535**** | 350 – 1/0 | 350 – 1/0 | 570 | 445 | 4.500 | 3.000 | 3.900 | 2 | 1 | 2 |
| **IPCS5040**** | 500 – 2/0 | 4/0 – 4 | 405 | 315 | 4.500 | 3.000 | 3.900 | 2 | 1 | 2 |
| **IPCS5035**** | 500 – 4/0 | 350 – 1/0 | 570 | 445 | 4.500 | 3.000 | 3.900 | 2 | 1 | 2 |
| **IPCS7550**** | 750 – 250 | 500 – 250 | 700 | 545 | 4.700 | 3.300 | 4.300 | 2 | 1 | 2 |

*Cannot be used with bare wire or as a splice
**Cannot be used with bare wire
All sizes can be installed on energized main conductor, however, the tap must not be under load.
Not recommended for use with extra-flexible cables.
Not approved for submersible applications.

CONNECTOR BLOKS™

# Single Primary Multiple Secondary Connector Blocks

AS, AM, AL SERIES



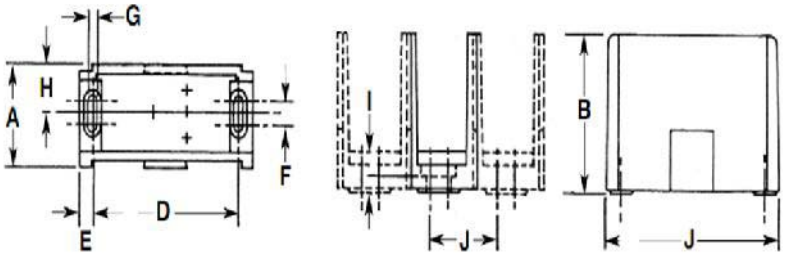
## SINGLE PRIMARY, MULTIPLE SECONDARY

- Each block can stand alone or combine with other blocks to form a multi-block set.
- Add as many holes as you need, in any configuration you want!
- There are no end pieces or connector pieces to fool around with.
- The connector body is made from high strength, high conductivity aluminum alloy and is mounted in a high strength glass-filled polyester base.
- Default SCCR Rating 10,000 Amps.

## CONNECTOR BLOK COVERS

- See-through clear acrylic covers permit visual inspection.
- Snaps easily into place.
- Just three sizes fit all styles and configurations of Connector Bloks*.







| CONFIGURATION | | CAT. NO. | AMPS PER POLE | LENGTH | HEIGHT | WIDTH | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| LINE SIDE | LOAD SIDE | | | | | | | |
| 2/0-14 AWG | 4-14 AWG | **AS-K1-H4** | 175 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 2/0-14 AWG | 4-14 AWG | **AS-K1-H6** | 175 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 350MCM-6 AWG | 4-14 AWG | **AM-P1-H6** | 310 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 350MCM-6 AWG | 4-14 AWG | **AM-P1-H12** | 310 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 350MCM-6 AWG | 2/0-14 AWG | **AL-P1-K6** | 310 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 4-14 AWG | **AM-R1-H12** | 380 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 500MCM-4 AWG | 2/0-14 AWG | **AL-R1-K6** | 380 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 4/0-6 AWG | **AL-R1-M4** | 380 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 1000-250 MCM | 2/0-14 AWG | **AL-V1-K6** | 545 | 5.500 | 3.250 | 2.900 | 1 | 1 |

| CAT. NO. | FOR USE WITH CONNECTOR BLOCKS SERIES WITH PREFIX | STD. CTN. QTY. |
|---|---|---|
| **CS** | AS* | 12 |
| **CM** | AM | 9 |
| **CL** | AL | 6 |

*Not suitable for use with Catalog No. AS-K2-H6. AS-K2-K2 and AS-K1-H6.

CONNECTOR BLOKS™

# Multiple Primary Multiple Secondary Connector Blocks

AS, AM, AL SERIES



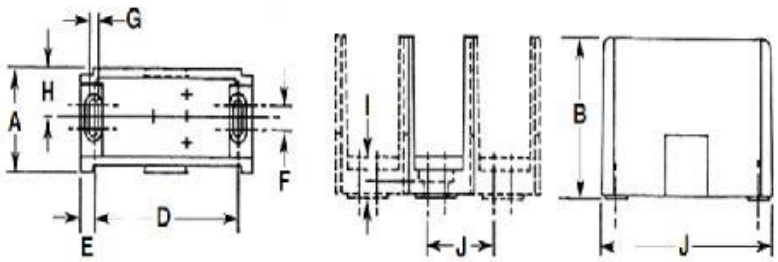
## SINGLE PRIMARY, MULTIPLE SECONDARY

- Compact.
- Versatile.
- 90 °C.
- 600V.
- Durable.
- High-impact bases.
- One-piece connectors.
- No assembly on job site.
- Default SCCR Rating 10,000 Amps.

## CONNECTOR BLOK COVERS

- See-through clear acrylic covers permit visual inspection.
- Snaps easily into place.
- Just three sizes fit all styles and configurations of Connector Bloks*.







| CONFIGURATION | | CAT. NO. | AMPS PER POLE | LENGTH | HEIGHT | WIDTH | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| LINE SIDE | LOAD SIDE | | | | | | | |
| 2/0-14 AWG | 4-14 AWG | **AS-K2-H6** | 350 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 2/0-14 AWG | 4-14 AWG | **AM-K2-H6** | 350 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 2/0-14 AWG | 4-14 AWG | **AM-K2-H12** | 350 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 2/0-14 AWG | 2-14 AWG | **AM-K2-I6** | 350 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 350MCM-6 AWG | 4-14 AWG | **AL-P2-H12** | 620 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 350MCM-6 AWG | 2/0-14 AWG | **AL-P2-K6** | 620 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 4-14 AWG | **AL-R2-H12** | 760 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 2/0-14 AWG | **AL-R2-K6** | 760 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 4/0-6 AWG | **AL-R2-M4** | 760 | 5.500 | 3.250 | 2.900 | 1 | 3 |

| CAT. NO. | FOR USE WITH CONNECTOR BLOCKS SERIES WITH PREFIX | STD. CTN. QTY. |
|---|---|---|
| **CS** | AS* | 12 |
| **CM** | AM | 9 |
| **CL** | AL | 6 |

*Not suitable for use with Catalog No. AS-K2-H6. AS-K2-K2 and AS-K1-H6.

CONNECTOR BLOKS™

# Splice Reducer Primary Secondary Connector Blocks

AS, AM, AL SERIES



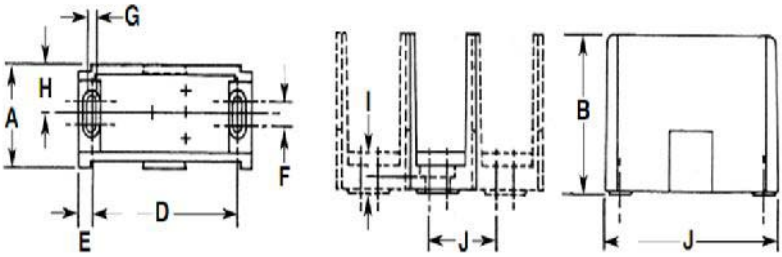
## SINGLE PRIMARY, MULTIPLE SECONDARY

- Compact.
- Versatile.
- 90 °C.
- 600V.
- Durable.
- High-impact bases.
- One-piece connectors.
- No assembly on job site.
- Default SCCR Rating 10,000 Amps.

## CONNECTOR BLOK COVERS

- See-through clear acrylic covers permit visual inspection.
- Snaps easily into place.
- Just three sizes fit all styles and configurations of Connector Bloks*.







| CONFIGURATION | | CAT. NO. | AMPS PER POLE | LENGTH | HEIGHT | WIDTH | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| LINE SIDE | LOAD SIDE | | | | | | | |
| 2-14 AWG | 2-14 AWG | **AS-I1-I1** | 115 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 2/0-14 AWG | 2/0-14 AWG | **AS-K1-K1** | 175 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 250MCM-6 AWG | 250MCM-6 AWG | **AM-N1-N1** | 310 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 350MCM-6 AWG | 350MCM-6 AWG | **AM-P1-P1** | 350 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 500MCM-4 AWG | 500MCM-4 AWG | **AM-R1-R1** | 380 | 4.000 | 2.620 | 1.710 | 1 | 3 |
| 2/0-14 AWG | 2/0-14 AWG | **AS-K2-K2** | 350 | 2.900 | 2.340 | 1.040 | 1 | 3 |
| 350MCM-6 AWG | 350MCM-6 AWG | **AL-P2-P2** | 620 | 5.500 | 3.250 | 2.900 | 1 | 3 |
| 500MCM-4 AWG | 500MCM-4 AWG | **AL-R2-R2** | 760 | 5.500 | 3.250 | 2.900 | 1 | 3 |

| CAT. NO. | FOR USE WITH CONNECTOR BLOCKS SERIES WITH PREFIX | STD. CTN. QTY. |
|---|---|---|
| **CS** | AS* | 12 |
| **CM** | AM | 9 |
| **CL** | AL | 6 |

*Not suitable for use with Catalog No. AS-K2-H6. AS-K2-K2 and AS-K1-H6.

TERMINAL BLOKS™

# Double Row 9/16" Centers, 600V

TB SERIES

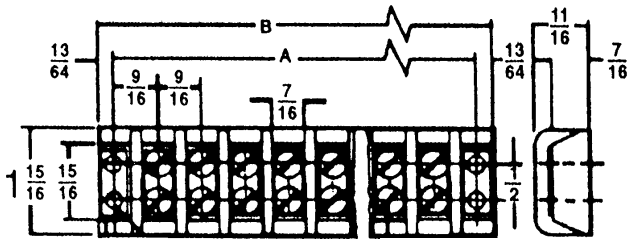


## FEATURES

- Heavy duty construction with corrosion-resistant terminal plates ensures dependable, easy-access multiple terminations.
- Made from strong, glass-filled polyester.
- Screws are #8 stud size.
- Other sizes and styles available.
- Contact NSi for price and availability.

**TEMPERATURE RATING:**
208 °C.

**VOLTAGE:**
30AMP.
600V Max.




| CAT. NO. | NUMBER OF CIRCUITS | DIMENSIONS A | DIMENSIONS B | STD. CTN. QTY. |
|---|---|---|---|---|
| **TB3096-2** | 2 | 1.688 | 2.109 | 10 |
| **TB3096-4** | 4 | 2.812 | 3.250 | 10 |
| **TB3096-6** | 6 | 3.938 | 4.375 | 6 |
| **TB3096-8** | 8 | 5.062 | 5.500 | 4 |
| **TB3096-10** | 10 | 6.203 | 6.625 | 4 |
| **TB3096-12** | 12 | 7.328 | 7.750 | 3 |
| **TB3096-14** | 14 | 8.453 | 8.875 | 3 |

TERMINAL BLOKS™

# Hardware Options

## FQC SERIES





## FEATURES

- Nickel plated.
- 0.250 x 0.30 tab size.
- 22-14AWG wire size.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

## RATINGS

**VOLTAGE:**
30AMP.
600V Max.

| CAT. NO. | FIGURE NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **FQC-00** | 1 | quick disconnect – 0° flat | 10 |
| **FQC-45** | 2 | quick disconnect – 45° bend | 10 |
| **FQC-90** | 3 | quick disconnect – 90° bend | 10 |
| **J-30** | 4 | 30 AMP jumper | 10 |

TERMINAL BLOKS™

# Splicer/Reducers 75 Amps 600V

TBS SERIES



## FEATURES

- Terminal Bloks™ power terminal blocks are made from high conductivity bodies and will accept either copper or aluminum conductors on the line side.
- The bases are manufactured from high strength phenolic compound.
- Contact NSi for price and availability.
- 2-14 AWG.

## RATINGS

**TEMPERATURE RATING:**
150 °C.

| CAT. NO. | NO. OF POLES | WIRE RANGE | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **TBS2-2** | 2 | 2-14 AWG CU or AL | 1.750 | 1.250 | 1.500 | 6 |
| **TBS2-3** | 3 | 2-14 AWG CU or AL | 2.380 | 1.250 | 1.500 | 6 |



TERMINAL BLOKS™

# Rail Mounted Modular Terminal Block Hardware Options

DRT, FTB, DRE, DRJ SERIES



## RAIL MOUNTED MODULAR

- NSi din rail mounted terminal blocks are a cost-effective and intelligent solution to connecting and terminating a wide variety of sizes and styles of wiring in a neat and professional manner.
- Individual blocks can easily be inserted or removed without disturbing adjacent blocks.
- Insertion is made by snapping the block in place by hand.
- Only a screwdriver is needed for removal.
- Mounting rail is fastened by screws to the mounting surface.
- No special brackets or hardware are needed.
- Component pieces may be mixed in an assembly.
- Blocks form their own barriers.
- Blocks include integral mounting feet with screw slot for direct panel mounting, if desired.

## TERMINAL BLOCKS-HARDWARE OPTIONS

- Made from 35mm unplated 6061-T6 Aluminum alloy providing for a strong, lightweight rail for mounting sockets, terminal blocks or other electro-mechanical devices.
- Comes supplied with oval holes 1.1 cm, approximately x 0.4 cm apart.
- Standard 10mm height allows for ease of installation vs. traditional 7.5mm height.



| CAT. NO. | HEIGHT | LENGTH | STD. CTN. QTY |
|---|---|---|---|
| **DR3910** | 10 mm | 39.3″ | 10 |



1

2

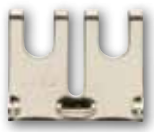
3

4

5

6

7

8


| CATALOG NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **25 AMP TERMINAL BLOCK** | | | |
| **DRTB25F** | 1 | Will accept #22 to two #12 wires per terminal and include captive wire clamps for use with stranded or solid wire or ring terminals. Flat top marking with either pen or stick-on labels. Rated 25 Amps, 600 Volts. | 50 |
| **50 AMP TERMINAL BLOCK** | | | |
| **DRTB50** | 2 | The DRTB50 block uses a box type connector to accept up to a #8 str. Requires only 3/8" per point, allowing 32 points per foot. Provides 3/8" square marking area. Rated 50 Amps, 600 Volts, 94V-0 Rated housing. | 25 |
| **SINGLE POLE DISCONNECT** | | | |
| **DRDTB-1** | 3 | The DRD Series of Disconnect Blocks may be used in a single-pole function or linked together with other disconnects to form multiple pole assemblies. Rated 15 Amps per pole. Accepts #22 to two #12 wires per terminal. | 10 |
| **2 POLE DISCONNECT** | | | |
| **DRDTB-2** | 4 | Two single-pole disconnects with an interlocked handle so that operation on any pole operates all poles. This unique assembly makes it possible to interlock the isolation of different control panel functions without using expensive relays or cam switches. | 6 |
| **DRFTB FUSE BLOCK** | | | |
| **DRFTB** | 5 | The DRFTB Fuse Block accepts 13/32" dia. by 1 1/2" long cartridge fuses through 25 Amps, 600 Volts. The fusible block requires 3/4" rail taking exactly two standard terminal blocks. | 10 |
| **FUSE PULLER** | | | |
| **FTBFP** | 6 | The FTBFB is supplied red as standard. | 25 |
| **END BARRIER** | | | |
| **DREB** | 7 | Each assembly of blocks requires only an end barrier on each end of the assembly. It acts as both the end barrier for the block and retains the blocks on the rail. | 50 |
| **JUMPER** | | | |
| **DRJS2** | 8 | Jumper strap from one point to another on 25 Amp terminal block. | 100 |

TERMINAL BLOKS™

# Insulated Terminal Block

ITB SERIES



## FEATURES

- Nylon 66 housing ensures 'touchproof' safety.
- Recessed screws and tubular contacts provide additional safety and help prevent short circuits.
- Integrated stainless steel spring wire protectors prevent twisting and breaking of stranded wires during installation.
- Tubular contacts connect stripped solid or stranded un-terminated wire directly to each contact.
- Modular design allows for connector to be cut into smaller sections or stacked end-to-end.
- Brass metal alloy, nickel plated terminal insert.
- Zinc plated, yellow chromed screws.

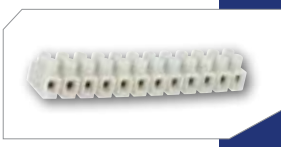
| CAT. NO. | NO. OF CIRCUTS | RATINGS |
|---|---|---|
| **ITB20-12** | 12 | RU |
| | | CSA |
| **ITB30-12** | 12 | RU |
| | | CSA |
| **ITB35-12** | 12 | CRU |
| **ITB50-12** | 12 | CRU |

## RATINGS

Rated UL 94V-2.

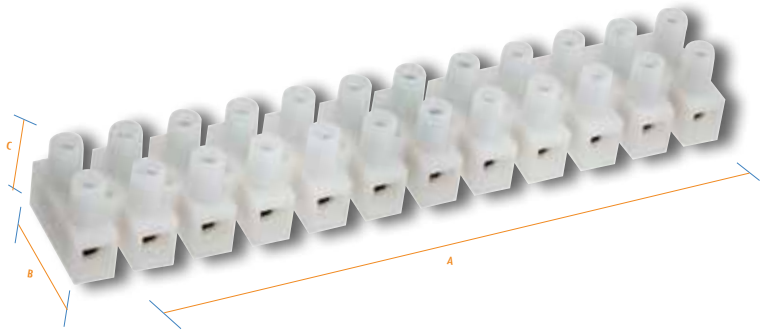
**TEMPERATURE RATING:**
110 °C.

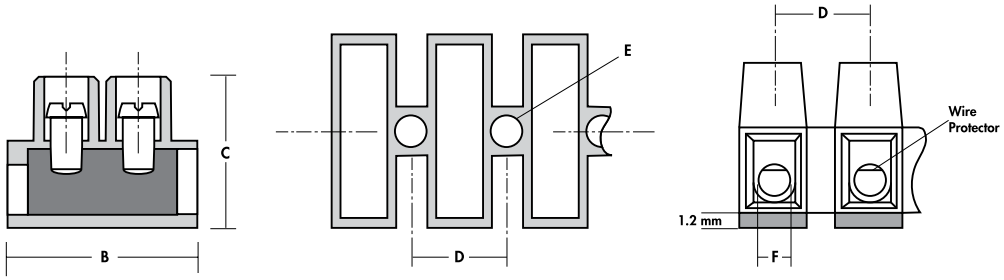
**VOLTAGE:**
300V.



| AMPS | WIRE RANGE | DIMENSIONS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | |
| 20 | 22-12 | 3.787 | 0.669 | 0.570 | 0.315 | 0.114 | 0.110 | 50 |
| 10 | 20-18 | | | | | | | |
| 30 | 22-10 | 4.626 | 0.795 | 0.670 | 0.394 | 0.142 | 0.134 | 50 |
| 20 | 18-14 | | | | | | | |
| 35 | 22-10 | 5.540 | 0.937 | 0.748 | 0.472 | 0.154 | 0.154 | 40 |
| 50 | 20-8 | 6.220 | 1.008 | 0.992 | 0.531 | 0.173 | 0.189 | 25 |

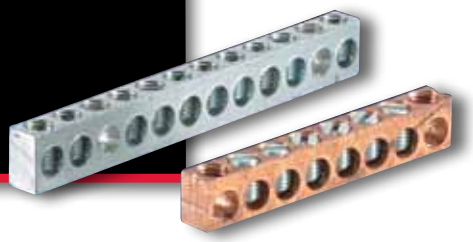
## DIMENSIONS



MULTIPLE CONNECTORS

# Used In Neutral Assemblies And Grounding Applications

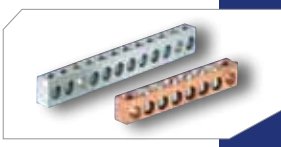


## FEATURES

- Multiple connectors are made from either copper or aluminum bar and can be used in a variety of neutral and grounding applications.
- Aluminum connectors are tin plated for low contact resistance and are suitable for use with copper or aluminum conductors. Aluminum connectors are dual rated for use with aluminum and copper cables.
- Copper connectors are suitable for use with copper wire only. The
- 4-14 AWG multiple connectors can be custom made in any number of wire holes up to 190 holes.
- Contact NSi for price and delivery information.

## RATINGS

| CAT. NO. | MATERIAL |
|---|---|
| 4-14 (32) | Aluminum |
| 4-14 (53) | Aluminum |
| 4-14 (63) | Aluminum |
| 4-14 (74) | Aluminum |
| 4-14 (614) | Aluminum |
| 4-14 (717) | Aluminum |
| 4-14 (726) | Aluminum |
| 4-14 (847) | Aluminum |
| 4-14 (937) | Aluminum |
| 4-14 (11111) | Aluminum |
| 4-14 (12112) | Aluminum |
| 4-14 (14114) | Aluminum |
| 4-14 (17117) | Aluminum |
| 4-14 (22122) | Aluminum |
| 4-14 (190)* | Aluminum |
| 2-14 (12311)** | Aluminum |
| 2/0-14 (32)** | Aluminum |
| 2/0-14 (524)** | Aluminum |
| 2/0-14 (818)** | Aluminum |
| 4C-14 (616) | Copper |
| 4C-14 (717) | Copper |
| 4C-14 (818) | Copper |
| 4C-14 (14114) | Copper |
| 4C-14 (15313) | Copper |
| 4C-14 (15611) | Copper |
| 4C-190* | Copper |
| 2C-14 (515) | Copper |
| 2C-14 (827) | Copper |



| WIRE RANGE | NO. OF CIRCUTS | TOTAL NO. OF HOLES | LENGTH | HEIGHT | WIDTH | HOLE SPACING | MTNG. HOLE POSITION | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 4-14 | 2 | 3 | 0.950 | 0.440 | 0.310 | 0.312 | 2 | 100 |
| 4-14 | 4 | 5 | 1.570 | 0.440 | 0.310 | 0.312 | 3 | 100 |
| 4-14 | 5 | 6 | 1.880 | 0.440 | 0.310 | 0.312 | 3 | 100 |
| 4-14 | 6 | 7 | 2.250 | 0.440 | 0.310 | 0.312 | 4 | 100 |
| 4-14 | 4 | 6 | 1.880 | 0.440 | 0.310 | 0.312 | 1 & 4 | 100 |
| 4-14 | 5 | 7 | 2.250 | 0.440 | 0.310 | 0.312 | 1 & 7 | 100 |
| 4-14 | 5 | 7 | 2.250 | 0.440 | 0.310 | 0.312 | 2 & 6 | 100 |
| 4-14 | 6 | 8 | 2.560 | 0.440 | 0.310 | 0.312 | 4 & 7 | 100 |
| 4-14 | 7 | 9 | 2.870 | 0.440 | 0.310 | 0.312 | 3 & 7 | 100 |
| 4-14 | 9 | 11 | 3.500 | 0.440 | 0.310 | 0.312 | 1 & 11 | 50 |
| 4-14 | 10 | 12 | 3.810 | 0.440 | 0.310 | 0.312 | 1 & 12 | 50 |
| 4-14 | 12 | 14 | 4.430 | 0.440 | 0.310 | 0.312 | 1 & 14 | 50 |
| 4-14 | 15 | 17 | 5.370 | 0.440 | 0.310 | 0.312 | 1 & 17 | 50 |
| 4-14 | 20 | 22 | 6.930 | 0.440 | 0.310 | 0.312 | 1 & 22 | 50 |
| 4-14 | 190 | 190 | 60.000 | 0.440 | 0.310 | 0.312 | – | 10 |
| 2-14 | 10 | 12 | 4.120 | 0.500 | 0.380 | 0.340 | 3 & 11 | 50 |
| 2/0-14 | 2 | 3 | 1.750 | 0.750 | 0.560 | 0.601 | 2 | 25 |
| 2/0-14 | 3 | 5 | 2.950 | 0.750 | 0.560 | 0.601 | 2 & 4 | 25 |
| 2/0-14 | 6 | 8 | 4.750 | 0.750 | 0.560 | 0.601 | 1 & 8 | 25 |
| 4-14 | 4 | 6 | 1.940 | 0.440 | 0.310 | 0.312 | 1 & 6 | 100 |
| 4-14 | 5 | 7 | 2.250 | 0.440 | 0.310 | 0.312 | 1 & 7 | 100 |
| 4-14 | 6 | 8 | 2.56 | 0.440 | 0.310 | 0.312 | 1 & 8 | 100 |
| 4-14 | 12 | 14 | 4.430 | 0.440 | 0.310 | 0.312 | 1 & 14 | 50 |
| 4-14 | 13 | 15 | 4.740 | 0.440 | 0.310 | 0.312 | 3 & 13 | 50 |
| 4-14 | 13 | 15 | 4.740 | 0.440 | 0.310 | 0.312 | 6 & 11 | 50 |
| 4-14 | 190 | 190 | 60.000 | 0.440 | 0.310 | 0.312 | – | 10 |
| 2-14 | 3 | 5 | 2.000 | 0.500 | 0.380 | 0.397 | 1 & 5 | 50 |
| 2-14 | 6 | 8 | 3.250 | 0.500 | 0.380 | 0.397 | 2 & 7 | 50 |

*Supplied with screws unassembled.
**Not UL Rated.

MULTIPLE CONNECTORS

# Copper Neutral Connectors

CN SERIES



## FEATURES

- NSi copper neutral connectors are manufactured from high strength pure electrolytic copper tube to ensure both maximum strength and conductivity.
- Plain copper finish.
- Suitable for use with copper conductors only.

## RATINGS

| CAT. NO. | LINE NO. | LINE RANGE | NO. OF CIRCUTS | CIRCUT RANGE | MTG. HOLES | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **CN70-10-1** | 1 | 4-14 | 8 | 6-14 | 2 x .20 | 4.370 | 0.750 | 0.340 | 100 |
| **CN70-14-1** | 1 | 4-14 | 12 | 6-14 | 2 x .20 | 5.940 | 0.750 | 0.340 | 100 |

MULTIPLE CONNECTORS

# Combination Connectors

CB SERIES





## FEATURES

- Multiple combination connectors are made from aluminum and are tin-plated for low contact resistance.
- Suitable for use with both copper and aluminum conductors.
- Each connector contains a combination of 1/0-14 AWG and 6-14 AWG wire holes.
- Economical and compact innovative design and hole spacing.
- Dual rated for use with aluminum and copper cables.

## RATINGS

| CAT. NO. | NUMBER OF CIRCUTS | | LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|
| | 1/0-14 AWG | 6-14 AWG | | |
| **CB-11** | 3 | 8 | 3.500 | 25 |
| **CB-19** | 5 | 14 | 5.810 | 25 |
| **CB-23** | 6 | 17 | 7.000 | 25 |
| **CB-120** | 30 | 90 | 36.000 | 10 |

NEUTRAL CONNECTORS

# Neutral 225A 600 VAC



## FEATURES

- These stacked neutral assemblies offer the ultimate in compact design and performance.
- Wire holes are stacked to minimize width. One-piece construction provides superior mechanical performance.
- Made from high strength 6061T-6 aluminum alloy.
- Options include a 350 MCM main lug and a high strength, glass-filled polyester mounting base for isolated mounting.
- Available in 12 to 42 wire holes (4-14 AWG).

## RATINGS

| CATALOG NO. | FIGURE NO. |
|---|---|
| 1012 | 1 |
| 1012M | 2 |
| 1012B | 3 |
| 1012MB | 4 |
| 1018 | 1 |
| 1018M | 2 |
| 1018B | 3 |
| 1018MB | 4 |
| 1024 | 1 |
| 1024M | 2 |
| 1024B | 3 |
| 1024MB | 4 |
| 1030 | 1 |
| 1030M | 2 |
| 1030B | 3 |
| 1030MB | 4 |
| 1036 | 1 |
| 1036M | 2 |
| 1036B | 3 |
| 1036MB | 4 |
| 1042 | 1 |
| 1042M | 2 |
| 1042B | 3 |
| 1042MB | 4 |

| 1 | 2 |
|---|---|
|  |  |
| 3 | 4 |
|  |  |



| NO. OF 4-14 AWG CIRCUTS | MAIN LUG SIZE | MOUNTING BASE | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 12 | none | no | 2.068 | 0.875 | 1.500 | 1 |
| 12 | 350-6 | no | 2.193 | 1.375 | 1.500 | 1 |
| 12 | none | yes | 2.068 | 2.250 | 2.250 | 1 |
| 12 | 350-6 | yes | 2.193 | 2.750 | 2.250 | 1 |
| 18 | none | no | 3.132 | 0.875 | 1.500 | 1 |
| 18 | 350-6 | no | 3.257 | 1.375 | 1.500 | 1 |
| 18 | none | yes | 3.132 | 2.250 | 2.250 | 1 |
| 18 | 350-6 | yes | 3.257 | 2.750 | 2.250 | 1 |
| 24 | none | no | 4.196 | 0.875 | 1.500 | 1 |
| 24 | 350-6 | no | 4.321 | 1.375 | 1.500 | 1 |
| 24 | none | yes | 4.196 | 2.250 | 2.250 | 1 |
| 24 | 350-6 | yes | 4.321 | 2.750 | 2.250 | 1 |
| 30 | none | no | 5.260 | 0.875 | 1.500 | 1 |
| 30 | 350-6 | no | 5.385 | 1.375 | 1.500 | 1 |
| 30 | none | yes | 5.260 | 2.250 | 2.250 | 1 |
| 30 | 350-6 | yes | 5.385 | 2.750 | 2.250 | 1 |
| 36 | none | no | 6.324 | 0.875 | 1.500 | 1 |
| 36 | 350-6 | no | 6.449 | 1.375 | 1.500 | 1 |
| 36 | none | yes | 6.324 | 2.250 | 2.250 | 1 |
| 36 | 350-6 | yes | 6.449 | 2.750 | 2.250 | 1 |
| 42 | none | no | 7.388 | 0.875 | 1.500 | 1 |
| 42 | 350-6 | no | 7.513 | 1.375 | 1.500 | 1 |
| 42 | none | yes | 7.388 | 2.250 | 2.250 | 1 |
| 42 | 350-6 | yes | 7.513 | 2.750 | 2.250 | 1 |

MULTIPLE CONNECTORS

# Combination Connectors



## FEATURES

- Multiple combination connectors are made from aluminum and are tin-plated for low contact resistance.
- Suitable for use with both copper and aluminum conductors.
- Each connector contains a combination of 1/0-14 AWG and 6-14 AWG wire holes.
- Economical and compact due to innovative design and hole spacing.
- Dual rated for use with aluminum and copper cables.

| CAT. NO. | FIG. |
|---|---|
| 2024 | 1 |
| 2024M | 2 |
| 2024MB | 4 |
| 2030 | 1 |
| 2030M | 2 |
| 2030B | 3 |
| 2030MB | 4 |
| 2036 | 1 |
| 2036M | 2 |
| 2036MB | 4 |
| 2042M | 2 |
| 2042MB | 4 |

## RATINGS

| 1 | 2 |
|---|---|
|  |  |
| 3 | 4 |
|  |  |





| NO. OF 4-14 AWG CIRCUITS | NO. OF 1/0-14 AWG CIRCUITS | MAIN LUG SIZE | MOUNTING BASE | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 20 | 4 | None | No | 4.332 | 1.025 | 1.687 | 1 |
| 20 | 4 | 350-6 | No | 4.457 | 1.525 | 1.687 | 1 |
| 20 | 4 | 350-6 | Yes | 4.457 | 2.900 | 2.437 | 1 |
| 26 | 4 | None | No | 5.244 | 1.025 | 1.687 | 1 |
| 26 | 4 | 350-6 | No | 5.369 | 1.525 | 1.687 | 1 |
| 26 | 4 | None | Yes | 5.244 | 2.400 | 2.437 | 1 |
| 26 | 4 | 350-6 | Yes | 5.369 | 2.900 | 2.437 | 1 |
| 32 | 4 | None | No | 6.156 | 1.025 | 1.687 | 1 |
| 32 | 4 | 350-6 | No | 6.281 | 1.525 | 1.687 | 1 |
| 32 | 4 | 350-6 | Yes | 6.281 | 2.900 | 2.437 | 1 |
| 38 | 4 | 350-6 | No | 7.193 | 1.525 | 1.687 | 1 |
| 38 | 4 | 350-6 | Yes | 7.193 | 2.900 | 2.437 | 1 |

SPLICES AND TAPS

# Non-Metallic Splice & Tap

## NMS, NMT SERIES



| CATALOG NO. |
|---|
| NMS-2 |
| NMS-3 |
| NMT-2 |

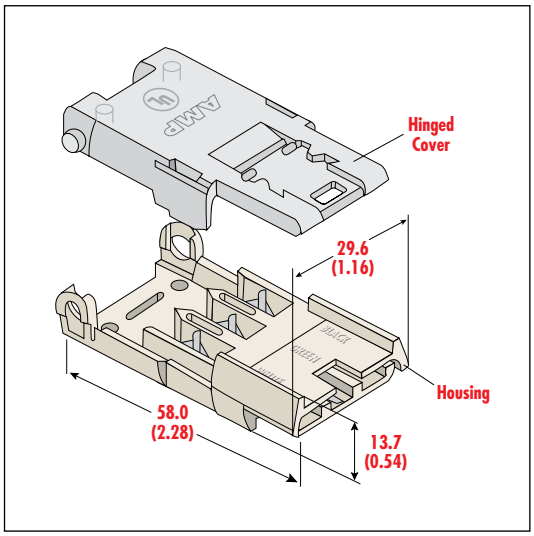
## FEATURES

- The NSi NM Splice & Tap method provides a fast and reliable way to connect 12 and 14 AWG circuits using non-metallic (NM) cable. It eliminates the need for junction boxes, covers, fittings, connectors – and is approved for use in a variety of applications including: residential branch circuits, manufactured housing and pre-fabricated building structures. When adding new circuits in residential applications, NM connectors eliminate both the need to cut into the existing wiring and the extra junction boxes and associated hardware required for the tap connection.
- In factory installations within pre-fabricated structures, the NM connectors eliminate costly time-consuming on-site wiring. As individual modules are joined, splices and taps are simply snapped together easily by assembly crews with no special training or tools.
- Termination is easy. Split the cable, remove the sheathing and cut the splice conductors to length (if necessary). With the tap, individual conductors do not need to be stripped, only exposed. Clear cover installation is done with slip-joint pliers. The installation displacement contacts eliminate the need to strip individual conductors. Simply plug the connectors together and the installation is complete.

## RATINGS

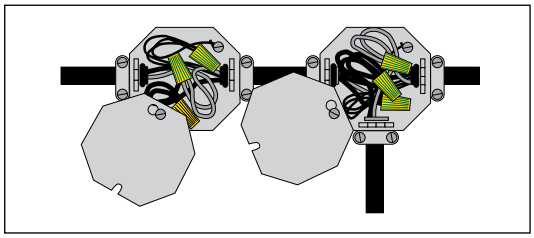
c UL us

### FIG. 1
### NMS -2 (SPLICE)




For splicing 12 or 14 awg solid conductor, 2-conductor cable with ground. Hinged cover makes termination fast and easy. The NMS-2 kit includes everything required to make a two conductor splice.

### CONVENTIONAL TAPPING METHOD



CONNECTORS



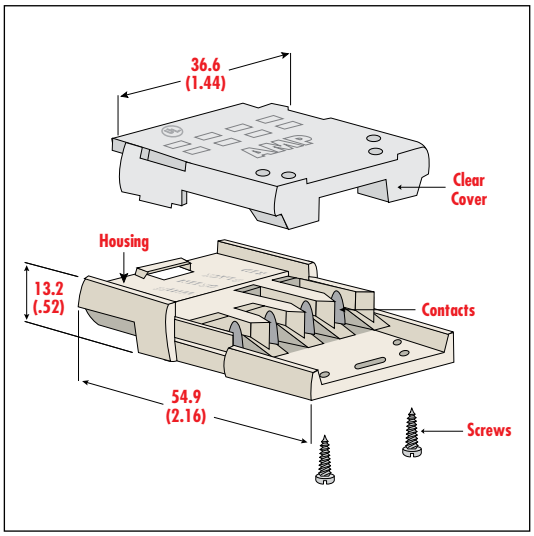
nsi INDUSTRIES





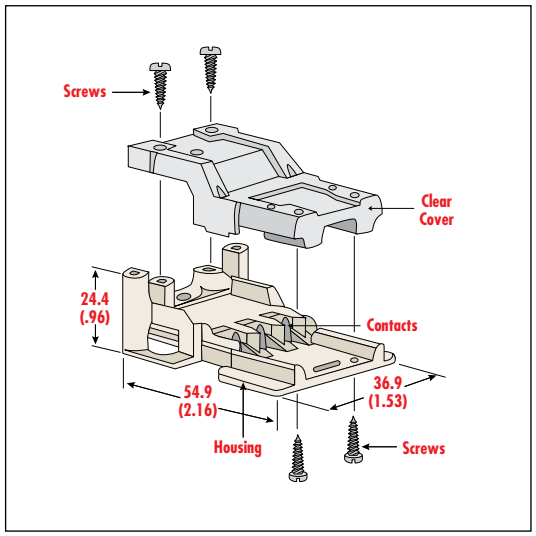
| WIRE RANGE | KIT DESCRIPTION | STD. CTN. QTY. |
|---|---|---|
| 12 – 14 AWG | SPLICE FOR 2-CONDUCTOR CABLE WITH GROUND | 25 |
| 12 – 14 AWG | SPLICE FOR 3-CONDUCTOR CABLE WITH GROUND | 25 |
| 12 – 14 AWG | SPLICE AND TAP KIT FOR 2-CONDUCTOR CABLE | 12 |

## FIG. 2
## NMS - 3 (SPLICE)



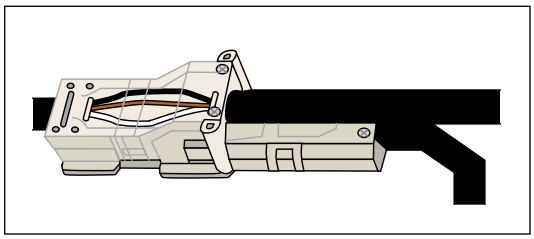

For splicing 12 or 14 awg solid conductor, 3-conductor cable with ground. The NMS-3 kit includes everything required to make a three conductor splice.

## FIG. 3
## NMT - 2 (TAP)




For tapping into 12 or 14 awg solid conductor 2-conductor cable with ground. The NMT-2 kit includes everything required to complete a two conductor tap.

## NSi NM SPLICE & TAP METHOD



CONNECTOR ACCESSORIES

# Transformer Lug Kits Mechanical Set-Screw Types

LK SERIES



## FEATURES

- Terminal lugs are dual rated for use with both copper and aluminum cables.

## RATINGS

UL

| CAT. NO. | TRANSFORMER KVA SIZE |
|---|---|
| LK-1 | 15-37-1/2 1ø |
| | 15-45-3ø |
| LK-2 | 50-75 1ø |
| | 75-112-1/2 3ø |
| LK-3 | 100-167 1ø |
| | 150-300 3ø |
| LK-4 | 500 3ø |
| LK-5 | 15-25 1ø |
| | 15-37 1/2 3ø |
| LK-6 | 37 1/2-50 1ø |
| | 45-75 3ø |
| LK-7 | 225 3ø |
| LK-8 | 225 3ø |
| LK-9 | 300 3ø |
| LK-10 | 400-500 3ø |



| TERMINAL LUGS INCLUDED | | | HARDWARE INCLUDED | | STD. CTN. QTY. |
|---|---|---|---|---|---|
| QTY. | LUG TYPE | WIRE RANGE | QTY. | BOLT SIZE | |
| 8 | 2T | 2-14 | 8 | 1/4-20X3/4 | 1 |
| 4 | 250T | 250 MCM-6 | 8 | 1/4-20X3/4 | 1 |
| 12 | 250T | 250 MCM-6 | 8 | 1/4-20 x 3/4 | 1 |
| 12 | 250T | 250 MCM-6 | 8 | 1/4-20 x 1 3/4 | 1 |
| 3 | 250T | 250 MCM-6 | 3 | 1/4-20 x 3/4 | 1 |
| 22 | 600T | 600 MCM-2 | 16 | 3/8-16 x 2 | 1 |
| 29 | 600T | 600 MCM-2 | 18 | 3/8-16 x 2 | 1 |
| 7 | 0T | 1/0-14 | 7 | 1/4-20 x 1 1/2 | 1 |
| 7 | 0T | 1/0-14 | 7 | 1/4-20 x 1 1/2 | 1 |
| 7 | 250T | 250 MCM-6 | 7 | 5/16-16 x 1 1/2 | 1 |
| 6 | 350T | 350 MCM-6 | 7 | 5/16-16 x 1 1/2 | 1 |
| 3 | 0T | 1/0-14 | 3 | 1/4-20 x 1 | 1 |
| 6 | 2-350T | 350 MCM-6 | 6 | 1/2-13 x 2 | 1 |
| 6 | 350T | 350 MCM-6 | 13 | 3/8-16 x 1 1/2 | 1 |
| 3 | 500T | 500 MCM-4 | 7 | 3/8-16 x 2 | 1 |
| 4 | 2-600T | 600 MCM-2 | 7 | 3/8-16 x 2 | 1 |
| 3 | 2-350T | 350 MCM-6 | 7 | 1/2-13 x 2 | 1 |
| 12 | 500T | 500 MCM-4 | 4 | 1/2-13 x 2 1/2 | 1 |
| 16 | 800T | 800-300 MCM | 11 | 1/2-13 x 2 1/2 | 1 |
| 3 | 2-600T | 600 MCM-2 | 11 | 1/2-13 x 2 1/2 | 1 |

# Tool and Die Charts

## *For Connector Series: L, LN, LNB, GL, GLN, GLNB, SLN, C, SC, SCB*

## COPPER CONNECTORS

### COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART

#### CONNECTOR SERIES: L, LN, LNB, GL, GLN, GLNB, SLN, C, SC, SCB

| COPPER CLASS B/C CONDUCTOR SIZE | COPPER CLASS GHIKM FLEX CONDUCTOR SIZE W/ LB, LNB, GLB, GLNB AND SCB SERIES ONLY | COPPER CLASS DLO CONDUCTOR SIZE W/ LB, LNB, GLB, GLNB AND SCB SERIES ONLY | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE | NSI/GREENLEE DIE | ILSCO DIE | BURNDY DIE |
|---|---|---|---|---|---|---|---|---|
| 8 AWG | - | - | 1 | RED | - | KC12-8 | ILD-1, ILD-21 | U8CRT |
| 6 AWG | - | - | 1 | BLUE | CD2 | KC12-6 | ILD-2, ILD-24 | U5CRT |
| 4 AWG | - | - | 1 | GREY | CD3 | KC12-4 | ILD-3, ILD-29 | U4CRT |
| 3 AWG | #4 FLEX | - | 1 | WHITE | - | KC12-3 | ILD-29 | U3CRT |
| 2 AWG | - | - | 1 | BROWN | CD4 | KC12-2 | ILD-4, ILD-33 | U2CRT |
| 1 AWG | #2 FLEX | - | 1 | GREEN | CD5 | KC12-1 | ILD-4, ILD-37 | U1CRT-1 |
| 1/0 AWG | #1 FLEX | - | 2 | PINK | CD6 | KC12-1/0 | ILD-5, ILD-42 | U25RT |
| 2/0 AWG | 1/0 FLEX | - | 2 | BLACK | CD7 | KC12-2/0 | ILD-6, ILD-45 | U26RT |
| 3/0 AWG | 2/0 FLEX | - | 2 | ORANGE | CD10 | KC12-3/0 | ILD-9, ILD-50 | U27RT |
| 4/0 AWG | 3/0 FLEX | - | 2 | PURPLE | CD12 | KC12-4/0 | ILD-10, ILD-54 | U28RT |
| 250 MCM | 4/0 FLEX | - | 2 | YELLOW | CD14 | KC12-250 | ILD-11, ILD-62 | U29RT |
| 300 MCM | 250 FLEX | - | 2 | WHITE | CD15 | KC12-300 | ILD-12, ILD-66 | U30RT |
| 350 MCM | 250 FLEX | 262.2 | 2 | RED | CD16A | KC12-350 | ILD-13, ILD-71 | U31RT |
| 400 MCM | 300 FLEX | 313.1 | 2 | BLUE | CD17 | KC12-400 | ILD-14, ILD-76 | U32RT |
| 500 MCM | 350 FLEX | 373.7 | 2 | BROWN | CD18 | KC12-500 | ILD-15, ILD-87 | U34RT |
| 600 MCM | 400 FLEX | 444.4 | 2 | GREEN | CD19 | KC12-600 | ILD-16, ILD-94 | U36RT |
| 700 MCM | 500 FLEX | 535.3 | 2 | PINK | CD20 | KC12-700 | ILD-16A, ILD-99 | U38RT |
| 750 MCM | 600 FLEX | 646.6 | 2 | BLACK | CD21 | KC12-750 | ILD-17, ILD-106 | U39RT |
| 1000 MCM | 750 FLEX | 777.7 | 2 | YELLOW | CD23 | - | ILD-18*, ILD-125 | P44RT |
| - | - | - | - | LISTED TOOLS | N1240<br>NSI-12<br>P-750 | HK1240 | ILC-12<br>ILC-12H<br>ILC-15 | Y-35 |

* REQUIRES 15 TON TOOL

## Dieless NSi N12ID

| T&B DIE | HUSKIE DIE | COPPER CLASS B/C EXPANDED WIRE RANGE WHEN INSTALLED WITH NSI N12ID | MIN. # OF CRIMPS REQUIRED |
|---|---|---|---|
| 15520 | - | 8 AWG | 1 |
| 15522 | HT41AT | 6-8 AWG | 1 |
| 15527-CK | HT41AU | 4-6 AWG | 1 |
| - | HT41AV | 3-6 AWG | 1 |
| 15528 | HT41AW | 2-6 AWG | 1 |
| 15513-CK | HT41AX | 1-6 AWG | 1 |
| 15508 | HT41AY | 1/0-6 AWG | 2 |
| 15526 | HT41AZ | 2/0-4 AWG | 2 |
| 15530 | HT41BA | 3/0-2 AWG | 2 |
| 15511 | HT41BC | 4/0-1 AWG | 2 |
| 15510-CK | HT41BE | 250 MCM-1/0 AWG | 2 |
| 15534 | HT41BF | 300 MCM-2/0 AWG | 2 |
| 15514-CK | HT41BJ | 350 MCM-3/0 AWG | 2 |
| 15512 | HT41BK | 400 MCM-4/0 AWG | 2 |
| 15506 | HT41BL | 500 MCM-250 MCM | 2 |
| 15536-CK | HT41BM | 600 MCM-250 MCM | 2 |
| 15505 | HT41BM | 700 MCM-350 MCM | 2 |
| 15515-CK | HT41BP | 750 MCM-500 MCM | 2 |
| 15603* | HT61BU* | - | 2 |
| TBM-15<br>TBM-14M | EP510C | N12ID<br>M-250<br>M-500<br>RDC-1/0 | N12ID<br>M-250<br>M-500<br>RDC-1/0 |

# Tool and Die Charts

## *For Connector Series: CT, CTH*

## COPPER CONNECTORS

### COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART

#### CONNECTOR SERIES: CT, CTH

| COPPER CLASS B/C CONDUCTOR SIZE | MAIN / RUN WIRE RANGE | TAP / BRANCH WIRE RANGE | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE | NSI TOOL |
|---|---|---|---|---|---|---|
| CT-101 | 12 SOL-12 STR | 14 SOL-12 STR | 1 | RED | BARE 8 | M-250 |
| CT-102 | 10 STR<br>8 STR | 10 STR<br>12 STR | 1 | LIGHT BLUE | BARE 4 | RDC-1/0 |
| CT-103 | 6 STR<br>8 STR | 10-12 STR<br>8-10 STR | 1 | GREY | BARE 4 | RDC-1/0 |
| CT-104 | 4 STR<br>6 STR | 8-12 STR<br>6-8 STR | 1 | BROWN | BARE 2 | RDC-1/0 |
| CT-105 | 4 STR<br>4-5 STR | 6-12 STR<br>6-5 STR | 1 | GREEN | INS 2 | RDC-1/0 |
| CT-106 | 4 STR<br>4 STR | 4 STR<br>4 STR | 1 | PINK | INS 2 | RDC-1/0 |
| CT-107 | 1 STR<br>2 STR<br>4 STR | 4 STR<br>4 STR<br>4 STR | 1 | BLACK | BG | OD-59 |
| CT-108 | 1/0 STR<br>1 STR<br>2 STR | 4 STR<br>4 STR<br>2 STR | 1 | ORANGE | KC12-2/0 | N1240 |
| CT-109 | 2/0 STR<br>1/0 STR<br>1/0 STR | 4 STR<br>2 STR<br>1-2 STR | 2 | PURPLE | KC12-4/0 | N1240 |
| CT-110 | 3/0 STR<br>2/0 STR<br>1/0 STR | 4 STR<br>4 STR<br>4 STR | 2 | YELLOW | KC12-250 | N1240 |
| CTH-111 | 1 STR<br>1/0 STR<br>2/0 STR<br>3/0-4/0 STR<br>4/0 STR | 1 STR<br>1/0-2 STR<br>2/0-4 STR<br>1/0-6 STR<br>1.8 STR | 2 | BLUE | KC12-250 | N1240 |
| CTH-112 | 2/0 STR<br>3/0 STR<br>4/0 STR<br>250 STR | 2/0-1 STR<br>3/0-2 STR<br>4/0-4 STR<br>1/0-8 STR | 2 | BROWN | KC12-400 | N1240 |
| CTH-113 | 2/0 STR<br>3/0 STR<br>4/0 STR<br>250 STR<br>300 STR | 2/0-1 STR<br>3/0-2 STR<br>4/0-4 STR<br>3/0-6 STR<br>2/0-8 STR | 2 | PINK | KC12-400 | N1240 |
| CTH-114 | 4/0 STR<br>250 STR<br>300 STR<br>350 STR | 4/0-2/0 STR<br>250-1 STR<br>4/0-4 STR<br>3/0-6 STR | 2 | BLACK | KC12-500 | N1240 |
| CTH-115 | 250 STR<br>300 STR<br>350 STR<br>400 STR<br>450 STR<br>500 STR | 250 STR<br>300-3/0 STR<br>350-1/0 STR<br>300-2 STR<br>250-4 STR<br>250-6 STR | 2 | YELLOW | KC12-750 | N1240 |
| CTH-116 | 350 STR<br>400 STR<br>450 STR<br>500 STR | 350-4/0 STR<br>400-2/0 STR<br>450-1 STR<br>500-2 STR | 2 | WHITE | KC12-750 | N1240 |

## COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART

### CONNECTOR SERIES: CT, CTH

| COPPER CLASS B/C CONDUCTOR SIZE | MAIN / RUN WIRE RANGE | TAP / BRANCH WIRE RANGE | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE | NSI TOOL |
|---|---|---|---|---|---|---|
| CTH-117 | 750-500 STR<br>750 STR | 4/0-6 STR<br>750-4/0 STR | 4 | - | T&B 15603 | T&B TBM-15 |
| CTH-46 | 4 STR | 6 STR | 1 | - | KC12-1/0 | N1240 |
| CTH-44 | 6 STR<br>4 STR | 4 STR<br>4 STR | 1 | - | KC12-1/0 | N1240 |
| CTH-24 | 2 SOL<br>2 STR | 8 SOL<br>4 STR | 1 | - | C | OD581 |
| CTH-22 | 2 SOL<br>2 STR | 2 SOL<br>2 STR | 1 | - | C | OD581 |
| CTH-2020 | 1/0 STR<br>2/0 STR | 1/0 STR<br>2/0 STR | 1 | - | 0 | OD581 |
| CTH-4020 | 3/0 STR<br>4/0 STR | 1/0 STR<br>2/0 STR | 1 | - | D3 | OD581 |
| CTH-4040 | 3/0 STR<br>4/0 STR | 3/0 STR<br>4/0 STR | 1 | - | D3 | OD581 |

## ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART

### CONNECTOR SERIES: AL, ALN, ASCT

| ALUMINUM CLASS B/C CONDUCTOR SIZE | MIN. # OF CRIMPS REQUIRED | ALUMINUM COLOR CODE | NSI DIE | NSI/GREENLEE DIE | ILSCO DIE | BURNDY DIE | T&B DIE | HUSKIE DIE |
|---|---|---|---|---|---|---|---|---|
| 8 AWG | 1 | BLUE | CD2 | KA12-8 | ILD-2 | U8CABT | 15522 | HT41GL |
| 6 AWG | 1 | GREY | CD3 | KA12-6 | ILD-3 | U6CABT | 15527-CK | HT41GE |
| 4 AWG | 1 | GREEN | CD5A | KA12-4 | ILD-4 | U4CABT | 15313-CK | HT41GM |
| 2 AWG | 1 | PINK | CD6A | KA12-2 | ILD-7 | U2CABT | 15508 | HT41GF |
| 1 AWG | 1 | YELLOW | - | KA12-1 | ILD-7 | U1CABT | 15526 | - |
| 1/0 AWG | 2 | TAN | CD9 | KA12-1/0 | ILD-8 | U25ART | 15530 | HT41EX |
| 2/0 AWG | 2 | OLIVE | CD11 | KA12-2/0 | ILD-10 | U26ART | 15511 | HT41EY |
| 3/0 AWG | 2 | RUBY | CD13 | KA12-3/0 | ILD-10 | U27ART | 15532-CK | HT41GW |
| 4/0 AWG | 2 | WHITE | CD15A | KA12-4/0 | ILD-12 | U28ART | 15534 | HT41EZ |
| 250 MCM | 2 | RED | CD16A | KA12-250 | ILD-13 | U29ART | 15514-CK | HT41FW |
| 300 MCM | 2 | BLUE | CD17A | KA12-300 | ILD-14 | U30ART | 15512 | HT41GZ |
| 350 MCM | 2 | BROWN | CD18A | KA12-350 | ILD-14 | U31ART | 15506 | HT41FA |
| 400 MCM | 2 | GREEN | CD19A | KA12-400 | ILD-16 | U32ART | 15536-CK | HT41HH |
| 500 MCM | 2 | PINK | CD20 | KA12-500 | ILD-16A | U34ART | 15505 | HT41FB |
| 600 MCM | 2 | BLACK | CD21A | KA12-600 | ILD-17 | U36ART | - | HT41HG |
| 750 MCM | 2 | RED | CD22 | KA12-750 | ILD-18 | U39ART-2 | 15504 | HT41LJ |
| 1000 MCM | 2 | BROWN | - | - | ILD-P302* | P44ART* | 15602 | - |
| - | - | LISTED TOOLS | N1240<br>NSI-12<br>P-750 | HK1240 | ILC-12<br>ILC-12H<br>ILC-15 | Y-35 | TBM-15<br>TBM-14M | EP510C |

* REQUIRES 15 TON TOOL

## Dieless NSi N12ID

| COPPER CLASS B/C EXPANDED WIRE RANGE WHEN INSTALLED WITH NSI N12ID | MIN. # OF CRIMPS REQUIRED |
|---|---|
| 8 AWG | 1 |
| 6-8 AWG | 1 |
| 4-6 AWG | 1 |
| 2-6 AWG | 1 |
| 1-6 AWG | 1 |
| 1/0-6 AWG | 2 |
| 2/0-4 AWG | 2 |
| 3/0-2 AWG | 2 |
| 4/0-1 AWG | 2 |
| 250 MCM-1/0 AWG | 2 |
| 300 MCM-2/0 AWG | 2 |
| 350 MCM-3/0 AWG | 2 |
| 400 MCM-4/0 AWG | 2 |
| 500 MCM-250 MCM | 2 |
| 600 MCM-250 MCM | 2 |
| 750 MCM-500 MCM | 2 |
| - | 2 |
| N12ID<br>M-250<br>M-500<br>RDC-1/0 | N12ID<br>M-250<br>M-500<br>RDC-1/0 |

## ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART

### CONNECTOR SERIES: PT, PTO, PTS

| ALUMINUM CONDUCTOR ONLY PT SERIES | ALUMINUM CONDUCTOR ONLY PT SERIES | ALUMINUM OR COPPER CONDUCTOR PTS & PTO SERIES | ALUMINUM OR COPPER CLASS B/C CONDUCTOR SIZE PTS & PTO SERIES | PIN SIZE | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE | NSI/GREENLEE DIE |
|---|---|---|---|---|---|---|---|---|
| - | - | **PTS6** | 6 AWG | 4 AWG | 1 | TAN | CD9 | KA12-1/0 |
| **PT6** | 6 AWG | - | - | 8 AWG | 1 | - | BG 52 | - |
| - | - | **PTS4** | 4 AWG | 4 AWG | 1 | TAN | CD9 | KA12-1/0 |
| **PT4** | 4 AWG | - | - | 6 AWG | 1 | - | BG 52 | - |
| - | - | **PTS2** | 2 AWG | 4 AWG | 1 | TAN | CD9 | KA12-1/0 |
| **PT2** | 2 AWG | - | - | 4 AWG | 1 | - | BG 52 | - |
| - | - | **PTS1** | 1 AWG | 3 AWG | 1 | TAN | CD9 | KA12-1/0 |
| **PT1** | 1 AWG | - | - | 3 AWG | 1 | - | BG 52 | - |
| - | - | **PTS1/0** | 1/0 AWG | 2 AWG | 2 | TAN | CD9 | KA12-1/0 |
| **PT1/0** | 1/0 AWG | - | - | 2 AWG | 2 | RED | CD16A | KC12-350 |
| - | - | **PTS2/0 PTO2/0** | 2/0 AWG | 1 AWG | 2 | WHITE | CD15A | KA12-4/0 |
| **PT2/0** | 2/0 AWG | - | - | 1 AWG | 2 | RED | CD16A | KC12-350 |
| - | - | **PTS3/0 PTO3/0** | 3/0 AWG | 1/0 AWG | 2 | WHITE | CD15A | KA12-4/0 |
| **PT3/0** | 3/0 AWG | - | - | 1/0 AWG | 2 | RED | CD16A | KC12-350 |
| - | - | **PTS4/0 PTO4/0** | 4/0 AWG | 2/0 AWG | 2 | WHITE | CD15A | KA12-4/0 |
| **PT4/0** | 4/0 AWG | - | - | 2/0 AWG | 2 | RED | CD16A | KC12-350 |
| - | - | **PTS250 PTO250** | 250 MCM | 3/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| **PT250** | 250 MCM | - | - | 3/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| - | - | **PTS300 PTO300** | 300 MCM | 4/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| **PT300** | 300 MCM | - | - | 4/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| - | - | **PTS350 PTO350** | 350 MCM | 250 MCM | 2 | BROWN | CD18A | KA12-350 |
| **PT350** | 350 MCM | - | - | 4/0 AWG | 2 | BROWN | CD18A | KA12-350 |
| - | - | **PTS400 PTO400** | 400 MCM | 300 MCM | 2 | PINK | CD20 | KA12-500 |
| **PT400** | 400 MCM | - | - | 250 MCM | 2 | PINK | CD20 | KA12-500 |
| - | - | **PTS500 PTO500** | 500 MCM | 350 MCM | 2 | PINK | CD20 | KA12-500 |
| **PT500** | 500 MCM | - | - | 350 MCM | 2 | PINK | CD20 | KA12-500 |
| - | - | **PTS600 PTO600** | 600 MCM | 400 MCM | 2 | YELLOW | CD23 | - |
| **PT600** | 600 MCM | - | - | 350 MCM | 2 | YELLOW | CD23 | - |
| - | - | **PTS750 PTO750** | 750 MCM | 500 MCM | 2 | YELLOW | CD23 | - |
| **PT750** | 750 MCM | - | - | 500 MCM | 2 | YELLOW | CD23 | - |
| - | - | - | - | - | - | LISTED TOOLS | N1240 NSI-12 P-750 | HK1240 |

* REQUIRES 15 TON TOOL

| | ILSCO DIE | BURNDY DIE | T&B DIE | HUSKIE DIE |
|---|---|---|---|---|
| | ILD-8 | U25ART | 15530 | HT41EX |
| | - | - | - | - |
| | ILD-8 | U25ART | 15530 | HT41EX |
| | - | - | - | - |
| | ILD-8 | U25ART | 15530 | HT41EX |
| | - | - | - | - |
| | ILD-8 | U25ART | 15530 | HT41EX |
| | - | - | - | - |
| | ILD-8 | U25ART | 15530 | HT41EX |
| | ILD-13, ILD-71 | U31RT | 15514-CK | HT41BJ |
| | ILD-12 | U28ART | 15534 | HT41EZ |
| | ILD-13, ILD-71 | U31RT | 15514-CK | HT41BJ |
| | ILD-12 | U28ART | 15534 | HT41EZ |
| | ILD-13, ILD-71 | U31RT | 15514-CK | HT41BJ |
| | ILD-12 | U28ART | 15534 | HT41EZ |
| | ILD-13, ILD-71 | U31RT | 15514-CK | HT41BJ |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-14 | U31ART | 15506 | HT41FA |
| | ILD-16A | U34ART | 15505 | HT41FB |
| | ILD-16A | U34ART | 15505 | HT41FB |
| | ILD-16A | U34ART | 15505 | HT41FB |
| | ILD-16A | U34ART | 15505 | HT41FB |
| | ILD-18*, ILD-125 | P44RT | 15603* | HT61BU* |
| | ILD-18*, ILD-125 | P44RT | 15603* | HT61BU* |
| | ILD-18*, ILD-125 | P44RT | 15603* | HT61BU* |
| | ILD-18*, ILD-125 | P44RT | 15603* | HT61BU* |
| | ILC-12<br>ILC-12H<br>ILC-15 | Y-35 | TBM-15<br>TBM-14M | EP51OC |

**ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART**

**CONNECTOR SERIES: WRD (H-Taps)**

| PART NUMBER | DIE | # OF INDENTS W/ MECHANICAL TOOL | # OF INDENTS W/ HYDRAULIC TOOL |
|---|---|---|---|
| WRD9 | 5/8 BG | 3 | - |
| WRD 139 | O | 4 | 2 |
| WRD 149 | O | 5 | 2 |
| WRD 159 | O | 4 | 2 |
| WRD 179 | O | 5 | 2 |
| WRD 189 | O | 5 | 2 |
| WRD 199 | O | 5 | 2 |
| WRD 219 | D | 5 | 2 |
| WRD 259 | D | 5 | 2 |
| WRD 279 | D | 5 | 2 |
| WRD 289 | D | 5 | 2 |
| WRD 299 | D | 4 | 2 |
| WRD 359 | D | 4 | 2 |
| WRD 369 | D | 5 | 2 |
| WRD 379 | D | 5 | 2 |
| WRD 389 | D | 6 | 2 |
| WRD 399 | D | 7 | 3 |
| WRD 419 | D | 7 | 3 |






# TOOLS & HARDWARE

# Hydraulic Compression Tools



## DIELESS HYDRAULIC CRIMPING TOOL

c UL us

- Dieless indent style crimping head does not require interchangeable crimping dies.
- Flip-open Crimping head rotates 350 degrees to get into tight locations.
- Two-speed pump provides rapid crimping cycle time.
- Lightweight and strong fiberglass handles.
- Comes with a molded carrying case.
- Copper: 4AWG-1000kcmil (MCM).
- Aluminum: 6AWG-1000kcmil (MCM).
- UL and cUL Listed*



| CAT. NO. | DESCRIPTION | LENGTH (IN) | WEIGHT (LBS) | STD. CTN. QTY. |
|---|---|---|---|---|
| **N12ID** | Dieless Hydraulic Crimping Tool | 26 | 15 | 1 |

## 12 TON HYDRAULIC CRIMPING TOOL

c UL us

- N1240 with 1.65 in (42mm) opening.
- Accepts KC12, KA12 and KD12 crimping dies as well as industry "U" style dies.
- New head design results in lower weight and improved durability – tested to 50,000 crimp cycles.
- Two-speed pump to reduce cycle time.
- Ram automatically retracts when crimp cycle is complete.
- Crimping heads rotate 350 degrees.
- Smaller and lighter than most tools. Includes carrying case.
- N1240 - 8 AWG to 750 kcmil copper and aluminum color-coded lugs and splices.
- UL and cUL Listed*



| CAT. NO. | DESCRIPTION | CRIMPING FORCE (IN) | LENGTH (IN) | WEIGHT (LBS) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **N1240** | 12 Ton hydraulic Crimping Tool, 1.65 in. opening. | 24,000 | 21-1/2 | 12.2 | 1 |

## CROSS REFERENCE GUIDE

| NSI | GREENLEE | BURNDY | THOMAS & BETTS | ILSCO | HUSKIE | PANDUIT | BLACKBURN | PENN-UNION |
|---|---|---|---|---|---|---|---|---|
| **N1240** | KC12, KD12, U-Style | U | 15500 Series | ILD | HT41 | CD-920 | B, H | T |

*UL and cUL classified with Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union®, Tyco® color coded connectors.

The products listed above are registered trademarks of Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®Thomas & Betts®, Penn-Union® and Tyco®.

# TOOLS
# Crimping Dies
## KA & KC SERIES





| CAT. NO. | DESCRIPTION | ALUMINUM COLOR CODE | CAT. NO. | DESCRIPTION | COPPER COLOR CODE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **KA12-8*** | 8 AWG, Aluminum | BLUE | **KC12-8*** | 8 AWG, Copper | RED | 1 |
| **KA12-6*** | 6 AWG, Aluminum | GREY | **KC12-6*** | 6 AWG, Copper | BLUE | 1 |
| **KA12-4*** | 4 AWG, Aluminum | GREEN | **KC12-4*** | 4 AWG, Copper | GREY | 1 |
| **KA12-2*** | 2 AWG, Aluminum | PINK | **KC12-2*** | 2 AWG, Copper | BROWN | 1 |
| **KA12-1*** | 1 AWG, Aluminum | GOLD | **KC12-1*** | 1 AWG, Copper | GREEN | 1 |
| **KA12-1/0*** | 1/0 AWG, Aluminum | TAN | **KC12-1/0*** | 1/0 AWG, Copper | PINK | 1 |
| **KA12-2/0*** | 2/0 AWG, Aluminum | OLIVE | **KC12-2/0*** | 2/0 AWG, Copper | BLACK | 1 |
| **KA12-3/0*** | 3/0 AWG, Aluminum | RUBY | **KC12-3/0*** | 3/0 AWG, Copper | ORANGE | 1 |
| **KA12-4/0*** | 4/0 AWG, Aluminum | WHITE | **KC12-4/0*** | 4/0 AWG, Copper | PURPLE | 1 |
| **KA12-250*** | 250 MCM, Aluminum | RED | **KC12-250*** | 250 MCM, Copper | YELLOW | 1 |
| **KA12-300*** | 300 MCM, Aluminum | BLUE | **KC12-300*** | 300 MCM, Copper | WHITE | 1 |
| **KA12-350*** | 350 MCM, Aluminum | BROWN | **KC12-350*** | 350 MCM, Copper | RED | 1 |
| **KA12-400*** | 400 MCM, Aluminum | GREEN | **KC12-400*** | 400 MCM, Copper | BLUE | 1 |
| **KA12-500*** | 500 MCM, Aluminum | PINK | **KC12-500*** | 500 MCM, Copper | BROWN | 1 |
| **KA12-600*** | 600 MCM, Aluminum | BLACK | **KC12-600*** | 600 MCM, Copper | GREEN | 1 |
| **KA12-750*** | 750 MCM, Aluminum | YELLOW | **KC12-750*** | 750 MCM, Copper | BLACK | 1 |

## CRIMPING DIE CARRYING CASE



| CAT. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|
| **01082** | Crimping Die Carrying Case, 15 Pairs | 1 |

*UL and cUL classified with Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union®, Tyco® color coded connectors.

The products listed above are registered trademarks of Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®Thomas & Betts®, Penn-Union® and Tyco®.

TOOLS

# Hydraulic Die & Battery-Operated Die Type Crimping



## HYDRAULIC DIES

- **12-Ton Compression Tool for U-Type Dies.**
- Delivers 12 tons of hydraulic force.
- 1/2" jaw opening for large conductors and taps.
- Automatic two-speed pump action for rapid ram advancement.
- Fast ram release with twist of handle.
- 180° head rotation.
- Accepts all standard U-type dies.

| CAT. NO. | WIRE RANGE AL-CU | | LENGTH (IN) |
|---|---|---|---|
| | MAX. | MIN. | |
| **NSI-12** | 750 MCM | 8 STR | 23 |

## POWER 750



- 14.6 tons, 1.65" jaw opening for U-type dies.
- Powerful 14.4 Volt battery crimper.
- High power Ni-Cad battery.
- 180° head rotation.
- Reinforced molded nylon body.
- Pressure release button.
- Switch-protected against accidental operation.
- Battery condition display.
- Balanced tool and sculptured body for greater control.
- Ergonomically designed center grip handle.
- 10,000 PSI rated operating pressure.
- Includes steel carrying case, shoulder strap, spare battery and battery charger.
- Accepts all standard U-type dies.

| CAT. NO. | WIRE RANGE AL-CU | | LENGTH (IN) |
|---|---|---|---|
| | MAX. | MIN. | |
| **P-750** | 750 MCM | 8 STR | 16.5 |

# U-Type Compression Dies





| CAT. NO. | DIE INDEX NO. | NSI TOOL DIE INDEX | T&B TOOL DIE INDEX | ILSCO TOOL DIE INDEX | HUSKIE TOOL DIE INDEX | BURNDY TOOL DIE INDEX | ALUMINUM COLOR CODE | COPPER LUGS AND SPLICES | WIRE SIZE ALUM. LUGS AND SPLICES | BI-METALLIC PIN TERMINALS |
|---|---|---|---|---|---|---|---|---|---|---|
| **CD2** | 7/374 | AT | 24 | ILD-2 | AT | 7 | BLUE | 6 | 8 | – |
| **CD3** | 8/346 | AU | 29 | ILD-3 | AU | 8 | GREY | 4 | 6 | – |
| **CD4** | 10 | AW | 33 | ILD-4 | AW | 10 | BROWN | 2 | – | – |
| **CD5A** | 375 | GM | 3 | ILD-4 | GM | 375 | GREEN | 1 | 4 | – |
| **CD6A** | 348 | GF | 42H | ILD-5 | GF | 348 | PINK | 1/0 | 2 | – |
| **CD7** | 13 | AZ | 45 | ILD-6 | AZ | 13 | BLACK | 2/0 | – | – |
| **CD9** | 296 | EX | 50 | ILD-8 | EX | 296 | TAN | – | 1/0 | – |
| **CD10** | 14 | BA | 50 | ILD-9 | BA | 14 | ORANGE | 3/0 | – | 6, 4, 2, 1 |
| **CD11** | 297 | EY | 54H | – | EY | 297 | OLIVE | – | 2/0 | – |
| **CD12** | 15 | BC | 54H | ILD-10 | BC | 15 | PURPLE | 4/0 | – | – |
| **CD13** | 467 | GW | 60 | – | GW | 467 | RUBY | – | 3/0 | – |
| **CD14** | 16 | BE | 62 | ILD-11 | BE | 16 | YELLOW | 250 MCM | – | – |
| **CD15** | 17 | BF | 66 | ILD-12 | BF | 17 | WHITE | 300 MCM | – | – |
| **CD15A** | 298 | EZ | 66 | ILD-12 | EZ | 298 | WHITE | 300 MCM | 4/0 | – |
| **CD16** | 18 | BJ | 71H | ILD-13 | BJ | 18 | RED | 350 MCM | – | – |
| **CD16A** | 324 | FW | 71H | ILD-13 | FW | 324 | RED | 350 MCM | 250 MCM | 1/0, 2/0, 3/0, 4/0 |
| **CD17** | 19 | BK | 76 | ILD-14 | BK | 19 | BLUE | 400 MCM | – | – |
| **CD17A** | 470 | BK | 76 | ILD-14 | BK | 470 | BLUE | 400 MCM | 300 MCM | – |
| **CD18** | 20 | BL | 87H | ILD-15 | BL | 20 | BROWN | 500 MCM | – | – |
| **CD18A** | 299 | FA | 87H | – | FA | 299 | BROWN | 500 MCM | 350 MCM | 250, 300, 350, MCM |
| **CD19** | 22 | HH | 94H | ILD-16 | HH | 472 | GREEN | 600 MCM | – | – |
| **CD19A** | 472 | BM | 94H | ILD-16 | BM | 22 | GREEN | 600 MCM | 400 MCM | – |
| **CD20** | 300 | FB | 99H | ILD-16A | FB | 300 | PINK | – | 500 MCM | 400, 500 MCM |
| **CD21** | 24 | BP | 106H | ILD-17 | BP | 24 | BLACK | 750 MCM | – | – |
| **CD21A** | 743 | BP | 106H | ILD-17 | BP | 473 | BLACK | 750 MCM | 600 MCM | – |
| **CD23** | 936 | LJ | 115H | – | LJ | 936 | YELLOW | – | 750 MCM | 600, 750 MCM |

TOOLS

# Mechanical Crimpers & Tools, Ratchet Drive Crimpers



## FEATURES

### 1. MECHANICAL SINGLE-INDENT LUG CRIMPERS

- Manually operated single-indent compressor tool
- Wire Range: CU-250 MCM to 8 AWG and AL-4/0 AWG to 8 AWG.
- Requires no dies.

### 2. MECHANICAL SINGLE-INDENT LUG CRIMPERS

- Extendable handle design provides increased leverage and allows you to crimp connectors up to 500 MCM.
- Requires no dies.

### 3. MECHANICAL TOOL

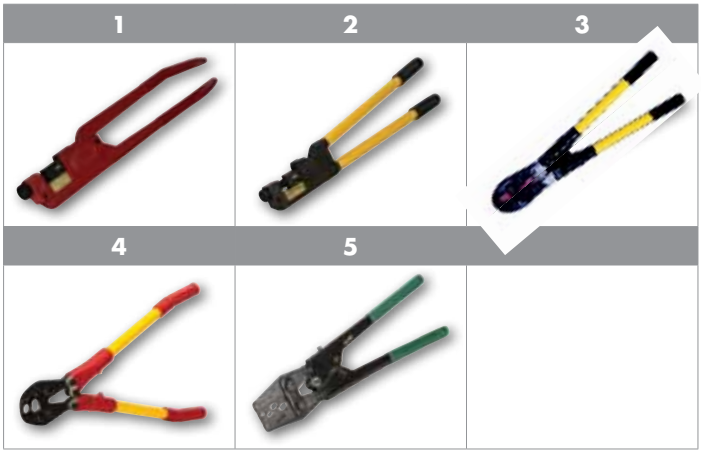
- With 5/8" nose die
- For copper and aluminum.

### 4. MECHANICAL TOOL

- With 5/8" nose die.
- For copper and aluminum.

### 5. RACHET-DRIVE CRIMPERS

- For non-insulated terminals from 6 to 1/0 AWG and insulated terminals from 22 to 8 AWG.
- Rugged, compact and lightweight.
- Requires minimum effort due to ratchet action, ensuring an excellent crimp every time.




| CAT. NO. | FIG. NO. | DESCRIPTION |
|---|---|---|
| **M-250** | 1 | Mechanical Crimper Up To 250 MCM |
| **M-500** | 2 | Mechanical Crimper Up To 500 MCM |
| **OD58** | 3 | Mechanical Crimper For WR Series/H-tap Connectors |
| **OD581** | 3 | Mechanical Crimper For WR Series/H-tap Connectors |
| | | With Fibreglass Handles & 5/8" Nose Die. Output: 4.5 Tons. |
| **OD59** | 4 | Mechanical Crimper For Wr Series/H-Tap Connectors |
| | | Fiberglass Handles And 'O' And 'D' Nose Dies. Output: 4.5 Tons. |
| **RDC 1/0** | 5 | Ratchet Drive Crimper – 6-1/0 AWG Uninsulated, 22-8 AWG Insulated |

| INSERT DIES FOR OD581 AND OD59 | |
|---|---|
| CAT. NO. | DESCRIPTION |
| **OJB** | 'O' die for OD581 |
| **DBL** | 'D' die for OD581 |
| **BY37C** | 840 red for OD581 |
| **U-BG** | U-BG die for OD59 |

TOOLS

# Manual & Ratchet-Drive Cable Cutters

## FOR COPPERS AND ALUMINUM CABLES





## MANUAL CABLE CUTTERS

- Rugged, lightweight manual cable cutters available in three sizes to handle all sizes of cable.
- Replacement blades are available for CCM-500 and CCM-1000.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

| CAT. NO. | FIG. NO. | CABLE CAPACITY | FOR USE WITH | MAX. INSUL. DIA. | LENGTH (IN) |
|---|---|---|---|---|---|
| **CCM-350** | 1 | 350 MCM | Copper & Aluminum | 1.25 | 16 |
| **CCM-500** | 2 | 500 MCM | Copper & Aluminum | 1.25 | 21 |
| **CCM-1000** | 3 | 1000 MCM | Copper & Aluminum | 1.90 | 32 |
| **CCM-500RB** | | | Replacement Blades For CCM-500 | | |
| **CCM-1000RB** | | | Replacement Blades For CCM-1000 | | |

## RATCHET-DRIVE CABLE CUTTERS

- Fine quality tools crafted for cutting ease, minimum cable distortion and long life.
- Rugged, compact and lightweight.
- High quality steel blades offer excellent cutting-edge performance.
- Handles are made from fiberglass.
- Replacement blades and handles are available.



| 4 | 5 |
|---|---|
|  |  |
| **6** | **7** |
|  |  |

| CAT. NO. | FIG. NO. | CABLE CAPACITY | FOR USE WITH | MAX. INSUL. DIA. | LENGTH (IN) |
|---|---|---|---|---|---|
| **CCR-350** | 4 | 350 MCM | Copper & Aluminum | 1.20 | 10 |
| **CCR-750** | 5 | 500 MCM | Copper & Aluminum | 1.40 | 20 |
| **CCR-1000** | 6 | 1000 MCM | Copper & Aluminum | 2.38 | 20 |
| **CCR-750 RB** | 7 | | Replacement Blades For CCR-750 | | |

TOOLS

# Steel Fishtapes & Conduit Benders

FTS , CB & CBH SERIES




## STEEL FISHTAPES

- Extremely flexible and durable flat spring steel.
- Stiffer construction is excellent for long runs.
- Looped end for attaching wires.
- Heavy-duty housing withstands rough conditions.
- High visibility yellow makes fish tape easy to locate.
- Viewing holes to show remaining tape.
- Handle slides through base to reel tape easily.
- 500lbs. maximum tape strength.

| CAT. NO. | DESCRIPTION | LENGTH (FT) | END TYPE |
|---|---|---|---|
| **FTS25** | Flat Spring Steel Fishtape | 25 | Torpedo-Style |
| **FTS50** | 1/8" Steel Fishtape c/w handle | 50 | Formed hook |
| **FTS100** | Steel Fishtape, Reel and Winder | 100 | Formed hook |
| **FTS120** | 1/8" Steel Fishtape c/w handle | 120 | Formed hook |
| **FTS200** | 1/8" Steel Fishtape c/w handle | 200 | Formed hook |

## CONDUIT BENDERS

- All NSi conduit benders have cast in-angle indicators with raised bending points of reference to aid the installer.
- The bodies are aluminum die cast which are lightweight yet strong enough for everyday use.
- Handles are tough steel construction and have a black powder coat finish that is textured for better gripping; flared handle corrects overbends.
- Aluminum die cast bender.
- Handles are made of steel.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | |
|  |  | |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | TYPE | HANDLE SIZE | HANDLE LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **CB100** | 1 | For 1" EMT or 3/4" Rigid, 8 Degree Inside Radius | Aluminum Die Cast | – | – | 12 |
| **CB75** | 2 | For 3/4" EMT or 1/2" Rigid, 6 Degree Inside Radius | Aluminum Die Cast | – | – | 12 |
| **CB50** | 3 | For 1/2" EMT, 5 Degree Inside Radius | Aluminum Die Cast | – | – | 12 |
| **CB50WH** | 4 | For 1/2" EMT, 5 Degree Inside Radius | Aluminum Die Cast With Handles | 3/4 x 38 | – | 12 |
| **CB75WH** | 4 | For 3/4" EMT or 1/2" Rigid, 6 Degree Inside Radius | Aluminum Die Cast With Handles | 3/4 x 38 | – | 12 |
| **CB100WH** | 4 | For 1" EMT or 3/4" Rigid, 8 Degree Inside Radius | Aluminum Die Cast With Handles | 1" x 44 | – | 12 |
| **CBH75** | 5 | 3/4" Diameter, for use with CB50 and CB75 | Handles only | 3/4 | 38 | 12 |
| **CBH100** | 5 | 1" Diameter, for use with CB100 | Handles only | 1 | 44 | 12 |

TOOLS

# Precision Wire Strippers & Insulated Miniterm Tool

## TL, NH SERIES



## FEATURES

- Finest heat-treated spring steel construction with precision-ground cutting edges.
- Double-Insulated cushioned handles.
- Strip solid or stranded copper or aluminum wires.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **ADJUSTABLE 10-24 AWG 5" WIRE STRIPPER** | | | |
| **TL-ADJ5** | 1 | Adjustment wheel sets wire stripper for 8 wire gauge sizes from 10 to 24 AWG. Wire cutter (CU/AL). Wire looper. Heat treated spring steel. Cushioned double insulated handle. | 1 |
| **10-20 AWG 6" WIRE STRIPPER** | | | |
| **TL-WS6** | 2 | Six precision-cut wire stripping holes: 10, 12, 14, 16, 18, 20 AWG. Pliers nose. Wire cutter (CU/AL). Wire looper. Spring and lock. Heat treated spring steel. Cushioned double insulated handle. | 1 |
| **10-20 AWG 8 1/2" 6-FUNCTION ELECTRICIAN'S TOOL** | | | |
| **TL-6-1** | 3 | Six precision-cut wire stripping holes: 10, 12, 14, 16, 18, 20 AWG. Pliers nose. Wire cutter (CU/AL). Wire looper. Insulated and non-insulated crimping stations. Bolt cutter and re-threader. Spring and lock. Heat-treated spring steel. Cushioned double insulated handle. | 1 |
| **10-22 AWG 9 1/2" 5-FUNCTION ELECTRICIAN'S TOOL** | | | |
| **TL-5-1** | 4 | Seven wire stripping holes: 10, 12, 14, 16, 18, 20, 22 AWG. Wire cutter nose (CU/AL). Insulated and non-insulated crimping stations. Bolt cutter and re-threader. Heat-treated hardened steel. Cushioned double insulated handle. | 1 |
| **CABLE JACKET RIPPER 4"** | | | |
| **TL-RCR** | 5 | Slits NM jackets on Romex TM cables to allow stripping of internal wires. Wire gauge holes. | 1 |
| **INSULATED MINITERM TOOL** | | | |
| **NH-1** | 6 | A rachet-action crimping tool for quality crimping of insulated terminals and connectors, including rings, spades, male plugs, female receptacles and disconnects in 22/18, 16/14 and 12/10 AWG wire sizes. | 1 |
| **UNINSULATED MINITERM TOOL** | | | |
| **NH-3** | 7 | Crimp tool for insulated miniterms 22-10 AWG wire sizes. | 1 |
| **NH-4** | 8 | Crimp tool for un-insulated miniterms 22-8 AWG wire sizes. | 1 |

1



2



3



4



5



6



7

**Image Not Available**

8

**Image Not Available**

TOOLS

# Electrician's Hand Tools

TL SERIES



## FEATURES

- The essential hand tools for electrical work.
- Heat-treated forged steel construction with precision ground edges for cutting copper and aluminum.
- Double-insulated cushioned handles.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **DIAGONAL CUTTING PLIERS 6 1/2"** | | | |
| **TL-DC** | 1 | Designed and shaped for wire cutting in tight places. Wire cutter nose (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **CABLE CUTTER 8"** | | | |
| **TL-CCIH** | 2 | Designed for high-leverage cutting of cable to 2/0 (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **LONG REACH CUTTER/CRIMPER 8"** | | | |
| **TL-CRP** | 3 | Long reach design for wire cutting and crimping in tight places. Wire cutter nose (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **LONG NOSE PLIERS/STRIPPER/CRIMPER 6 1/2"** | | | |
| **TL-LNP** | 4 | For long reach twisting and positioning wires in tight places. Wire cutter (CU/AL). Non-insulated crimping stations. Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **LINEMAN'S PLIERS 7 1/2"** | | | |
| **TL-LP** | 5 | Designed for high leverage pulling and twisting wires and cables. Threaded wire-gripping nose. Wire cutter (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles. | 1 |
| **ELECTRICIAN'S 1000V SCREWDRIVERS** | | | |
| **TL-ISS** | 6 | Fully insulated (1000 Volt) screwdriver set. Comfort grip handles and fully insulated shafts for full shock protection (1) #2 Phillips head (1) 3/16" slotted tip. Hang holes. Heat treated drop forged steel. | 1 |

1



2



3



4



5



6



TOOLS

# Electrical Multitesters - Analog & Digital

TES SERIES





## FEATURES

- Precision hand-held analog and digital meter for measuring voltage, amperage, continuity, resistance, battery and decibel strength.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **ANALOG MULTITESTER 5-FUNCTION 12 RANGE** | | | |
| **TES-MT12** | 1 | Measures AC/DC voltage to 300 Volts. DC amperage to 250 mA. Decibels from -20 to 56dB. 1.5 and 9V Batteries Continuity. Fuse protection. Insulated test leads. Requires (2) AAA batteries. | 1 |
| **ANALOG MULTITESTER 7-FUNCTION 19 RANGE** | | | |
| **TES-MT19** | 2 | Tests AC/DC voltage to check 10 Meg. Decibels from -8 to +62dB 1.5 and 9V batteries. Continuity with audible buzzer Fuse protection. Insulated test leads. Requires (2) AA batteries. | 1 |
| **ANALOG BATTERY TESTER** | | | |
| **TES-MTBTL** | 3 | Tests AA; AAA; C; D; C; button cells; Ni-Cad; 3V lithium; 22.5V photo and lantern cells; 6V lantern; 12V, 15V photo cells. Insulated test leads. Exclusive button cell test compartment. | 1 |
| **DIGITAL MULTITESTER 6-FUNCTION 20 RANGE** | | | |
| **TES-DT18** | 4 | DC current to 200 mA. 1.5 and 9V batteries. Continuity (audible buzzer) Fuse protection. Insulated test leads. Requires 9V battery. | 1 |

1



2



3



4



TESTERS

# Circuit/Receptacle Testers

TES SERIES



## FEATURES

- Hand-held probe testers for measuring household voltage presence and level, low voltage presence, continuity and polarity.
- AC/DC home, commercial, automotive and marine voltages.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **80-250 VAC TWIN PROBE VOLTAGE TESTER** | | | |
| **TES-111** | 1 | Neon light indicates presence of AC voltage from 80-250 VAC. Double insulated housing and test leads. Pocket clip. | 1 |
| **120 OR 240 VAC VOLTAGE TESTER** | | | |
| **TES-2** | 2 | Dual neon light indicates presence of AC voltage of either 120 or 240 VAC. Double insulated housing and test leads. Pocket clip. | 1 |
| **5-50 VAC/DC VOLTAGE TESTER** | | | |
| **TES-LVT** | 3 | Neon light indicates presence of low voltage from 5 to 50 VAC or DC. Double insulated housing and fully insulated test leads with alligator clips. Pocket clip. | 1 |
| **CONTINUITY/VOLTAGE SCREWDRIVER TESTER** | | | |
| **TES-CT** | 4 | Neon light indicates presence of AC voltage from 12-300 VAC. Neon light also indicates circuit continuity. Double insulated housing. Handy screwdriver / voltage probe. Pocket clip. (2) LR-44 batteries included | 1 |
| **120-480 VAC/DC HEAVY-DUTY VOLTAGE TESTER** | | | |
| **TES-SOL** | 5 | Solenoid spring activated gauge measures voltage levels from 120 to 480 VAC. Double insulated housing and heavy gauge 48" test leads with housing storage. Lighted polarity indication. | 1 |

1



2




3




4




5



TESTERS

# Circuit/Receptacle Testers

TES SERIES CONT'D





## FEATURES

- Hand-held probe testers for measuring household voltage presence without contacting conductors, analyzing circuit wiring and GFCI integrity and quick baterry testing.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **GFCI ELECTRICAL JUNCTION BOX WIRING ANALYZER** | | | |
| **TES-131** | 1 | Plug in tester shows presence of correct wiring of electrical junction boxes. Also shows presence of up to 6 junction box wiring errors. Includes push-button GFCI integrity test. Neon bulb indication. | 1 |
| **ELECTRICAL JUNCTION BOX WIRING ANALYZER** | | | |
| **TES-122** | 2 | Plug in tester shows presence of correct wiring of electrical junction boxes. Also shows presence of up to 6 junction box wiring errors. Neon bulb indication. | 1 |
| **90-200 VAC NON-CONTACT VOLTAGE TESTER** | | | |
| **TES-NC** | 3 | Detects household voltages from 90 to 200 VAC without touching conductors. (2) AAA batteries are included. AAA battery test feature included. Double insulated. Pocket clip. | 1 |
| **POCKET BATTERY TESTER** | | | |
| **TES-BT** | 4 | Checks strength of AA, AAA, C, D, N, 9V and 1.5V Button Cell Batteries. Flip up contact arm fits battery poles. | 1 |

1



2



3




4



# Torque Wrenches, Screwdriver & Accessories

## TW SERIES



## FEATURES

### TORQUE WRENCHES

- Dual scale, calibrated dual direction.
- Positive lock with spring laoded pull down lock ring.
- Fast, accurate and easy to set.
- Easy-to-read laser marked scales.
- Most feature quick release buttons which provide good socket retention as well as easy socket removal.
- Accuracy: 3% CW, 4% CCW of indicated value, CW from 20% to 100% of full scale.
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.

### TORQUE SCREWDRIVERS

- Positive locking pull down adjustment knob.
- Trilobular comfort grip.
- Universal 1/4" hex bit holder with strong rare earth magnet.
- Cam-over torque limiting clutch and slip resistant finsih.
- Easy-to-read windown scale and light weight.
- Automatic lock in CCW direction for disassembly.
- Accuracy: 6% of indicated value, CW from 20% to 100% of full scale. Individually serialized with matching certificate of calibration traceable to N.I.S.T.
- Meets or exceeds ASME B107.14-2004

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **TW20-150** | 1 | Torque Wrench. Click Type. 20-150 In Lbs. 3/8" Drive Dual Scale. | 1 |
| **TW100-750** | 2 | Torque Wrench. Click Type. 100-750 In Lbs. 3/8" Drive Dual Scale. | 1 |
| **TW5-40** | 3 | Torque Screwdriver. Micro Adjustable. 5-40 In Lbs. 1/4" Drive Single Scale. | 1 |
| **TWHB 3818** | 4 | Hex Bit 3/8" Socket. 1/8" Hex. | 1 |
| **TWHB 38316** | 5 | Hex Bit 3/8" Socket. 3/16" Hex. | 1 |
| **TWHB 3814** | 6 | Hex Bit 3/8" Socket. 1/4" Hex. | 1 |
| **TWHB 38516** | 7 | Hex Bit 3/8" Socket. 5/16" Hex. | 1 |
| **TWHB 3838** | 8 | Hex Bit 3/8" Socket. 3/8" Hex. | 1 |
| **TWHB 1212** | 9 | Hex Bit 1/2" Socket. 1/2" Hex. | 1 |
| **TWDA 3812** | 10 | Drive Adaptor. 3/8" Female To 1/2" Male (Needed For Sa16a, Sa18a And Sa20a) | 1 |
| **TWBS 14** | 11 | 13 Piece 1/4" Drive Insert Bit Set. | 1 |
| **TWSB** | 12 | Holder For 1/4" Hex Screwdriver Bit. 3/8" Drive. | 1 |

1



2



3



4



5



6



7



8



9

**Image Not Available**

10



11



12



# Silicon Bronze Bolts, Hex Nuts, Flat Washers & Split Lockwashers

## HB, HN, SLW, FW SERIES







## FEATURES

- Corrosion resistance and physical strength combine to provide reliability.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

| CAT. NO. | FIG. NO. | BOLT SIZE | HEX/ WRENCH SIZE | SCREW SHAPE | LENGTH (IN) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **HB403** | 1 | 1/4" | 1/4" | | 3/4" | 25 |
| **HB404** | 1 | 1/4" | 1/4" | | 1" | 25 |
| **HB405** | 1 | 1/4" | 1/4" | | 1 1/4" | 25 |
| **HB406** | 1 | 1/4" | 1/4" | | 1 1/2" | 25 |
| **HB505** | 1 | 5/16" | 5/16" | | 1 1/4" | 25 |
| **HB507** | 1 | 5/16" | 5/16" | | 2" | 25 |
| **HB604** | 1 | 3/8" | 3/8" | | 1" | 25 |
| **HB605** | 1 | 3/8" | 3/8" | | 1 1/4" | 25 |
| **HB606** | 1 | 3/8" | 3/8" | | 1 1/2" | 25 |
| **HB607** | 1 | 3/8" | 3/8" | | 2" | 25 |
| **HB804** | 1 | 1/2" | 1/2" | | 1" | 25 |
| **HB805** | 1 | 1/2" | 1/2" | | 1 1/4" | 25 |
| **HB806** | 1 | 1/2" | 1/2" | | 1 1/2" | 25 |
| **HB807** | 1 | 1/2" | 1/2" | | 2" | 25 |
| **HB808** | 1 | 1/2" | 1/2" | | 2 1/4" | 25 |
| **HB809** | 1 | 1/2" | 1/2" | | 2 1/2" | 25 |
| **HB811** | 1 | 1/2" | 1/2" | | 3" | 25 |
| **HB812** | 1 | 1/2" | 1/2" | | 3 1/2" | 25 |
| **HN-4** | 2 | 1/4" | 1/4" | | – | 25 |
| **HN-5** | 2 | 5/16" | 5/16" | | – | 25 |
| **HN-6** | 2 | 3/8" | 3/8" | | – | 25 |
| **HN-8** | 2 | 1/2" | 1/2" | | – | 25 |
| **SLW-4** | 3 | 1/4" | – | | – | 25 |
| **SLW-5** | 3 | 5/16" | – | | – | 25 |
| **SLW-6** | 3 | 3/8" | – | | – | 25 |
| **SLW-8** | 3 | 1/2" | – | | – | 25 |
| **FW-4** | 4 | 1/4" | – | | – | 25 |
| **FW-5** | 4 | 5/16" | – | | – | 25 |
| **FW-6** | 4 | 3/8" | – | | – | 25 |
| **FW-8** | 4 | 1/2" | – | | – | 25 |

HARDWARE

# Stainless Steel Bolts, Hex Nuts, Flat Washers & Split Lockwashers

SS, SSHN, SSBW, SSSLW, SSFW, SSBW SERIES



## FEATURES

- Corrosion resistance and physical strength combine to provide reliability.




| CAT. NO. | FIG. NO. | BOLT SIZE | HEX/ WRENCH SIZE | SCREW SHAPE | LENGTH (IN) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **SS66** | 1 | 3/8" | 3/8" | ⬡ | 2 1/4" | 25 |
| **SS34** | 1 | 1/2" | 1/2" | | 1 3/4" | 25 |
| **SS37** | 1 | 1/2" | 1/2" | ⬡ | 2 1/2" | 25 |
| **SSHN-6** | 2 | 3/8" | 3/8" | | – | 25 |
| **SSHN-8** | 2 | 1/2" | 1/2" | ⬡ | – | 25 |
| **SSBW-6** | 3 | 3/8" | – | – | – | 25 |
| **SSSLW-8** | 3 | 1/2" | – | – | – | 25 |
| **SSFW-6** | 4 | 3/8" | – | – | – | 25 |
| **SSFW-8** | 4 | 1/2" | – | – | – | 25 |
| **SSBW-8** | 5 | 1/2" | – | – | – | 25 |

INHIBITORS

# Oxide Inhibitor & Duct Sealing Compound

OX, DS SERIES





## OXIDE INHIBITOR

- Universal oxide inhibitor for aluminum and/or copper terminations.
- Remains stable over a wide temperature range.
- Supplied in clear, easy-squeeze bottles or tubes.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

| CAT. NO. | FIG. NO. | DESCRIPTION | SIZE (OZ) | STD. CTN. QTY. |
|---|---|---|---|---|
| **OX-8** | 1 | Oxide Inhibitor. Squeeze Bottle. | 8 oz. | 12 |
| **OX-4** | 2 | Oxide Inhibitor. Squeeze Bottle. | 4 oz. | 12 |
| **OX-1** | 3 | Oxide Inhibitor. Squeeze Tube. | 3/4 oz. | 100 |

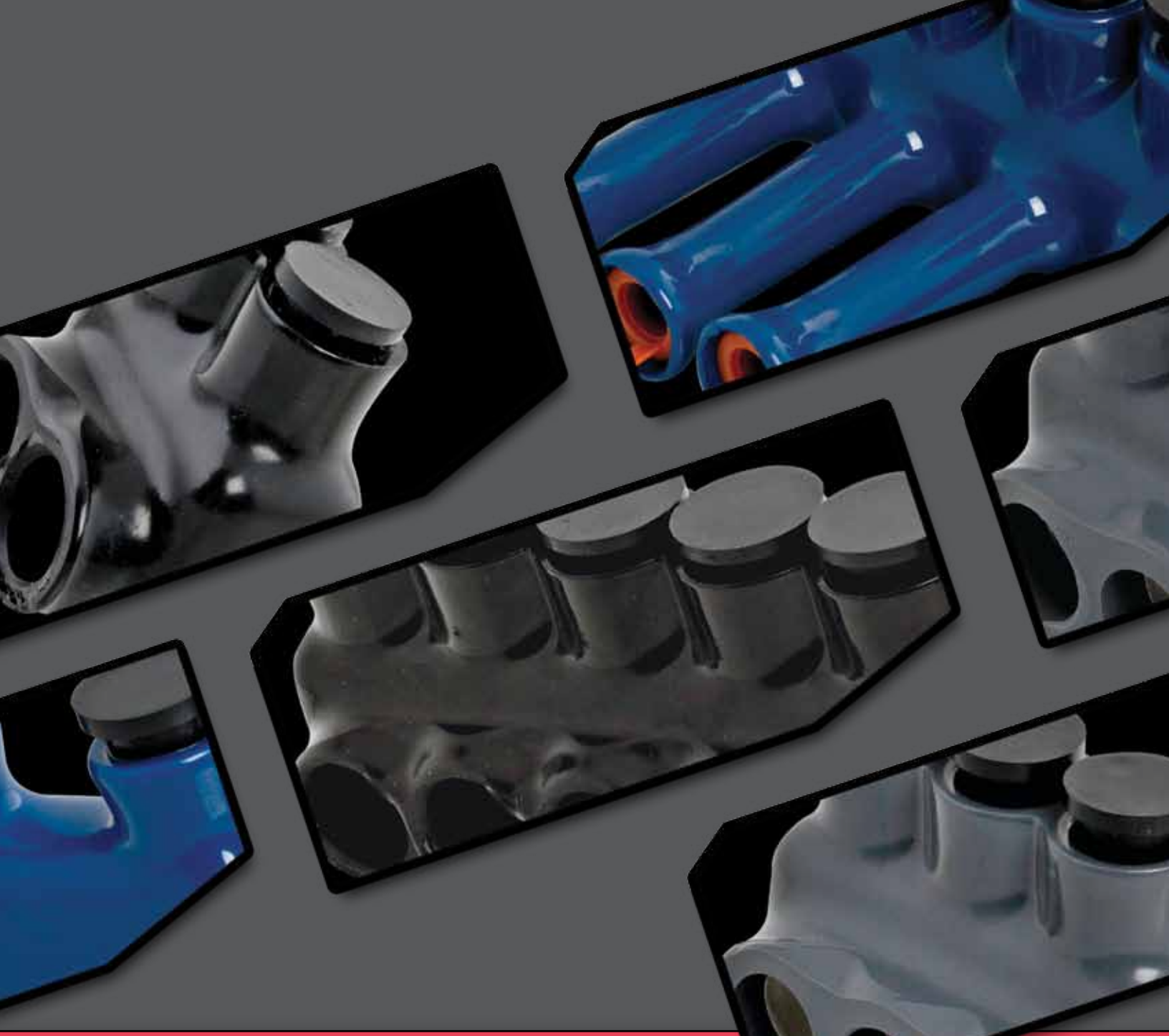
## DUCT SEALING COMPOUND

- Intended for sealing around electrical service entries, junction boxes and other devices where weather-proofing is critical.
- Will stay soft and pliable for several years and has an excellent shelf life.
- Will not damage wire covers, glass, wood, painted surfaces, plastics or other materials it may contact.
- It is chemically inert, inhibiting no chemical activity and is nontoxic.
- Contains no asbestos or mineral fibers and no mineral oil which can shorten the effective life of the product.
- Remains pliable through a wide range of temperatures and will adhere to most clean dry surfaces.

| 1 | 2 |
|---|---|
|  |  |

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **DS184** | 1 | Duct Seal – 1 Lb. Pkg. | 50 |
| **DS185** | 2 | Duct Seal – 5 Lbs. Pkg. | 10 |





# POLARIS™

# POLARIS GREY™ INSULATED CONNECTORS
## For Fine Stranded Wire & Replacement Sleeves
### ITG, ITOG, IPLG, SITG SERIES



## FEATURES

- Safe: Insulated with high dielectric strength plastisol for tough mechanical protection.
- Factory applied insulation provides consistent quality and protection.
- Abrasion and chemical resistant.
- Fast: Eliminates the need for cover and taping – supplied with removable access plugs over the hex screws to protect against contamination.
- Easy: Three sizes cover 14 to 3/0 AWG.
- Reusable: ideal for cabletrays, troughs, wire-ways, raceways, ducts and motor junction boxes.
- For Copper Wire Only

## RATINGS

c UL us

UL Listed 486A Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
CU9. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Can be used with virtually any kind of copper conductor, but is specifically designed for use with fine-stranded, flexible and extra-flexible copper conductors. This includes DLO cable and motor lead wire – excellent for use in motor connect/disconnect applications.

**ASSEMBLY INSTRUCTIONS:**
See page 213 for detailed information for assembly, mounting and installation.

All dimensional data is listed in inches.

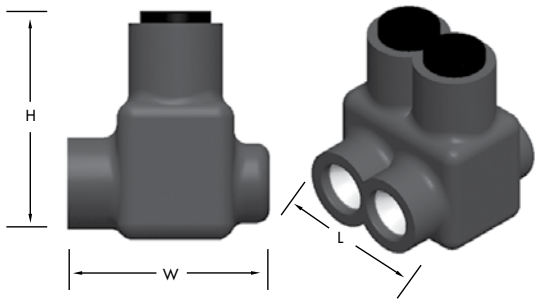
| CAT. NO. | NO. OF PORTS |
|---|---|
| ITG-6 | 2 |
| ITOG-6 | 2 |
| IPLG6-3 | 3 |
| IPLG6-4 | 4 |
| IPLG6-6 | 6 |
| ITG-1 | 2 |
| ITOG-1 | 2 |
| IPLG1-3 | 3 |
| IPLG1-4 | 4 |
| IPLG1-6 | 6 |
| ITG-3/0 | 2 |
| ITOG-3/0 | 2 |
| IPLG3/0-3 | 3 |
| IPLG3/0-4 | 4 |
| IPLG3/0-6 | 6 |

For display bags with a mounting hole for hanging, add the suffix "-B" to the part number when ordering.

| POLARIS GREY™ REPLACEMENT SLEEVES | |
|---|---|
| CAT. NO. | STD. CTN. QTY. |
| SITG-6 | 10 |
| SITG-1 | 10 |
| SITG-3/0 | 10 |



| WIRE RANGE (BY CLASSIFICATION) | | LENGTH (L) | WIDTH (W) | HEIGTH (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| CLASS B, C, D | CLASS K, M, I | | | | | | |
| 6-14 AWG | 6-14 AWG | 1.130 | 1.240 | 1.370 | 45 | 1/8 | 12 |
| 6-14 AWG | 6-14 AWG | 1.130 | 1.270 | 1.370 | 45 | 1/8 | 12 |
| 6-14 AWG | 6-14 AWG | 1.550 | 1.240 | 1.370 | 45 | 1/8 | 12 |
| 6-14 AWG | 6-14 AWG | 1.980 | 1.240 | 1.370 | 45 | 1/8 | 6 |
| 6-14 AWG | 6-14 AWG | 2.820 | 1.240 | 1.370 | 45 | 1/8 | 6 |
| 1-10 AWG | 2-10 AWG | 1.600 | 1.550 | 1.750 | 150 | 3/16 | 6 |
| 1-10 AWG | 2-10 AWG | 1.600 | 1.630 | 1.750 | 150 | 3/16 | 6 |
| 1-10 AWG | 2-10 AWG | 1.550 | 1.240 | 1.370 | 150 | 3/16 | 6 |
| 1-10 AWG | 2-10 AWG | 1.980 | 1.240 | 1.370 | 150 | 3/16 | 6 |
| 1-10 AWG | 2-10 AWG | 2.820 | 1.240 | 1.370 | 150 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 1.850 | 1.600 | 1.810 | 250 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 1.850 | 1.630 | 1.810 | 250 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 2.250 | 1.600 | 1.750 | 250 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 2.900 | 1.600 | 1.750 | 250 | 3/16 | 6 |
| 3/0-4 AWG | 2/0-2 AWG | 4.200 | 1.600 | 1.750 | 250 | 3/16 | 4 |




## Protect those fine-stranded wires with Polaris Grey™.

Here's our secret: Polaris Grey™ comes with an integral sleeve which protects the fine strands and helps the conductor maintain its shape during the tightening process. The sleeve eliminates breakage of the strands and reduces stress on the conductor and therefore the potential for hot-spots. Replacement sleeves can be purchased separately.

Specially designed for connecting and terminating fine-stranded, flexible copper conductors. Polaris Grey™ combines the reliability and safety of a compression connection with the ease, affordability and flexibility of a mechanical connection.

Motor replacement is now really easy. Simply strip the cable, insert it into Polaris Grey™, tighten the hex head screw, replace the cap.

POLARIS BLUE™ INSULATED CONNECTORS

# For Direct Burial & Submersible

## ISW SERIES



## FEATURES

- For connecting two wires in-line.
- For direct burial and submersible applications (UL486D).
- Insulated with specially formulated high strength dielectric plastisol and molded for precise fit for a direct burial connection.
- Requires no taping, compounds, heat shrink or cutting-to-size in the field.
- Supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant. UV rated. Will not support combustion.
- Dual rated: Suitable for use with aluminum and/or copper conductors.
- Reusable.

## RATINGS

c UL us

UL Listed 486D Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Suitable for use with aluminum and/or copper conductors. Approved for use with all conductors with insulation suitable for wet and/or damp locations. Not recommended for use with extra flexible cable (see Polaris Grey™ Series page 173).

**INSTALLATION INSTRUCTIONS:**
See page 213 for detailed installation information.



All dimensional data is listed in inches.

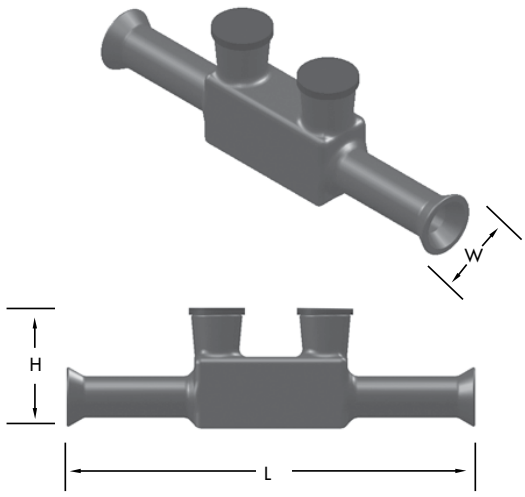
| CAT. NO. | WIRE RANGE URD/USE THHN/XHHW* |
|---|---|
| **ISW-3/0** | 3/0-1/0 AWG |
| **ISW-250** | 250-4/0 AWG |

* Not suitable for direct burial with THHN/XHHW wire. For use in enclosures only.
A properly installed connector will have no more than one conductor per port.





| INSULATION | | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STRIP LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| MIN. DIA. | MAX. DIA. | | | | | | | |
| 0.462 | 0.720 | 7.625 | 1.625 | 2.625 | 250 | 1/4 | 7/8 | 1 |
| 0.618 | 0.895 | 7.563 | 1.188 | 2.125 | 360 | 5/16 | 1-1/8 | 1 |




## Polaris™ Blue custom connectors

Let us help you custom engineer and fabricate a UL Listed direct burial and submersible insulated connector for your next project. Choose any combination and quantity of our standard Polaris Blue and we'll build a connector to meet your exact requirements. Wire entry can even be from either side of the connector, based on your specific project needs. UL486D for direct burial or below ground use and submersible applications.

POLARIS BLUE™ INSULATED CONNECTORS

# Direct Burial & Submersible

## ITW, IPLW SERIES



## FEATURES

- For connecting multiple wires and are UL Listed (UL486D) for direct burial and submersible applications.
- Insulated with specially formulated high strength dielectric plastisol and molded for precise fit for a direct burial connection.
- Requires no taping, compounds, heat shrink or cutting-to-size in the field.
- Supplied with removable access plugs over the hex screws and pre-filled oxide inhibitor.
- Abrasion and chemical resistant. UV resistant.
- Will not support combustion.
- Dual rated: Suitable for use with aluminum and/or copper conductors.

## RATINGS

c UL us

UL Listed 486D Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Suitable for use with aluminum and/or copper conductors. Approved for use with all conductors with insulation suitable for wet and/or damp locations. Not recommended for use with extra flexible cable (see Polaris Grey™ Series page 173).

**INSTALLATION INSTRUCTIONS:**
See page 213 for detailed installation information.

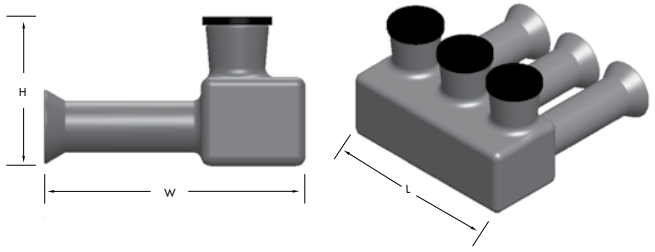


All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS | WIRE RANGE URD/USE THHN/ XHHW* |
|---|---|---|
| ITW-3/0 | 2 | 3/0-1/0 AWG |
| IPLW3/0-3 | 3 | 3/0-1/0 AWG |
| IPLW3/0-4 | 4 | 3/0-1/0 AWG |
| IPLW3/0-5 | 5 | 3/0-1/0 AWG |
| IPLW3/0-6 | 6 | 3/0-1/0 AWG |
| ITW-250 | 2 | 250-4/0 AWG |
| IPLW250-3 | 3 | 250-4/0 AWG |
| IPLW250-4 | 4 | 250-4/0 AWG |
| IPLW250-5 | 5 | 250-4/0 AWG |
| IPLW250-6 | 6 | 250-4/0 AWG |



| INSULATION | | HEX SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | STRIP LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| MIN. DIA. | MAX. DIA. | | | | | | | |
| 0.462 | 0.720 | 1/4 | 2.270 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.462 | 0.720 | 1/4 | 3.470 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.462 | 0.720 | 1/4 | 4.670 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.462 | 0.720 | 1/4 | 5.870 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.462 | 0.720 | 1/4 | 7.070 | 3.710 | 1.990 | 250 | 7/8 | 1 |
| 0.618 | 0.895 | 5/16 | 2.510 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |
| 0.618 | 0.895 | 5/16 | 3.810 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |
| 0.618 | 0.895 | 5/16 | 5.110 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |
| 0.618 | 0.895 | 5/16 | 6.410 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |
| 0.618 | 0.895 | 5/16 | 7.710 | 3.940 | 2.290 | 360 | 1-1/8 | 1 |




## Polaris™ Blue custom connectors

Let us help you custom engineer and fabricate a UL Listed direct burial and submersible insulated connector for your next project. Choose any combination and quantity of our standard Polaris Blue and we'll build a connector to meet your exact requirements. Wire entry can even be from either side of the connector, based on your specific project needs. UL486D for direct burial or below ground use and submersible applications.

# POLARIS™ INSULATED CONNECTORS
# Dual Rated Two-Wire
## IT, ITO, ITH SERIES

## FEATURES

- Insul-Tap connectors, suitable for connecting two wires.
- For sizes 3/0 AWG and smaller, available in two styles: wires being connected from the same side of the connector (Figure 1) or opposite sides of the connector (Figure 2).
- For sizes 250 MCM and larger, provided with open wire entry ports on both sides of the connector (Figure 3), which allows for access from either side. This style is supplied with removable access plugs to close the entry port not being utilized.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire (see Polaris Grey™ Series page 173).

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

All dimensional data is listed in inches.

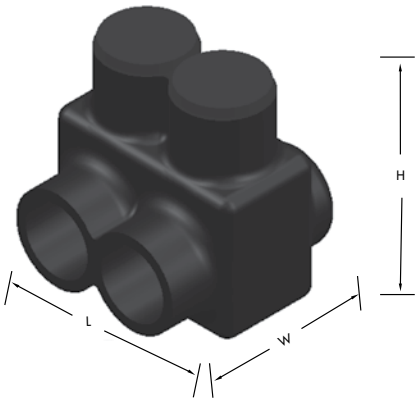
| CAT. NO. | FIG. NO. |
|---|---|
| **IT-4** | 1 |
| **ITO-4** | 2 |
| **IT-4A** | 1 |
| **IT-1/0** | 1 |
| **ITO-1/0** | 2 |
| **IT-3/0** | 1 |
| **ITO-3/0** | 2 |
| **IT-250** | 3 |
| **IT-350** | 3 |
| **IT-500** | 3 |
| **IT-600** | 3 |
| **IT-750**** | 3 |
| **ITH-750** | 4 |

** IT-750 is not UL listed.





| WIRE RANGE | NO. OF PORTS | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 4-14 AWG | 2 | 1.120 | 1.180 | 1.380 | 35 | Slotted | 12 |
| 4-14 AWG | 2 | 1.120 | 1.250 | 1.380 | 35 | Slotted | 12 |
| 4-14 AWG | 2 | 1.120 | 1.180 | 1.380 | 35 | 1/8 | 12 |
| 1/0-14 AWG | 2 | 1.620 | 1.620 | 1.750 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 2 | 1.620 | 1.750 | 1.750 | 180 | 3/16 | 6 |
| 3/0-6 AWG | 2 | 1.840 | 1.750 | 1.870 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 2 | 1.840 | 1.870 | 1.870 | 250 | 1/4 | 6 |
| 250 MCM-6 AWG | 2 | 2.120 | 2.250 | 2.250 | 360 | 5/16 | 6 |
| 350 MCM-6 AWG | 2 | 2.470 | 2.500 | 2.440 | 400 | 5/16 | 4 |
| 500 MCM-4 AWG | 2 | 2.810 | 2.870 | 2.940 | 450 | 5/16 | 4 |
| 600 MCM-6 AWG | 2 | 2.340 | 2.940 | 3.050 | 550 | 5/16 | 4 |
| 750-250 MCM | 2 | 3.480 | 3.500 | 3.500 | 550 | 3/8 | 2 |
| 750-1/0 MCM | 2 | 3.480 | 4.500 | 3.500 | 550 | 5/16 | 2 |



POLARIS™ INSULATED CONNECTORS

# Dual Rated Splicer/Reducers

ISR SERIES

## FEATURES

- Suitable for connecting two wires in-line.
- Insulated with high dielectric strength plastisol and molded for precise fit.
- Supplied with removable access plugs over the hex screw.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. |
|---|---|
| ISR-1/0 | 1 |
| ISR-250 | 1 |
| ISR-350 | 1 |
| ISR-500 | 1 |
| ISR-600 | 1 |
| ISRH-750 | 2 |

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
Cold temperature rated to -45 °C, rated 600V, 90 °C.

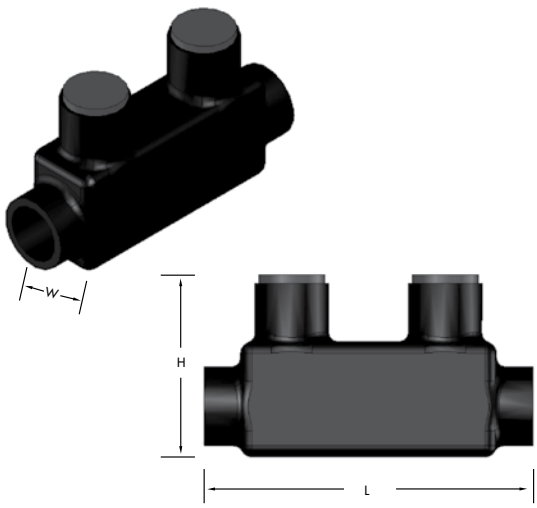
**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for use with extra-flexible cables (see Polaris Grey™ Series page 173).

| 1 | 2 |
|---|---|
|  |  |





| WIRE RANGE | NO. OF PORTS | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 1/0-14 AWG | 2 | 3.250 | 0.900 | 1.480 | 180 | 3/16 | 4 |
| 250 MCM-6 AWG | 2 | 4.000 | 1.190 | 1.900 | 360 | 5/16 | 4 |
| 350 MCM-6 AWG | 2 | 4.470 | 1.320 | 2.200 | 400 | 5/16 | 2 |
| 500 MCM-4 AWG | 2 | 4.620 | 1.620 | 3.000 | 450 | 5/16 | 2 |
| 600 MCM-6 AWG | 2 | 5.830 | 1.570 | 3.050 | 550 | 5/16 | 2 |
| 750 MCM-1/0 AWG | 2 | 7.250 | 1.750 | 3.250 | 550 | 5/16 | 2 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor Connector One Side Wire Entry

## IPL SERIES



## FEATURES

- Wire entry ports on one side only.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

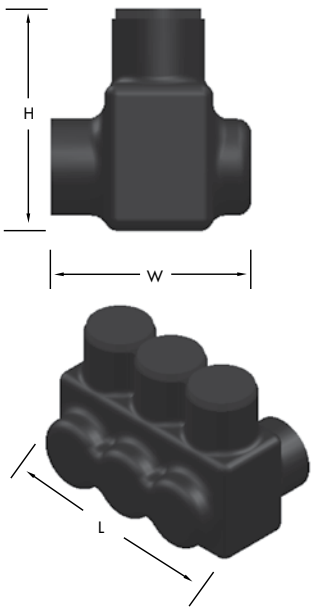
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| IPL4-3 | 3 |
| IPL4-3A | 3 |
| IPL4-4 | 4 |
| IPL4-4A | 4 |
| IPL4-5 | 5 |
| IPL4-6 | 6 |
| IPL4-8 | 8 |
| IPL4-8A | 8 |
| IPL4-10 | 10 |
| IPL4-12 | 12 |
| IPL4-14 | 14 |
| IPL1/0-3 | 3 |
| IPL1/0-4 | 4 |
| IPL1/0-5 | 5 |
| IPL1/0-6 | 6 |
| IPL1/0-8 | 8 |
| IPL1/0-10 | 10 |
| IPL1/0-12 | 12 |
| IPL1/0-14 | 14 |
| IPL3/0-3 | 3 |
| IPL3/0-4 | 4 |
| IPL3/0-5 | 5 |
| IPL3/0-6 | 6 |
| IPL3/0-8 | 8 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 4-14 AWG | 1.550 | 1.188 | 1.375 | 45 | Slotted | 12 |
| 4-14 AWG | 1.550 | 1.188 | 1.375 | 45 | 1/8 | 12 |
| 4-14 AWG | 1.970 | 1.188 | 1.375 | 45 | Slotted | 6 |
| 4-14 AWG | 1.970 | 1.188 | 1.375 | 45 | 1/8 | 6 |
| 4-14 AWG | 2.390 | 1.188 | 1.375 | 45 | Slotted | 6 |
| 4-14 AWG | 2.810 | 1.188 | 1.375 | 45 | Slotted | 6 |
| 4-14 AWG | 3.660 | 1.188 | 1.375 | 45 | Slotted | 4 |
| 4-14 AWG | 3.660 | 1.188 | 1.375 | 45 | 1/8 | 4 |
| 4-14 AWG | 4.500 | 1.188 | 1.375 | 45 | Slotted | 4 |
| 4-14 AWG | 5.100 | 1.188 | 1.375 | 45 | Slotted | 2 |
| 4-14 AWG | 6.180 | 1.188 | 1.375 | 180 | 3/16 | 12 |
| 1/0-14 AWG | 2.240 | 1.500 | 1.688 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 2.890 | 1.500 | 1.688 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 3.540 | 1.500 | 1.688 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 4.190 | 1.500 | 1.688 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 5.490 | 1.500 | 1.688 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 6.820 | 1.500 | 1.688 | 180 | 3/16 | 3 |
| 1/0-14 AWG | 8.120 | 1.500 | 1.688 | 180 | 3/16 | 2 |
| 1/0-14 AWG | 9.420 | 1.500 | 1.688 | 250 | 5/16 | 6 |
| 3/0-6 AWG | 2.630 | 1.600 | 1.800 | 250 | 5/16 | 6 |
| 3/0-6 AWG | 3.410 | 1.600 | 1.800 | 250 | 5/16 | 4 |
| 3/0-6 AWG | 4.190 | 1.600 | 1.800 | 250 | 5/16 | 4 |
| 3/0-6 AWG | 4.970 | 1.600 | 1.800 | 250 | 5/16 | 3 |
| 3/0-6 AWG | 6.530 | 1.600 | 1.800 | 250 | 5/16 | 3 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor Connector One Side Wire Entry

## IPL SERIES CONT'D



## FEATURES

- Wire entry ports on one side only.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

All dimensional data is listed in inches.

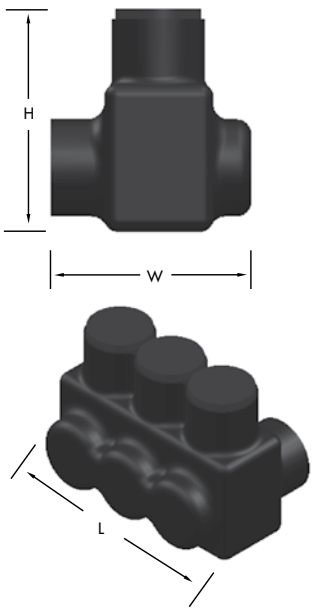
| CAT. NO. | NO. OF PORTS |
|---|---|
| IPL250-3 | 3 |
| IPL250-4 | 4 |
| IPL250-5 | 5 |
| IPL250-6 | 6 |
| IPL250-8 | 8 |
| IPL350-3 | 3 |
| IPL350-4 | 4 |
| IPL350-5 | 5 |
| IPL350-6 | 6 |
| IPL350-8 | 8 |
| IPL500-3 | 3 |
| IPL500-4 | 4 |
| IPL500-5 | 5 |
| IPL500-6 | 6 |
| IPL500-7 | 7 |
| IPL500-8 | 8 |
| IPL600-3* | 3 |
| IPL600-4* | 4 |
| IPL600-6* | 6 |
| IPL750-3** | 3 |
| IPL750-4** | 4 |
| IPL750-5** | 5 |
| IPL750-6** | 6 |

*AL7CU rated.
**Not UL listed.





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 250 MCM-6 AWG | 2.930 | 2.030 | 2.180 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 3.800 | 2.030 | 2.180 | 360 | 5/16 | 4 |
| 250 MCM-6 AWG | 4.660 | 2.030 | 2.180 | 360 | 5/16 | 4 |
| 250 MCM-6 AWG | 5.220 | 2.030 | 2.180 | 360 | 5/16 | 3 |
| 250 MCM-6 AWG | 7.240 | 2.030 | 2.180 | 400 | 5/16 | 4 |
| 350 MCM-6 AWG | 3.470 | 2.130 | 2.460 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 4.540 | 2.130 | 2.460 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 5.570 | 2.130 | 2.460 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 6.620 | 2.130 | 2.460 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 8.720 | 2.130 | 2.460 | 450 | 5/16 | 3 |
| 500 MCM-4 AWG | 3.960 | 2.500 | 2.940 | 450 | 5/16 | 3 |
| 500 MCM-4 AWG | 5.110 | 2.500 | 2.940 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 6.250 | 2.500 | 2.940 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 7.400 | 2.500 | 2.940 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 8.590 | 2.500 | 2.940 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 9.690 | 2.500 | 2.940 | 550 | 5/16 | 3 |
| 600 MCM-6 AWG | 4.470 | 2.710 | 3.020 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 5.770 | 2.710 | 3.020 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 8.370 | 2.710 | 3.020 | 550 | 3/8 | 3 |
| 750-250 MCM | 4.950 | 3.090 | 3.490 | 550 | 3/8 | 2 |
| 750-250 MCM | 6.380 | 3.090 | 3.490 | 550 | 3/8 | 1 |
| 750-250 MCM | 7.800 | 3.090 | 3.490 | 550 | 3/8 | 1 |
| 750-250 MCM | 9.230 | 3.090 | 3.490 | 550 | 3/8 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor Connector Either Side Wire Entry

## IPLD SERIES



## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

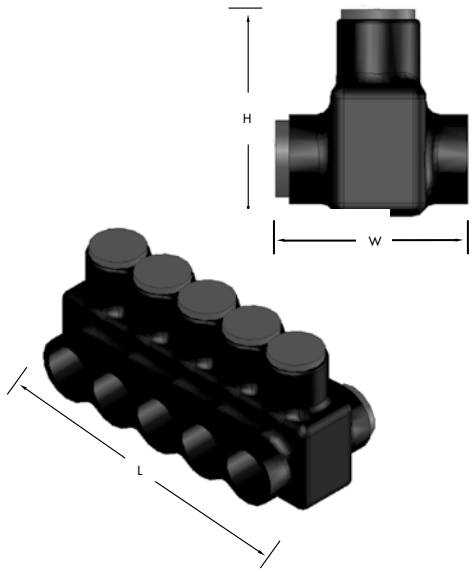
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| IPLD3/0-3 | 3 |
| IPLD3/0-4 | 4 |
| IPLD3/0-5 | 5 |
| IPLD3/0-6 | 6 |
| IPLD3/0-7 | 7 |
| IPLD3/0-8 | 8 |
| IPLD3/0-10 | 10 |
| IPLD3/0-12 | 12 |
| IPLD250-3 | 3 |
| IPLD250-4 | 4 |
| IPLD250-5 | 5 |
| IPLD250-6 | 6 |
| IPLD250-7 | 7 |
| IPLD250-8 | 8 |
| IPLD250-10 | 10 |
| IPLD250-12 | 12 |
| IPLD350-3 | 3 |
| IPLD350-4 | 4 |
| IPLD350-5 | 5 |
| IPLD350-6 | 6 |
| IPLD350-7 | 7 |
| IPLD350-8 | 8 |
| IPLD350-9 | 9 |
| IPLD350-10 | 10 |
| IPLD350-12 | 12 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 3/0-6 AWG | 2.630 | 1.830 | 1.790 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 3.410 | 1.830 | 1.790 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 4.190 | 1.830 | 1.790 | 250 | 1/4 | 4 |
| 3/0-6 AWG | 4.970 | 1.830 | 1.790 | 250 | 1/4 | 4 |
| 3/0-6 AWG | 5.750 | 1.830 | 1.790 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 6.530 | 1.830 | 1.790 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 8.090 | 1.830 | 1.790 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 11.210 | 1.830 | 1.790 | 250 | 1/4 | 2 |
| 250 MCM-6 AWG | 2.930 | 2.280 | 2.180 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 3.800 | 2.280 | 2.180 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 4.660 | 2.280 | 2.180 | 360 | 5/16 | 4 |
| 250 MCM-6 AWG | 5.520 | 2.280 | 2.180 | 360 | 5/16 | 4 |
| 250 MCM-6 AWG | 6.380 | 2.280 | 2.180 | 360 | 5/16 | 3 |
| 250 MCM-6 AWG | 7.240 | 2.280 | 2.180 | 360 | 5/16 | 3 |
| 250 MCM-6 AWG | 8.970 | 2.280 | 2.180 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 10.740 | 2.280 | 2.180 | 360 | 5/16 | 2 |
| 350 MCM-6 AWG | 3.520 | 2.410 | 2.610 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 4.570 | 2.410 | 2.610 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 5.620 | 2.410 | 2.610 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 6.670 | 2.410 | 2.610 | 400 | 5/16 | 3 |
| 350 MCM-6 AWG | 7.720 | 2.410 | 2.610 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 8.770 | 2.410 | 2.610 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 9.820 | 2.410 | 2.610 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 10.870 | 2.410 | 2.610 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 12.970 | 2.410 | 2.610 | 400 | 5/16 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Cable Blocks Either Side Wire Entry

IPLD SERIES



## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

All dimensional data is listed in inches.

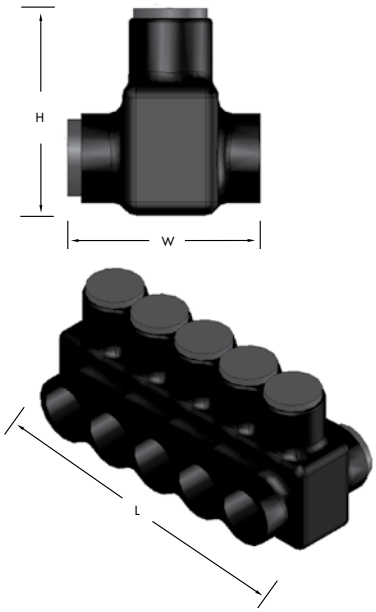
| CAT. NO. | NO. OF PORTS |
|---|---|
| **IPLD500-3** | 3 |
| **IPLD500-4** | 4 |
| **IPLD500-5** | 5 |
| **IPLD500-6** | 6 |
| **IPLD500-7** | 7 |
| **IPLD500-8** | 8 |
| **IPLD500-9** | 9 |
| **IPLD500-10** | 10 |
| **IPLD500-12** | 12 |
| **IPLD600-3** | 3 |
| **IPLD600-4** | 4 |
| **IPLD600-5** | 5 |
| **IPLD600-6** | 6 |
| **IPLD600-7** | 7 |
| **IPLD600-8** | 8 |
| **IPLD600-9** | 9 |
| **IPLD600-10** | 10 |
| **IPLD600-12** | 12 |
| **IPLD750-3*** | 3 |
| **IPLD750-4*** | 4 |
| **IPLD750-5*** | 5 |
| **IPLD750-6*** | 6 |
| **IPLD750-7*** | 7 |
| **IPLD750-8*** | 8 |
| **IPLD750-9*** | 9 |
| **IPLD750-10*** | 10 |
| **IPLD750-12*** | 12 |

*Not UL listed.





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 500 MCM-4 AWG | 4.010 | 2.830 | 2.910 | 450 | 5/16 | 3 |
| 500 MCM-4 AWG | 5.240 | 2.830 | 2.910 | 450 | 5/16 | 3 |
| 500 MCM-4 AWG | 6.380 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 7.520 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 8.670 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 9.820 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 10.880 | 2.830 | 2.910 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 12.110 | 2.960 | 3.030 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 14.400 | 2.960 | 3.030 | 450 | 5/16 | 1 |
| 600 MCM-6 AWG | 4.550 | 2.960 | 3.030 | 450 | 5/16 | 3 |
| 600 MCM-6 AWG | 5.850 | 2.960 | 3.030 | 450 | 5/16 | 3 |
| 600 MCM-6 AWG | 7.150 | 2.960 | 3.030 | 450 | 5/16 | 2 |
| 600 MCM-6 AWG | 8.450 | 2.960 | 3.030 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 9.750 | 2.960 | 3.030 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 11.050 | 2.960 | 3.030 | 550 | 5/16 | 2 |
| 600 MCM-6 AWG | 12.390 | 2.960 | 3.030 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 13.650 | 3.410 | 3.420 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 16.250 | 3.410 | 3.420 | 550 | 5/16 | 1 |
| 750-250 MCM | 4.950 | 3.410 | 3.420 | 550 | 3/8 | 3 |
| 750-250 MCM | 6.380 | 3.410 | 3.420 | 550 | 3/8 | 2 |
| 750-250 MCM | 7.800 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 9.230 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 10.650 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 12.080 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 13.690 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 14.930 | 3.410 | 3.420 | 550 | 3/8 | 1 |
| 750-250 MCM | 17.780 | 3.410 | 3.420 | 550 | 3/8 | 1 |



POLARIS™ INSULATED CONNECTORS

# Heavy Duty Connectors Either Side Wire Entry

## IPLDH SERIES



## FEATURES

- Connector block is double the size of the standard IPLD Series connector with two pressure screws provided for each cable to ensure the best connection possible.
- Designed, built and tested to handle even the most demanding applications from 250 MCM to 750 MCM.
- Insulated with high-dielectric strength plastisol molded for a precise fit.
- Supplied with removable access plugs to allow for cable entry from either side of the connector.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

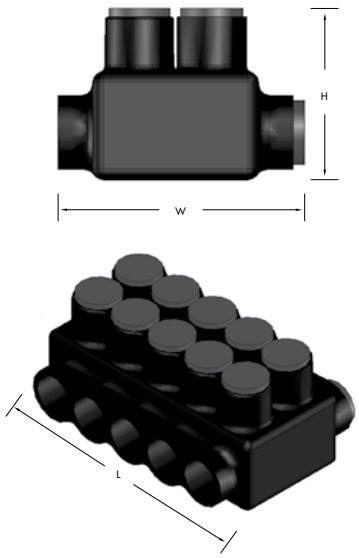
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| **IPLDH750-3** | 3 |
| **IPLDH750-4** | 4 |
| **IPLDH750-5** | 5 |
| **IPLDH750-6** | 6 |
| **IPLDH750-8** | 8 |
| **IPLDH750-10** | 10 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 750 MCM - 1/0 AWG | 4.950 | 4.460 | 3.300 | 550 | 5/16 | 2 |
| 750 MCM - 1/0 AWG | 6.380 | 4.460 | 3.300 | 550 | 5/16 | 2 |
| 750 MCM - 1/0 AWG | 7.800 | 4.460 | 3.300 | 550 | 5/16 | 1 |
| 750 MCM - 1/0 AWG | 9.230 | 4.460 | 3.300 | 550 | 5/16 | 1 |
| 750 MCM - 1/0 AWG | 12.080 | 4.460 | 3.300 | 550 | 5/16 | 1 |
| 750 MCM - 1/0 AWG | 14.600 | 4.460 | 3.300 | 550 | 5/16 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Cable Stacked Either Side Wire Entry

## IPLDS SERIES



## FEATURES

- Exceptional for use with large wire sizes, especially in tight-fitting spaces, small wire ways and panels.
- The wire holes on the bottom row allow for entry from either side of the connector for even greater versatility.
- Wire entry holes are stacked on top of each other for the ultimate in compact design.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

All dimensional data is listed in inches.

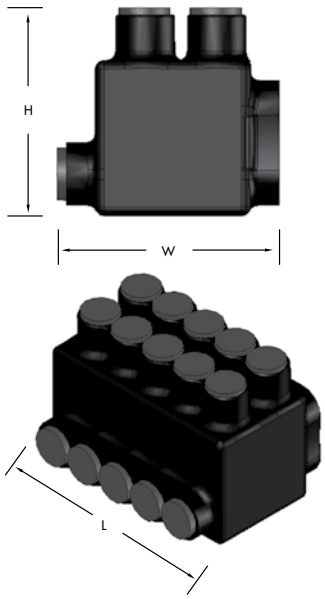
| CAT. NO. | NO. OF PORTS |
|---|---|
| **IPLDS350-4** | 4 |
| **IPLDS350-6** | 6 |
| **IPLDS350-8** | 8 |
| **IPLDS350-10** | 10 |
| **IPLDS350-12** | 12 |
| **IPLDS500-4** | 4 |
| **IPLDS500-6** | 6 |
| **IPLDS500-8** | 8 |
| **IPLDS500-10** | 10 |
| **IPLDS500-12** | 12 |
| **IPLDS750-6** | 6 |
| **IPLDS750-8** | 8 |
| **IPLDS750-10** | 10 |
| **IPLDS750-12** | 12 |

* 750 MCM not UL Listed.





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 350 MCM-6 AWG | 2.550 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 350 MCM-6 AWG | 3.600 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 350 MCM-6 AWG | 4.650 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 350 MCM-6 AWG | 5.700 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 350 MCM-6 AWG | 6.750 | 3.910 | 3.520 | 400 | 5/16 | 1 |
| 500 MCM-4 AWG | 2.940 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 4.080 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 5.230 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 6.380 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 7.520 | 4.710 | 4.280 | 450 | 5/16 | 1 |
| 750-250 MCM | 4.950 | 4.970 | 4.920 | 550 | 3/8 | 1 |
| 750-250 MCM | 6.380 | 4.970 | 4.920 | 550 | 3/8 | 1 |
| 750-250 MCM | 7.800 | 4.970 | 4.920 | 550 | 3/8 | 1 |
| 750-250 MCM | 9.230 | 4.970 | 4.920 | 550 | 3/8 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Connector Bloks With Mounting Holes, One Side Wire Entry

## IPLM SERIES



## FEATURES

- Wire entry ports on one side only.
- Mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- IPLM Series connectors are insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.
- Mounting holes will accept a 1/4" bolt.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables.
Not recommended for fine-stranded, flexible wire.

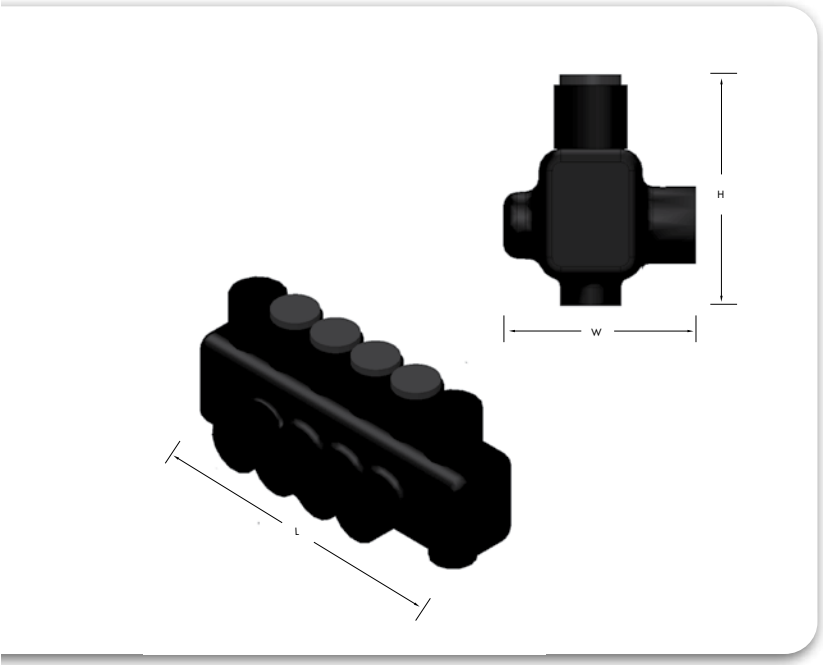
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| **IPLM4-3** | 3 |
| **IPLM4-4** | 4 |
| **IPLM4-5** | 5 |
| **IPLM4-6** | 6 |
| **IPLM4-7** | 7 |
| **IPLM4-10** | 10 |
| **IPLM1/0-3** | 3 |
| **IPLM1/0-4** | 4 |
| **IPLM1/0-5** | 5 |
| **IPLM1/0-6** | 6 |
| **IPLM1/0-8** | 8 |
| **IPLM1/0-9** | 9 |
| **IPLM1/0-10** | 10 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 4-14 AWG | 2.750 | 1.240 | 1.390 | 45 | Slotted | 6 |
| 4-14 AWG | 3.180 | 1.240 | 1.390 | 45 | Slotted | 6 |
| 4-14 AWG | 3.600 | 1.240 | 1.390 | 45 | Slotted | 4 |
| 4-14 AWG | 4.020 | 1.240 | 1.390 | 45 | Slotted | 4 |
| 4-14 AWG | 4.190 | 1.240 | 1.390 | 45 | Slotted | 4 |
| 4-14 AWG | 5.710 | 1.240 | 1.390 | 45 | Slotted | 3 |
| 1/0-14 AWG | 3.460 | 1.550 | 1.820 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 4.110 | 1.550 | 1.820 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 4.760 | 1.550 | 1.820 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 5.410 | 1.550 | 1.820 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 6.710 | 1.550 | 1.820 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 7.520 | 1.550 | 1.820 | 180 | 3/16 | 3 |
| 1/0-14 AWG | 8.010 | 1.550 | 1.820 | 180 | 3/16 | 3 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor With Mounting Holes, Either Side Wire Entry

IPLMD SERIES



## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Supplied with removable access plugs to close the entry port not being used.
- The mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- Insulated with high-dielectric strength plastisol. Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables.
Not recommended for fine-stranded, flexible wire.

**MOUNTING:**
Mounting holes will accept a 1/4″ bolt for
3/0 AWG and a 5/16″ bolt for 250 MCM and 350 MCM.

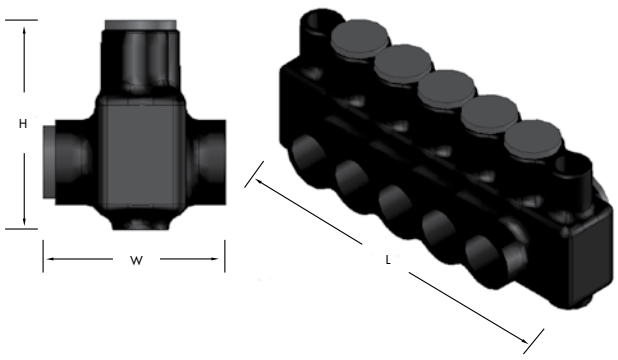
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| IPLMD3/0-3 | 3 |
| IPLMD3/0-4 | 4 |
| IPLMD3/0-5 | 5 |
| IPLMD3/0-6 | 6 |
| IPLMD3/0-7 | 7 |
| IPLMD3/0-8 | 8 |
| IPLMD3/0-9 | 9 |
| IPLMD3/0-10 | 10 |
| IPLMD250-3 | 3 |
| IPLMD250-4 | 4 |
| IPLMD250-5 | 5 |
| IPLMD250-6 | 6 |
| IPLMD250-7 | 7 |
| IPLMD250-8 | 8 |
| IPLMD250-10 | 10 |
| IPLMD250-12 | 12 |
| IPLMD350-3 | 3 |
| IPLMD350-4 | 4 |
| IPLMD350-5 | 5 |
| IPLMD350-6 | 6 |
| IPLMD350-7 | 7 |
| IPLMD350-8 | 8 |
| IPLMD350-10 | 10 |
| IPLMD350-12 | 12 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 3/0-6 AWG | 3.870 | 1.830 | 1.910 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 4.650 | 1.830 | 1.910 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 5.430 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 6.210 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 6.990 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 7.770 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 8.600 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 3/0-6 AWG | 9.330 | 1.830 | 1.910 | 250 | 1/4 | 2 |
| 250 MCM-6 AWG | 4.420 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 5.280 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 6.140 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 7.010 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 7.820 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 8.730 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 10.400 | 2.280 | 2.370 | 360 | 5/16 | 2 |
| 250 MCM-6 AWG | 12.130 | 2.280 | 2.370 | 360 | 5/16 | 1 |
| 350 MCM-6 AWG | 5.120 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 6.170 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 7.220 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 8.270 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 9.320 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 10.370 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 12.470 | 2.410 | 2.770 | 400 | 5/16 | 2 |
| 350 MCM-6 AWG | 14.570 | 2.410 | 2.770 | 400 | 5/16 | 1 |



POLARIS™ INSULATED CONNECTORS

# Multi-Conductor With Mounting Holes, Either Side Wire Entry

IPLMD SERIES CONT'D



## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Supplied with removable access plugs to close the entry port not being used.
- The mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables.
Not recommended for fine-stranded, flexible wire.

**MOUNTING:**
Mounting holes will accept a 1/4" bolt for
3/0 AWG and a 5/16" bolt for 250 MCM and 350 MCM.

All dimensional data is listed in inches.

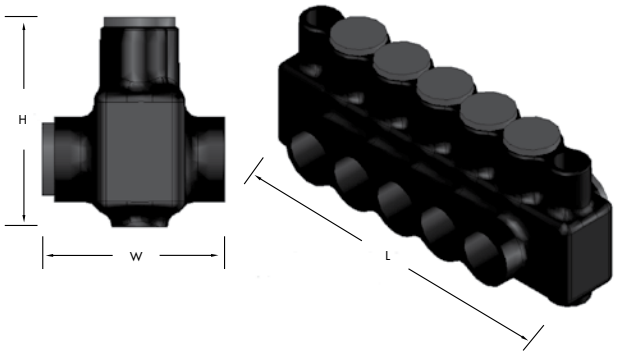
| CAT. NO. | NO. OF PORTS |
|---|---|
| IPLMD500-3 | 3 |
| IPLMD500-4 | 4 |
| IPLMD500-5 | 5 |
| IPLMD500-6 | 6 |
| IPLMD500-7 | 7 |
| IPLMD500-8 | 8 |
| IPLMD500-9 | 9 |
| IPLMD500-10 | 10 |
| IPLMD500-12 | 12 |
| IPLMD600-3 | 3 |
| IPLDM600-4 | 4 |
| IPLMD600-5 | 5 |
| IPLMD600-6 | 6 |
| IPLMD600-8 | 8 |
| IPLMD600-9 | 9 |
| IPLMD600-10 | 10 |
| IPLMD600-12 | 12 |
| IPLMD750-3* | 3 |
| IPLMD750-4* | 4 |
| IPLMD750-5* | 5 |
| IPLMD750-6* | 6 |
| IPLMD750-7* | 7 |
| IPLMD750-8* | 8 |
| IPLMD750-9* | 9 |
| IPLMD750-10* | 10 |
| IPLMD750-12* | 12 |

*750 MCM not UL listed





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 500 MCM-4 AWG | 5.510 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 6.650 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 7.800 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 8.940 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 9.710 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 11.230 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 12.480 | 2.810 | 3.030 | 450 | 5/16 | 2 |
| 500 MCM-4 AWG | 13.520 | 2.810 | 3.030 | 450 | 5/16 | 1 |
| 500 MCM-4 AWG | 15.440 | 2.810 | 3.030 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 5.880 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 7.180 | 2.960 | 3.150 | 550 | 5/16 | |
| 600 MCM-6 AWG | 8.480 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 9.780 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 10.700 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 13.610 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 14.980 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 600 MCM-6 AWG | 17.200 | 2.960 | 3.150 | 550 | 5/16 | 1 |
| 750-250 MCM | 6.320 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 7.750 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 9.180 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 10.600 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 11.650 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 13.450 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 15.050 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 16.300 | 3.410 | 3.540 | 550 | 5/16 | 1 |
| 750-250 MCM | 18.780 | 3.410 | 3.540 | 550 | 5/16 | 1 |



POLARIS™

# Submersible Pedestal Connectors

## ISPB, ISPC SERIES



## FEATURES

- Manufactured from high strength 6061-T6 aluminum alloy, providing premium electrical and mechanical performance.
- Radial tipped set-screws reduce conductor strand damage, and the range taking design allows for many sizes and types of conductors – all in one connector.
- Encapsulated in rubber with a nominal thickness of 125 mils. and high dielectric strength.
- ISPC connectors (clear) allow for an easier installation.
- Abrasion and chemical resistant, UV resistant.
- Will not support combustion.

All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| ISPB350-3 | 3 |
| ISPB350-4 | 4 |
| ISPB350-6 | 6 |
| ISPC350-3 | 3 |
| ISPC350-4 | 4 |
| ISPC350-6 | 6 |
| ISPB600-3 | 3 |
| ISPB600-4 | 4 |
| ISPB600-6 | 6 |

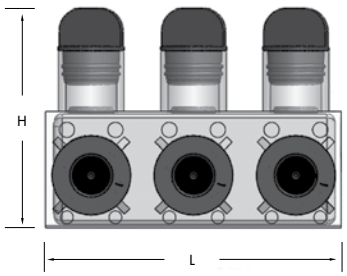
## RATINGS

Meets or exceeds ANSI C119.4 Class A specifications

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
For use with copper and/or aluminum cables.

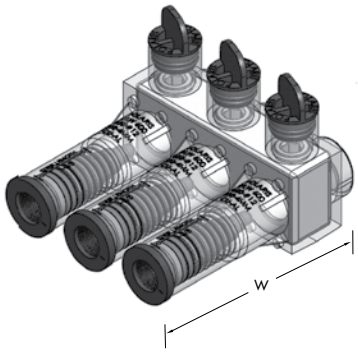
**INSTALLATION INSTRUCTIONS:**
See page 214 for detailed installation information.

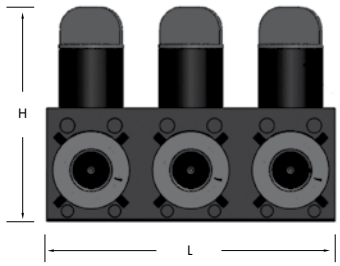


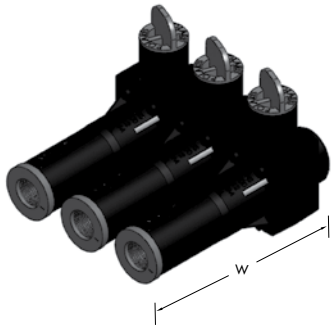




| COLOR | WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| Black | 350 MCM-12 AWG | 3.610 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Black | 350 MCM-12 AWG | 4.800 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Black | 350 MCM-12 AWG | 7.180 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Clear | 350 MCM-12 AWG | 3.610 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Clear | 350 MCM-12 AWG | 4.800 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Clear | 350 MCM-12 AWG | 7.180 | 4.190 | 3.060 | 360 | 5/16 | 1 |
| Black | 600 MCM-12 AWG | 4.870 | 5.460 | 3.130 | 550 | 5/16 | 1 |
| Black | 600 MCM-12 AWG | 6.560 | 5.460 | 3.130 | 550 | 5/16 | 1 |
| Black | 600 MCM-12 AWG | 9.940 | 5.460 | 3.130 | 550 | 5/16 | 1 |



POLARIS™

# Submersible Connectors

## ISPB, ISPBO, ISPBS SERIES



## FEATURES

- Manufactured from high strength 6061-T6 aluminum alloy, providing premium electrical and mechanical performance.
- Radial tipped set-screws reduce conductor strand damage, and the range taking design allows for many sizes and types of conductors – all in one connector.
- Encapsulated in rubber with a nominal thickness of 125 mils.
- Abrasion and chemical resistant, UV resistant
- Will not support combustion.

All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS | FIG. |
|---|---|---|
| **ISPBS2/0** | 2 | 1 |
| **ISPBS350** | 2 | 1 |
| **ISPB2/0-2** | 2 | 2 |
| **ISPB2/0-3** | 3 | 2 |
| **ISPB2/0-4** | 4 | 2 |
| **ISPB2/0-6** | 6 | 2 |
| **ISPBO2/0** | 3 | 3 |

*ISPBS350 - Not UL Listed.

## RATINGS

c UL us

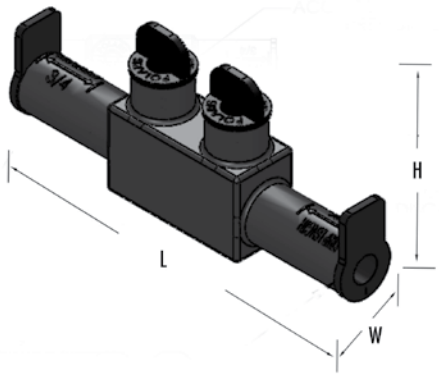
UL Listed 486D Wire Connector.
Meets or exceeds ANSI C119.4 Class A specifications.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Cold temperature rated to -45 °C, rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for copper or aluminum conductors.

**INSTALLATION INSTRUCTIONS:**
See page 216 for detailed installation information.

**FIG. 1**





| COLOR | WIRE RANGE KCMIL | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| Black | 2/0-#14 | 5.05 | 0.88 | 2.1 | | 3/16 | 1 |
| Black | 350-#12 | 8.28 | 1.31 | 3.06 | | 5/16 | 1 |
| Black | 2/0-#14 | 1.93 | 2.65 | 2.10 | | 3/16 | 1 |
| Black | 2/0-#14 | 2.79 | 2.65 | 2.10 | SEE TABLE 1 | 3/16 | 1 |
| Black | 2/0-#14 | 3.65 | 2.65 | 2.10 | | 3/16 | 1 |
| Black | 2/0-#14 | 5.37 | 2.65 | 2.10 | | 3/16 | 1 |
| Black | 2/0-#14 | 2.79 | 4.18 | 2.10 | | 3/16 | 1 |

Table 1

| CONDUCTOR RANGE | INCH-POUNDS |
|---|---|
| #10 - #14 | 35 |
| #8 | 75 |
| 2/0-#6 | 120 |

**FIG. 2**

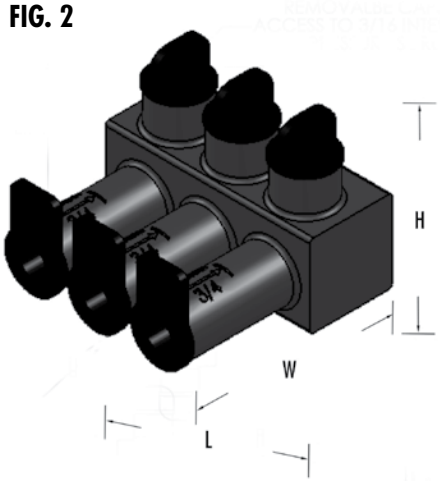
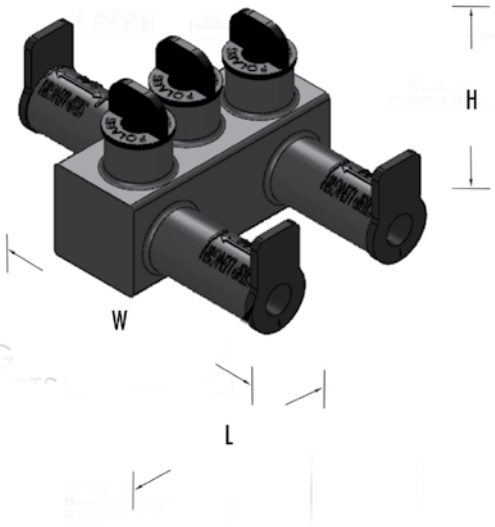



**FIG. 3**



POLARIS™

# Heavy Duty Uninsulated Either Side Wire Entry

## PLH SERIES



## FEATURES

- Connector block is double the size of the standard PL Series connector. Two pressure screws provided for each cable to ensure the best connection possible.
- Heavy duty PLH Series connectors are designed to handle the most demanding applications from 250 MCM to 750 MCM.
- Plated for corrosion resistance.

All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| **PLH750-6** | 6 |
| **PLH750-10** | 10 |

## RATINGS

c UL us

UL Listed 486B Wire Connector.

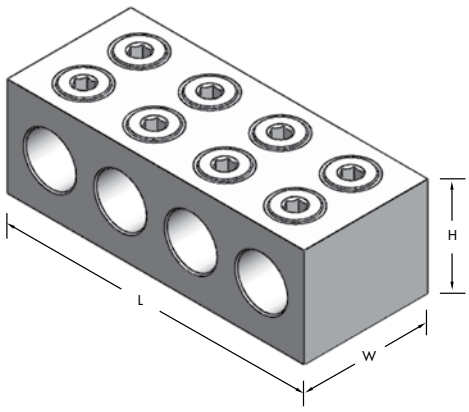
**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 750 MCM - 1/0 AWG | 8.850 | 2.500 | 2.000 | 550 | 5/16 | 1 |
| 750 MCM - 1/0 AWG | 14.550 | 2.500 | 2.000 | 550 | 5/16 | 1 |



POLARIS™

# Uninsulated Multi-Cable Connectors

## PL SERIES



## FEATURES

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Stocked in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

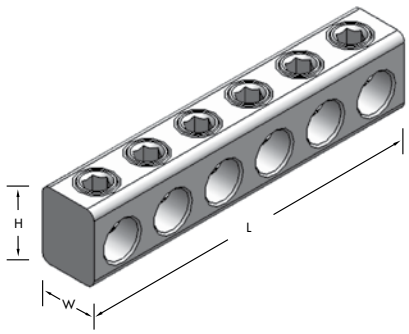
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| PL4-2 | 2 |
| PL4-3 | 3 |
| PL4-4 | 4 |
| PL4-5 | 5 |
| PL4-6 | 6 |
| PL4-8 | 8 |
| PL4-10 | 10 |
| PL4-14 | 14 |
| PL1/0-2 | 2 |
| PL1/0-3 | 3 |
| PL1/0-4 | 4 |
| PL1/0-5 | 5 |
| PL1/0-6 | 6 |
| PL1/0-7 | 7 |
| PL1/0-8 | 8 |
| PL1/0-10 | 10 |
| PL1/0-14 | 14 |
| PL3/0-3 | 3 |
| PL3/0-4 | 4 |
| PL3/0-5 | 5 |
| PL3/0-6 | 6 |
| PL3/0-7 | 7 |
| PL3/0-8 | 8 |
| PL3/0-9 | 9 |
| PL3/0-10 | 10 |
| PL3/0-12 | 12 |
| PL3/0-14 | 14 |
| PL250-2 | 2 |
| PL250-3 | 3 |
| PL250-4 | 4 |
| PL250-5 | 5 |
| PL250-6 | 6 |
| PL250-7 | 7 |
| PL250-8 | 8 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 4-14 AWG | 0.880 | 0.500 | 0.630 | 45 | Slotted | 12 |
| 4-14 AWG | 1.300 | 0.500 | 0.630 | 45 | Slotted | 12 |
| 4-14 AWG | 1.730 | 0.500 | 0.630 | 45 | Slotted | 12 |
| 4-14 AWG | 2.150 | 0.500 | 0.630 | 45 | Slotted | 6 |
| 4-14 AWG | 2.570 | 0.500 | 0.630 | 45 | Slotted | 6 |
| 4-14 AWG | 3.410 | 0.500 | 0.630 | 45 | Slotted | 6 |
| 4-14 AWG | 4.260 | 0.500 | 0.630 | 45 | Slotted | 4 |
| 4-14 AWG | 5.960 | 0.500 | 0.630 | 45 | Slotted | 2 |
| 1/0-14 AWG | 1.350 | 0.630 | 0.880 | 180 | 3/16 | 12 |
| 1/0-14 AWG | 2.000 | 0.630 | 0.880 | 180 | 3/16 | 12 |
| 1/0-14 AWG | 2.650 | 0.630 | 0.880 | 180 | 3/16 | 12 |
| 1/0-14 AWG | 3.300 | 0.630 | 0.880 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 3.950 | 0.630 | 0.880 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 4.610 | 0.630 | 0.880 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 5.250 | 0.630 | 0.880 | 180 | 3/16 | 6 |
| 1/0-14 AWG | 6.550 | 0.630 | 0.880 | 180 | 3/16 | 4 |
| 1/0-14 AWG | 9.150 | 0.630 | 0.880 | 180 | 3/16 | 2 |
| 3/0-6 AWG | 2.380 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 3.160 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 3.940 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 4.720 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 5.490 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 6.280 | 0.690 | 0.940 | 250 | 1/4 | 6 |
| 3/0-6 AWG | 7.050 | 0.690 | 0.940 | 250 | 1/4 | 4 |
| 3/0-6 AWG | 7.840 | 0.690 | 0.940 | 250 | 1/4 | 4 |
| 3/0-6 AWG | 9.400 | 0.690 | 0.940 | 250 | 1/4 | 3 |
| 3/0-6 AWG | 10.960 | 0.690 | 0.940 | 250 | 1/4 | 2 |
| 250 MCM-6 AWG | 1.820 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 2.680 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 3.550 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 4.410 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 5.270 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 6.140 | 0.880 | 1.130 | 360 | 5/16 | 6 |
| 250 MCM-6 AWG | 6.990 | 0.880 | 1.130 | 360 | 5/16 | 6 |



POLARIS™

# Uninsulated Multi-Cable Connectors

## PL SERIES CONT'D



## FEATURES

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Stocked in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

## RATINGS

c UL us

UL Listed 486B Wire Connector.

**TEMPERATURE RATING/VOLTAGE:**
AL9CU. Rated 600V, 90 °C.

**WIRE TYPE:**
Dual rated for use with copper and/or aluminum cables. Not recommended for fine-stranded, flexible wire.

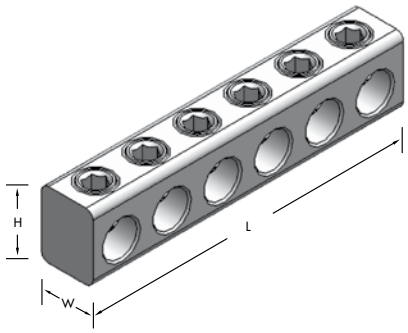
All dimensional data is listed in inches.

| CAT. NO. | NO. OF PORTS |
|---|---|
| **PL250-9** | 9 |
| **PL250-10** | 10 |
| **PL250-11** | 11 |
| **PL250-12** | 12 |
| **PL350-3** | 3 |
| **PL350-4** | 4 |
| **PL350-6** | 6 |
| **PL350-8** | 8 |
| **PL350-10** | 10 |
| **PL500-4** | 4 |
| **PL500-6** | 6 |
| **PL500-7** | 7 |
| **PL500-8** | 8 |
| **PL500-9** | 9 |
| **PL500-10** | 10 |
| **PL750-3** | 3 |
| **PL750-4** | 4 |
| **PL750-6** | 6 |
| **PL750-8** | 8 |





| WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE (IN./LBS.) | HEX SIZE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| 250 MCM-6 AWG | 7.860 | 0.880 | 1.130 | 360 IN/LBS | 5/16 | 4 |
| 250 MCM-6 AWG | 8.720 | 0.880 | 1.130 | 360 IN/LBS | 5/16 | 4 |
| 250 MCM-6 AWG | 9.580 | 0.880 | 1.130 | 360 IN/LBS | 5/16 | 3 |
| 250 MCM-6 AWG | 10.450 | 0.880 | 1.130 | 360 IN/LBS | 5/16 | 3 |
| 350 MCM-6 AWG | 3.220 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 6 |
| 350 MCM-6 AWG | 4.270 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 6 |
| 350 MCM-6 AWG | 6.370 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 6 |
| 350 MCM-6 AWG | 8.470 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 4 |
| 350 MCM-6 AWG | 10.570 | 1.000 | 1.440 | 400 IN/LBS | 5/16 | 2 |
| 500 MCM-4 AWG | 4.860 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 4 |
| 500 MCM-4 AWG | 7.145 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 3 |
| 500 MCM-4 AWG | 8.280 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 3 |
| 500 MCM-4 AWG | 9.440 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 3 |
| 500 MCM-4 AWG | 10.570 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 2 |
| 500 MCM-4 AWG | 11.730 | 1.130 | 1.630 | 450 IN/LBS | 5/16 | 2 |
| 750-250 MCM | 4.570 | 1.440 | 2.000 | 550 IN/LBS | 3/8 | 3 |
| 750-250 MCM | 6.000 | 1.440 | 2.000 | 550 IN/LBS | 3/8 | 3 |
| 750-250 MCM | 8.850 | 1.440 | 2.000 | 550 IN/LBS | 3/8 | 2 |
| 750-250 MCM | 11.700 | 1.440 | 2.000 | 550 IN/LBS | 3/8 | 1 |



POLARIS™

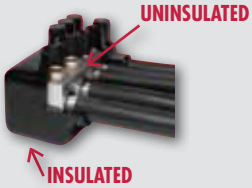
# Custom Designed Insulated Connector Blocks

Let us custom engineer and fabricate a UL Listed insulated block system for your next project. Each connector is made with exact hole size and number for the cable runs being used. You may choose to order a customized version of our IPL Series or add one or more of the options listed below.

The combinations we can create and produce are almost unlimited. Connector size can be up to 22" long also available without insulation. We custom design and machine your connector from your specifications and our engineering and production data.

## BUILD THE CATALOG NUMBER

Create a custom catalog number, follow the checklist and build your catalog number as you go. Call our sales staff at 800-321-5847 with any questions.

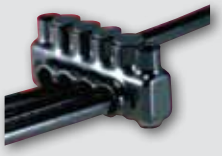



**Insulated/ Uninsulated**

Blocks are covered with a unique plastisol insulation but you are able to have uninsulated.

☐ **INSULATED** BLOCK USE **"I"**

☐ **UNINSULATED** BLOCK USE **"U"**



**Mounting**

Mounting holes are provided in each end of the connector block and are isolated from the block with insulated sleeves.

☐ **YES** ADD **"M"**

☐ **NO** LEAVE BLANK

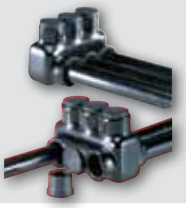
| WIRE RANGE | LETTER DESIGNATION |
|---|---|
| 4-14 | A |
| 1/0-14 | B |
| 3/0-6 | C |
| 250-6 | D |
| 350-6 | E |
| 500-4 | F |
| 600 | J |
| 750-250 | G |
| 1000-500 | H |

**Ports / Wire Size**

**Ports:** How many ports will you need? ___(space for #1)
**Wire Size:** Choose the letter indicating your wire size from the chart to the left:___

**Single Wire Size:**
A. 4 ports 500-4MCM = 4F
Add to the part number: 4F

**Multiple:**
A. 4 ports 500-4MCM = 4F
B. 6 ports 1/0-14 = 6B
C. 2 ports 2250MCM = 2D
Add to the part number: 4F6B2D



**Same/ Opposite Side**

Cable can enter either side of the connector block, based on your requirements. This eliminates having to bend the secondary cable around the connector.

☐ **YES** ADD **"O"**

☐ **NO** LEAVE BLANK



**Stacked**

Wire entry holes on top of the other, allowing the block to be shorter, in length and is ideal for use in small wireways or panels.

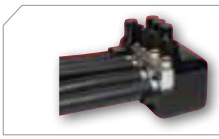
☐ **YES** ADD **"S"**

☐ **NO** LEAVE BLANK





nsi INDUSTRIES



# HOW TO BUILD A CUSTOM POLARIS™ CONNECTOR

## TORQUE CHART (IN./LBS.)

| WIRE SIZE | CONNECTOR SIZE 1000 | 750 | 600 | 500 | 350 | 250 | 3/0 | 1/0 | #4 |
|---|---|---|---|---|---|---|---|---|---|
| 800-1000 | 550 | | | | | | | | |
| 750-600 | 550 | 550 | 550 | | | | | | |
| 500 | 450 | 550 | 450 | 450 | | | | | |
| 400 | | 550 | 425 | 425 | | | | | |
| 350 | | 550 | 400 | 400 | 400 | | | | |
| 250 | | 550 | 360 | 360 | 360 | 360 | | | |
| 4/0 | | 550 | 250 | 250 | 250 | 250 | | | |
| 3/0 | | 550 | 250 | 250 | 250 | 250 | 250 | | |
| 2/0 | | 550 | 180 | 180 | 180 | 180 | 180 | | |
| 1/0 | | 550 | 180 | 180 | 180 | 180 | 180 | 180 | |
| #3-#1 | | | 150 | 150 | 150 | 150 | 150 | 150 | |
| #4-#6 | | | 110 | 110 | 110 | 110 | 110 | 110 | 45 |
| #8 | | | | | | | | 75 | 40 |
| #10-#14 | | | | | | | | 35 | 35 |

## STRIP CHART FOR STANDARD CONNECTORS

| CONNECTOR SIZE | STRIP LENGTH | BOLT DIA. FOR MOUNTING |
|---|---|---|
| 750 H | 3.250 | 5/16 |
| ISRH 750 | 2.312 | 5/16 |
| 750 MCM | 2.000 | 5/16 |
| 600 MCM | 1.625 | 5/16 |
| 500 MCM | 1.625 | 5/16 |
| 350 MCM | 1.375 | 5/16 |
| 250 MCM | 1.250 | 5/16 |
| ISR 250 | 1.125 | 5/16 |
| 3/0 AWG | 1.000 | 1/4 |
| 1/0 AWG | 0.875 | 1/4 |
| 4 AWG | 0.689 | 3/16 |

## ACCESSORIES

| CATALOG NO. | UPC CODE | DESCRIPTION | CONNECTION SIZE | STD. CNT. QTY. |
|---|---|---|---|---|
| SP-4 | 95201 | Set-screw covers | 4 AWG | 15 |
| SP-1/0 | 95202 | Set-screw covers | 1/0 AWG | 15 |
| SP-3/0 | 95203 | Set-screw covers | 3/0 AWG | 15 |
| SP-250 | 95204 | Set-screw covers | 250 MCM | 12 |
| SP-350 | 95205 | Set-screw covers | 350 MCM | 10 |
| SP-500 | 95206 | Set-screw covers | 500 MCM | 8 |
| SP-600 | 78940 | Set-screw covers | 600 MCM | 6 |
| SP-750 | 95207 | Set-screw covers | 750 MCM | 6 |
| CP-3/0 | 95210 | Cable port plugs | 3/0 AWG | 15 |
| CP-250 | 95211 | Cable port plugs | 250 MCM | 10 |
| CP-350 | 95212 | Cable port plugs | 350 MCM | 8 |
| CP-500 | 95213 | Cable port plugs | 500 MCM | 6 |
| CP-600 | 78943 | Cable port plugs | 600 MCM | 4 |
| CP-750 | 95214 | Cable port plugs | 750 MCM | 4 |

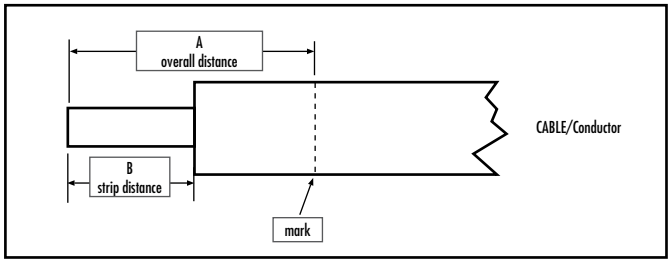


## POLARIS BLUE™ SUBMERSIBLE & DIRECT BURIAL CONNECTORS

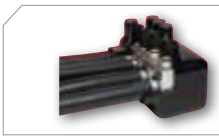
1. Refer to the installation chart on the other side for; overall distances, strip lengths, and tightening torque values.
2. Conductor must have insulation acceptable for direct burial.
3. Wipe off any foreign material (dirt, water, oil, etc.) on insulation of conductor to be spliced.
4. Mark the conductor insulation with the proper overall distance for the connector model number being used.
5. Mark the conductor insulation with the proper strip length for the connector model number being used.
6. Remove the conductor insulation up to the marked strip length, be sure not to "score" or "nick" the conductor.
7. Using the oxide inhibitor provided, lubricate the conductor insulation by lightly coating the exposed conductor and insulation up to the marked overall distance.

   —— NOTE: Step 7 is optional, but will make installation quick and easy. ——
8. Back off pressure screws enough to allow the stripped conductor to enter the connector block.
9. Insert the conductor into the connector, slide the connector over the conductor until the end of the connector insulation is within 1/8" of the overall mark on the conductor insulation.
10. Tighten the pressure screws to the proper torque value for the connector model number being used.
11. Insert the caps to cover the pressure screws. Press caps firmly into place.
12. Do not alter the connector to the connector insulation in any manner!
13. Use only the pre-installed oxide inhibitor.
14. Caps are not a sealing mechanism in the wire entry ports, all wire entry ports must have a properly sized conductor installed.

| PART NO. | WIRE RANGE | (A)OVERALL DISTANCE (IN.) | (B)STRIP LENGTH (IN.) | TIGHTENING TORQUE (IN./LBS.) |
|---|---|---|---|---|
| ITW 250 | 250mcm- 4/0 AWG | 3 9/16 | 1 1/8 | 360 |
| IPLW 250- | 250mcm- 4/0 AWG | 3 9/16 | 1 1/8 | 360 |
| ISW 250 | 250mcm- 4/0 AWG | 3 9/16 | 1 1/8 | 360 |
| ITW 3/0- | 3/0 AWG-2/0 AWG-1/0 AWG | 3 5/16 | 15/16 | 250 |
| IPLW 3/0- | 3/0 AWG-2/0 AWG-1/0 AWG | 3 5/16 | 15/16 | 250 |
| ISW 3/0 | 3/0 AWG-2/0 AWG-1/0 AWG | 3 5/16 | 15/16 | 250 |
| ITW 1 | #1 AWG - #2 AWG | 3 1/4 | 15/16 | 150 |
| IPLW 1- | #1 AWG - #2 AWG | 3 1/4 | 15/16 | 150 |
| ISW 1 | #1 AWG - #2 AWG | 3 1/4 | 15/16 | 150 |
| ITW 4 | #4 AWG - #6 AWG | 3 | 3/4 | 45 |
| IPLW 4- | #4 AWG - #6 AWG | 3 | 3/4 | 45 |
| ISW 4 | #4 AWG - #6 AWG | 3 1/16 | 13/16 | 45 |




The UL Listing is for stranded wire only, AL-CU 600V maximum.
The connector and insulation are rated for 90° C.
The connectors are intended for Submersible/Direct Burial/Below Grade Applications





## POLARIS™ ISPB & ISPC SUBMERSIBLE PEDESTAL CONNECTORS

1. Remove cable insulation 1-1/8" from end of conductor (insulation strip length imprinted on conductor port).
2. Wire brush bare conductor.
3. Remove conductor sleeve from connector.
4. Select and cutoff the correct step end at tip of arrow on the sleeve. Make sure to cut sleeve straight across the end of step. Discard sleeve for 300 and 350 MCM.
5. Reinsert the conductor sleeve (rocket) if required.
6. Remove set-screw access plug and loosen set-screw to allow cable insertion.
7. Insert conductor into the cable outlet or rocket until conductor hits the back of the connector and tighten set-screw to the recommended torque (Table 1).
8. Replace set-screw access plug.

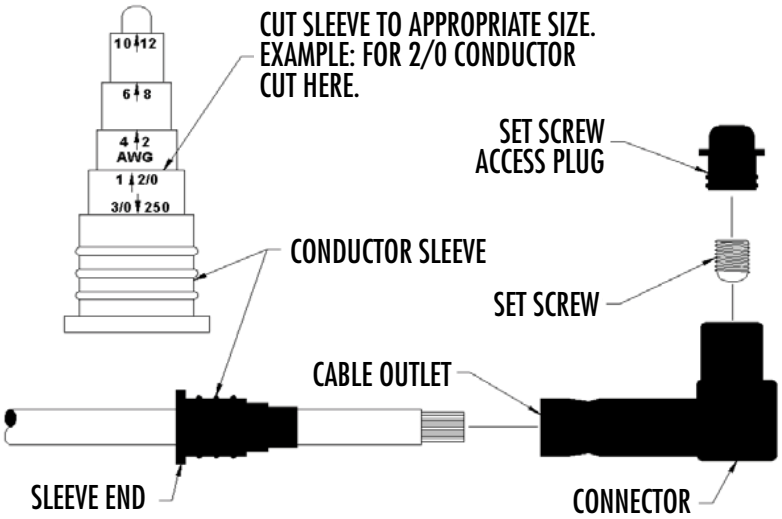



Table 1

| CONDUCTOR RANGE | INCH-POUNDS |
|---|---|
| #12 - #6 | 135 |
| #4 - 3/0 | 210 |
| 4/0 - 350 | 360 |

# Installation Instructions

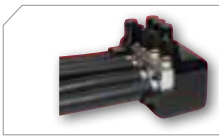
Wire insulation must be stripped in accordance with the Standard Connector Strip Length Chart below. The wire insulation on a properly installed connector must be inside the conductor port no less than 3/8 inch. Pressure screws MUST be secured at the torque value given on the Torque Charts corresponding to the connector, wire size and classification shown on the reverse side. The UL listing is for stranded wire only, CU 600 Volts maximum for building wiring and 1000 volts maximum for signs or luminaries. The connector and insulation temperature rating is 90˚C.

| STRIP LENGTH CHART | |
|---|---|
| CONNECTOR SIZE | STRIP LENGTH (IN) |
| 3/0 | 1 |
| #1 | 7/8 |
| #6 | 11/16 |

## TORQUE CHART FOR POLARIS GREY™ CONNECTORS IN INCH POUNDS

| BUILDING WIRE CLASS B, C, D WIRE SIZE AWG | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTOR | 3/0 | 2/0 | 1/0 | #1 | #2 | #3 | #4 | #6 | #8 | #10 | #12 | #14 |
| 3/0 | 250 | 180 | 180 | 120 | 120 | 120 | 110 | | | | | |
| #1 | | | | 150 | 150 | 150 | 110 | 110 | 75 | 45 | | |
| #6 | | | | | | | | 45 | 45 | 45 | 45 | 45 |

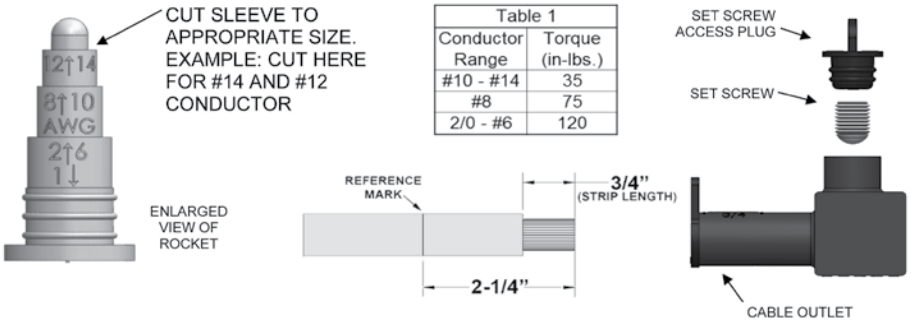
| FLEXIBLE WIRE CLASS K, M, I WIRE SIZE AWG | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTOR | 3/0 | 2/0 | 1/0 | #1 | #2 | #3 | #4 | #6 | #8 | #10 | #12 | #14 |
| 3/0 | | 180 | 180 | 120 | 120 | | | | | | | |
| #1 | | | | | 150 | 150 | 110 | 110 | 75 | 45 | | |
| #6 | | | | | | | | 45 | 45 | 45 | 45 | 45 |





## POLARIS™ ISPB

1. Conductor must have insulation acceptable for wet or damp locations.
2. Wipe off any foreign material (dirt, water, oil, etc.) on insulation of conductor to be spliced.
3. Mark the conductor insulation 3/4" and 2-1/4" from the end. Insulation strip length imprinted on connector.
4. Remove the conductor insulation up to the 3/4" strip length, be sure not to "score" or "nick" conductor (bare wire). Tip - For wire sizes #1 and larger bevel edge of insulation.
5. Wire brush bare conductor.
6. Remove conductor sleeve (rocket) from connector. Discard sleeve for 1/0-2/0 AWG (if discarded go to step 9).
7. Select and cutoff the step appropriate for size indicated on the sleeve. Make sure to cut sleeve straight across the end of teh appropriate size step.
8. Reinsert the conductor sleeve (Rocket).
9. Remove set-screw access plug and loosen set-screw to allow conductor insertion.
10. For easier assembly lubricate the exterior of conductor insulation with the included dielectric silicone grease.
11. Insert conductor into the cable outlet or rocket until the 2-1/4" reference mark is even with end of cable outlet. The end of the conductor should hit back of connector.
12. Tighten the pressure screws to the recommended torque below. (Table 1)
13. Replace set-screw access plug.




| Table 1 | |
|---|---|
| Conductor Range | Torque (in-lbs.) |
| #10 - #14 | 35 |
| #8 | 75 |
| 2/0 - #6 | 120 |

| Table 1 | |
|---|---|
| CONDUCTOR RANGE | INCH-POUNDS |
| #10 - #14 | 35 |
| #8 | 75 |
| 2/0-#6 | 120 |





# SPLICING

EASY-SPLICE™

# Wrap-Around Gel Splice Kits

## WAGS SERIES



## FEATURES

- Wrap-around gel splice closure sleeves quickly insulate and seal buried electrical connections rated up to 1,000 volts.
- Engineered to handle direct burial and manhole applications, these splice enclosure sleeves are equally well suited for insulation and jacket repair.
- Simply wrap and snap the sleeve on any cable in the use range.
- The sealant gel in the sleeve seals on contact.
- The splice closure sleeve can be applied on all common compression connectors and low voltage cables, as well as in-line mechanical connectors.

## RATINGS

**APPLICATION:**
Qualified to ANSI C119.1-1986 for underground splicing.

**RATING:**
Insulate and seal buried electrical connections rated up to 1,000 volts.

A minimum seal length is required on each side of the connector opening or jacket damage.

Use these guidelines for minimum seal distance:
WAGS-4/0 series: 1.50″ each side
WAGS-500 series: 2.00″ each side
WAGS-750 series: 3.00″ each side

All dimensional data is listed in inches.

| CAT. NO. | CONDUCTOR SIZE | GENERAL USE DIA. LENGTH | SLEEVE LENGTH | MAX. CONDUCTOR OPENING | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **WAGS-4/0-4** | 4/0-14 AWG | 0.15-0.70 (4-18) | 4.00 (100) | 1.00 (25) | 3 |
| **WAGS-4/0-6** | 4/0-14 AWG | 0.15-0.70 (4-18) | 6.00 (150) | 3.00 (75) | 3 |
| **WAGS-4/0-8** | 4/0-14 AWG | 0.15-0.70 (4-18) | 8.00 (200) | 5.00 (125) | 3 |
| **WAGS-4/0-10** | 4/0-14 AWG | 0.15-0.70 (4-18) | 10.00 (250) | 7.00 (175) | 3 |
| **WAGS-500-8** | 500 MCM-6 AWG | 0.30-1.30 (10-33) | 8.00 (200) | 4.00 (100) | 3 |
| **WAGS-500-10** | 500 MCM-6 AWG | 0.30-1.30 (10-33) | 10.00 (250) | 6.00 (150) | 3 |
| **WAGS-750-10** | 750-250 MCM | 0.80-1.50 (20-38) | 10.00 (250) | 4.00 (100) | 3 |
| **WAGS-750-14** | 750-250 MCM | 0.80-1.50 (20-38) | 14.00 (355) | 4.00 (100) | 3 |

EASY-SPLICE™

# Wrap-Around UF Splice Kit

ESUF SERIES





## FEATURES

- Wrap-around UF splice kit provides a quick and convenient method of splicing underground feeder (UF) cable.
- Convenient wrap-around design and fast installation. No heating or waiting for compounds to cure.
- The unique sealing gel entirely encapsulates the splice, completely sealing out moisture and other contaminants.
- Kit includes connector and closure.

## RATINGS

**RATING:**
The splice kit is rated for 600V applications.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | LENGTH (L) | STD. CTN. QTY. |
|---|---|---|---|
| **ESUF** | 14/2 To 8/3 with ground | 8.000 | 3 |

EASY-SPLICE™

# In-Line Gel Splice Kit With Connector

ESGS SERIES



## FEATURES

- In-line gel splice kit provides a sealed splice for underground, buried and overhead applications.
- Closure offers a fast and simple method for splicing, insulating and environmentally sealing low voltage cable splices.
- Simply install the connector on a copper or aluminum cable, place it in the closure, and snap closed.
- The splice kit is watertight for use in all locations.
- Sealing and corrosion protection provided by sealant gel.

## RATINGS

**TEMPERATURE RATING:**
-40 °C to 90 °C (-40 °F to 194 °F), 1000V.

**APPLICATION:**
Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **ESGS-4/0** | #2 – 4/0 AWG | 4.229 | 1.973 | 1.097 | 3 |

EASY-SPLICE™

# Gel Tap Splice Kit With Connector

ESGTS SERIES





## FEATURES

- Fast and simple method for connecting, insulating, and environmentally sealing low-voltage splices.
- Designed for underground and overhead environments and is useful for street lighting applications.
- The kit's dual-rated mechanical connector splices a wide range of cables, including copper and aluminum.
- Four port design allows maximum inventory flexibility.
- Sealant gel protects the connection from moisture ingress, corrosion and pollution.
- Hinged splice closure can be installed over the connector in seconds by simply snapping the cover shut.

## RATINGS

**TEMPERATURE RATING:**
-40 °C to 90 °C (-40 °F to 194 °F), 1000V.

**APPLICATION:**
Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **ESGTS-2** | #14 – #2 AWG | 2.750 | 1.625 | 1.063 | 3 |
| **ESGTS-2/0** | #14 – 2/0 AWG | 4.250 | 2.000 | 1.188 | 3 |

EASY-SPLICE™

# Gel Stub Splice Kit With Connector

## ESSLK SERIES



## FEATURES

- Perfect for street light connections.
- Accepts wires from #14 to 2/0 AWG (feeder cable). Use the single port that accepts #14 to #6 AWG to power the light.
- Specially formulated material provides excellent abrasion resistance, insulation value and UV resistance.
- The cap is clear to allow visual inspection of connector positioning during installation and connector performance during service life.
- Corrosion protection is provided by the sealant gel.

## RATINGS

c UL us

**TEMPERATURE RATING:**
-40 °C to 90 °C.

**APPLICATION:**
Gel stub splice kit insulates, seals and protects stub splice connections up to 1,000 volts.

**INSTALLATION:**
To install, simply push the cover down over the connection and snap the clamp closed.

Kit includes a UL listed connector for use with copper and/or aluminum conductors, a gel filled cap and a cap clamp.

All dimensional data is listed in inches.

| CAT. NO | WIRE RANGE | | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TORQUE VALUE | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | HOLE A | HOLE B | | | | HOLE A | HOLE B | |
| **ESSLK-2/0** | 14-2/0 AWG | 6-14 AWG | 2.760 | 1.660 | 1.185 | 120-180IN/ Lbs | 120-150IN/ Lbs | 3 |

| TESTING | TEST CONDITIONS |
|---|---|
| Chemical Resistance | Astm D543, Sulfuric Acid, Sodium Hydroxide, Transformer And Motor Oil |
| Ozone Resistance | Astm D1149, 120 Hours @ 40˚C, 50Pphm |
| Accelerated Aging | Astm D2671 |
| Uv Resistance | Astm G154, Uvb, 4,000 Hours On/Off Cycle |
| Abrasion Resistance | 2040 Gm Wt., 4,000 Cycles, 5% Max Thickness Loss |

EASY-SPLICE™

# H-Tap Gel Splice Covers With Connector

## ESGHS SERIES





## FEATURES

- Low-voltage H-frame closure insulates and seals low-voltage cable-taps and and splices made with H-frame compression connectors.
- The closure utilizes sealing gel material to seal and protect the connection from moisture ingress, corrosion and pollution.
- H tap gel splice covers do not include connector.

## RATINGS

**TEMPERATURE RATING:**
-40 °C to 90 °C.
1000V, UV resistant.
Qualified to ANSI C119.1-1986 for underground splicing.

**APPLICATION:**
The low-voltage H-frame closure is ideal for both underground and overhead applications and is especially useful for street lighting applications.

**INSTALLATION:**
To install, simply place the connection on the closure and press the closure together.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| | MAIN | TAP | | | | |
| **ESGHS-BG** | 6-2 AWG | 14-8 AWG | 2.700 | 1.583 | 1.055 | 3 |
| **ESGHS-O** | 2-2/0 AWG | 14-6 AWG | 4.230 | 1.988 | 1.083 | 3 |
| **ESGHS-N** | 350 MCM | 4/0 AWG | 6.000 | 3.240 | 2.110 | 3 |

| ESGHS-0 APPROVED CONNECTORS | | | | |
|---|---|---|---|---|
| Blackburn WR139 | Burndy YH0-1 | Homac 0B22 | **NSi WRD139** | T&B 63110 |
| Blackburn WR159 | Burndy YH0-2 | Homac 0B44 | **NSi WRD159** | UTILCO HT1 |
| Blackburn WR179 | Burndy YH0 100 | Homac 0B102 | **NSi WRD179** | UTILCO HT2 |
| Blackburn WR199 | Burndy YH0 125 | Homac 0B103 | **NSi WRD199** | |
| | Burndy YH0 150 | | | |

| ESGHS-BG APPROVED CONNECTORS | |
|---|---|
| Blackburn WR9 | NSi WR9 |
| Burndy YPC2A8U | T&B 63105 |
| Homac UB214 | |

EASY-SPLICE™

# Push-On Gel Stub Splice Kits

GSS SERIES



## FEATURES

- Quickly and conveniently insulate, seal, and protect stub splice connections up to 1,000 volts.
- Specially formulated material provides excellent abrasion resistance, insulation value, and UV resistance.
- Each cap size is designed to fit a wide range of cable sizes, the expandable design keeps the cap as small as possible allowing it to expand only as much as needed to fit.
- The GSS-10 kit is designed for three phases in one kit.
- It includes one gel filled cap, one cap clamp, and one phase separator.
- The remaining kits include three of each – one per phase.

## RATINGS

c UL us

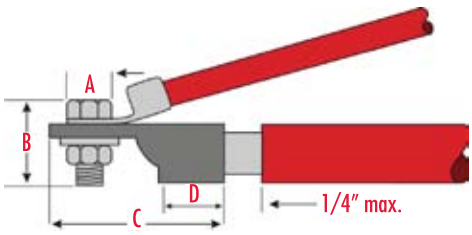
**TEMPERATURE RATING:**
105 °C.

**APPLICATION:**
Insulate, seal, and protect stub splice connections up to 1,000 volts. The robust yet compact design is engineered to handle the harsh environment of motor and many other connection applications (including street lights).

**INSTALLATION:**
GSS connector kits provide the fastest installation. Simply slide the cover down over the connection and snap the clamp closed. Sealant gel is already in the cap.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | MAX. BOLT DIMENSION WIDTH (A) | MAX. BOLT DIMENSION LENGTH (B) | MAX. LUG DIMENSION TOTAL LENGTH (C) | MAX. LUG DIMENSION BARREL LENGTH (D) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **GSS-10** | 16-10 AWG | 0.375 | 0.500 | 1.000 | 0.500 | 5 |
| **GSS-2** | 8-2 AWG | 0.625 | 1.000 | 2.000 | 1.000 | 5 |
| **GSS-4/0** | 2-4/0 AWG | 0.850 | 1.300 | 3.000 | 1.500 | 5 |
| **GSS-500** | 250-500 MCM | 1.100 | 1.850 | 5.000 | 2.000 | 5 |








nsi INDUSTRIES

EASY-SPLICE™

# Direct Burial Roll-On Splice Sleeve

ROS SERIES



## FEATURES

- Easy "roll-on" way to insulate and seal cable connections up to 1,000 volts.
- The gripping force of the EPDM elastomer combines with high performance sealant to form a water resistant, UV resistant insulating sleeve appropriate for direct burial application over in-line compression connectors.
- Ideal for use where gas or electric heating devices are not approved.
- RUS accepted for use as a secondary tap or splice cover.
- Each kit includes one Easy-Splice™ sleeve and sealant strips.

## RATINGS

**RATING:**
Qualified to ANSI C119.1-1986. CSA certified to C22.2 No. 198.2. UL 486D listed, suitable for direct burial.

**APPLICATION:**
For use on standard poly or elastomeric-insulated cables. Insulates and seals in-line compression connectors or terminal lugs. Cable can be energized immediately.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | CABLE O.D. | SLEEVE LENGTH | MAX. CONNECTOR LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **ROS-2/0** | 8-2/0 AWG | 0.22-0.68 | 8.00 | 5.00 | 5 |
| **ROS-250** | 1/0 AWG-250 MCM | 0.50-0.90 | 9.50 | 4.50 | 5 |
| **ROS-600** | 250-600 MCM | 0.70-1.20 | 12.00 | 7.00 | 5 |



EASY-SPLICE™

# Direct Burial Splice Kit With Rubber Cover

RSK SERIES



## FEATURES

- Dual-rated for use with copper and aluminum cable, these kits consist of an in-line mechanical set-screw connector pre-filled with oxide inhibitor and an EPDM rubber insulating cover to ensure a watertight seal.

## RATINGS

**RATING:**
600V.

**APPLICATION:**
street lights, motor connection, irrigation systems, HVAC, outdoor lighting, and over wire nuts for a secure seal.

All dimensional data is listed in inches.

| CAT. NO. | WIRE RANGE | CONNECTOR LENGTH | STD. CTN. QTY. |
|---|---|---|---|
| **RSK-2/0** | #14 – 2/0 AWG | 1.880 | 12 |
| **RSK-350** | #6 AWG – 350 MCM | 3.000 | 6 |
| **RSK-500** | 2/0 AWG – 500 MCM | 3.190 | 6 |
| **RSK-750** | 250 MCM – 750 MCM | 6.250 | 3 |

EASY-SPLICE™

# Self Sealing UF Splice Kit and Hot Melt Sealant Sleeves

SKSS & HMSS Series





## SELF SEALING UF SPLICE KIT

- Fully waterproof, submersible and re-enterable splice, through the use of uniquely designed interference fit covers.
- Kit comes complete with a connector, silicone and cover. AWG UF cable.

All dimensional data is listed in inches.

| NO. OF CONDUCTORS | CAT. NO. | WIRE RANGE | CONNECTOR LENGTH | STD. CTN. QTY. |
|---|---|---|---|---|
| 2 | **SKSS-2** | 14/2-10/2 | 9.500 | 12 |
| 3 | **SKSS-3** | 14/3-10/3 | 9.500 | 12 |

## HOT MELT SEALANT SLEEVES

- Used to provide a cable block in multi-conductor cables.



## RATINGS

**INSTALLATION:**
Use a minimum of one sleeve for every two cable conductors. Install HWHS or CRS product over HMSS sealant sleeves to melt sealant sleeves and provide cable block.

All dimensional data is listed in inches.

| CAT. NO. | LENGTH | INSIDE DIA. | NO. OF SLEEVES/CONDUCTOR | STD. CTN. QTY. |
|---|---|---|---|---|
| **HMSS-4-40** | 1.75 | 0.160 | #24 – #20 AWG: Use 1 Sleeve/ 2 Conductors | 100 |
| | 1.75 | 0.160 | #14 – #12 AWG: Use 1 Sleeve/ Conductor | 100 |

EASY-SPLICE™

# Direct Burial/ Submersible Splice Kits With Heat Shrink

SK SERIES



## FEATURES

### 1. COPPER BUTT SPLICE KITS

Mechanical copper butt splice and a heavy wall heat shrink tubing to create a fully insulated splice for copper conductors only.

### 2. DUAL RATED BUTT SPLICE KITS

Mechanical dual rated splice and matched heavy wall heat shrink tubing to create an insulated splice for copper and/or aluminum cables.

### 3. UF CABLE SPLICE KIT

For simplified splicing of UF cable designed with heavy wall heat shrink with sealant. This kit will accommodate 14/3 through 8/3 with ground UF cable and create a direct burial splice. Contains one four-position connector.

### 4. UF STRETCHER KIT

Eliminates the need for using two connectors and a short piece of cable when repairing damaged UF cable. Includes one 11.5" connector that will accommodate 14/3 without GRD minimum and 8/3 with GRD maximum. 600 Volt, 105°C. Utilizes heavy wall shrink with sealant for a quick and reliable repair.

## RATINGS

**TEMPERATURE RATING:**
105 °C.
600V Max.

| 1 | 2 |
|---|---|
|  |  |
| **3** | **4** |
|  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **SKCB-8** | 1 | #14 to #8 AWG | 24 |
| **SKCB-2** | 1 | #8 to #2 AWG | 24 |
| **SKAB-2** | 2 | #8 to #2 AWG | 24 |
| **SKAB-0** | 2 | #6 to 1/0 AWG | 24 |
| **SKAB-250** | 2 | 1/0 AWG to 250 MCM | 12 |
| **SKDB** | 3 | 14/3 to 8/3 | 24 |
| **SKUF** | 4 | 14/3 to 8/3 | 12 |

EASY-SPLICE™

# Heat Shrinkable End Caps

HSC SERIES





## FEATURES

- These caps replace greases, tapes, epoxy, encapsulation, or dips. In most sizes, installation may be accomplished in less than one minute.
- Heat-shrinkable end caps provide for efficient and positive cable end sealing.
- Made of thermally stabilized polyolefin, the interior of the HSC is coated with a meltable sealant to assure a watertight seal, complete insulation, abrasion and corrosion resistance.
- Seals may be affected over lead, steel, aluminum, copper and all standard plastic and elastomeric insulating materials and conduit.
- HSC end sealing caps can be used as a live seal for cables carrying up to 1,000V.
- They can also be used as end seals for storing and pulling de-energized cable.

## RATINGS

HSC end sealing caps are qualified to ANSI C119.
1-1986 and rated to ICEA electrical withstand test for 1,000 volts.

All dimensional data is listed in inches.

| CAT. NO. | CONDUCTOR SIZE | GENERAL USE RANGE | | STD. CTN. QTY. |
|---|---|---|---|---|
| | | MAX. | MIN. | |
| **HSC-70** | 6-3/0 AWG | 0.700 | 0.300 | 10 |
| **HSC-125** | 4/0 AWG-750 MCM | 1.250 | 0.650 | 10 |
| **HSC-195** | 750-1500 MCM | 1.950 | 1.050 | 10 |
| **HSC-450** | – | 4.500 | 2.950 | 2 |

EASY-SPLICE™

# Heavy Wall Heat Shrink For Direct Burial And Submersible

## HWHS SERIES



## FEATURES

- Made of specially formulated polyolefin irradiated and thermally stabilized to give the material "elastic memory".
- When a proper amount of heat is directly applied to the shrink sleeve, it will permanently shrink to its original unexpanded diameter tightly cover and "mold" itself into irregular shapes
- The interior of the sleeve is coated with an adhesive that assures a watertight seal after shrinking
- For use on standard poly- or elastomeric-insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring.
- RUS accepted for use as a secondary tap or splice cover. May be used for jacket repair on cables up to 35 kV
- Heavy wall heat shrink is also available without sealant. Medium wall heat shrink and flame retardant heavy wall heat shrink also available, with or without sealant (not UL Listed)

## RATINGS

UL 486D Listed
CSA C22.2

**TEMPERATURE RATING:**
121-135 °C, 1000V.

**APPLICATION:**
Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.

**CONNECTORS UP TO 6 INCHES:**
Recomended cut length = Connector length + 4 inches.

**CONNECTORS OVER 6 INCHES:**
Recomended cut length = Connector length + 5 inches.

All dimensional data is listed in inches.

| CAT. NO. | SEALABLE WIRE RANGE |
|---|---|
| HWHS14-6-6 | 14-6 AWG |
| HWHS14-6-12 | 14-6 AWG |
| HWHS14-6-48 | 14-6 AWG |
| HWHS8-2-6 | 8-2 AWG |
| HWHS8-2-12 | 8-2 AWG |
| HWHS8-2-48 | 8-2 AWG |
| HWHS6-40-4 | 6-4/0 AWG |
| HWHS6-40-6 | 6-4/0 AWG |
| HWHS6-40-9 | 6-4/0 AWG |
| HWHS6-40-12 | 6-4/0 AWG |
| HWHS6-40-48 | 6-4/0 AWG |
| HWHS2-500-4 | 2 AWG - 500 MCM |
| HWHS2-500-6 | 2 AWG - 500 MCM |
| HWHS2-500-8 | 2 AWG - 500 MCM |
| HWHS2-500-9 | 2 AWG - 500 MCM |
| HWHS2-500-12 | 2 AWG - 500 MCM |
| HWHS2-500-48 | 2 AWG - 500 MCM |
| HWHS20-750-6 | 2/0 AWG - 750 MCM |
| HWHS20-750-9 | 2/0 AWG - 750 MCM |
| HWHS20-750-12 | 2/0 AWG - 750 MCM |
| HWHS20-750-48 | 2/0 AWG - 750 MCM |
| HWHS250-1000-6 | 250-1000 MCM |
| HWHS250-1000-9 | 250-1000 MCM |
| HWHS250-1000-12 | 250-1000 MCM |
| HWHS250-1000-48 | 250-1000 MCM |
| HWHS500-1500-9 | 500-1500 MCM |
| HWHS500-1500-12 | 500-1500 MCM |
| HWHS500-1500-48 | 500-1500 MCM |
| HWHS800-2000-12 | 800-2000 MCM |
| HWHS800-2000-48 | 800-2000 MCM |
| HWHS1500-2500-12 | 1500-2500 MCM |
| HWHS1500-2500-48 | 1500-2500 MCM |





| LENGTH | GENERAL USE RANGE | | MAX. CONNECTOR O.D. | MIN. SEAL LENGTH PER SIDE | STD. PKG. QTY. |
|---|---|---|---|---|---|
| | RECOVERED | EXPANDED | | | |
| 6 | 0.130 | 0.390 | 0.290 | 1.500 | 3 |
| 12 | 0.130 | 0.390 | 0.290 | 1.500 | 3 |
| 48 | 0.130 | 0.390 | 0.290 | 1.500 | 3 |
| 6 | 0.170 | 0.550 | 0.410 | 2.000 | 3 |
| 12 | 0.170 | 0.550 | 0.410 | 2.000 | 3 |
| 48 | 0.170 | 0.550 | 0.410 | 2.000 | 3 |
| 4 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 6 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 9 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 12 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 48 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| 4 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 6 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 8 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 9 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 12 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 48 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| 6 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |
| 9 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |
| 12 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |
| 48 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |
| 6 | 0.700 | 1.960 | 1.500 | 2.000 | 3 |
| 9 | 0.700 | 1.960 | 1.500 | 2.000 | 3 |
| 12 | 0.700 | 1.960 | 1.500 | 2.000 | 3 |
| 48 | 0.700 | 1.960 | 1.500 | 2.000 | 3 |
| 9 | 0.860 | 2.480 | 1.840 | 2.500 | 3 |
| 12 | 0.860 | 2.480 | 1.840 | 2.500 | 3 |
| 48 | 0.860 | 2.480 | 1.840 | 2.500 | 3 |
| 12 | 1.290 | 3.930 | - | 2.500 | 3 |
| 48 | 1.290 | 3.930 | - | 2.500 | 3 |
| 12 | 1.490 | 4.640 | - | 2.500 | 3 |
| 48 | 1.490 | 4.640 | - | 2.500 | 3 |

EASY-SPLICE™

# Thin-Wall Heat Shrink Kits

## THK SERIES



## FEATURES

- Kits have been carefully constructed to include the most common sizes and types in their category.
- Cases are made of extremely durable polypropylene and have heat sealed hinges.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.

All dimensional data is listed in inches.

| KIT CAT. NO. | KIT CONTENTS | | LENGTHS | STD. CTN. QTY. |
|---|---|---|---|---|
| | CAT. NO. | QTY. | | |
| THK | **TWHS-125-6** | 25 | 6 | 1 |
| | **TWHS-187-6** | 25 | | 1 |
| | **TWHS-250-6** | 20 | | 1 |
| | **TWHS-375-6** | 12 | | 1 |
| | **TWHS-500-6** | 7 | | 1 |
| | **TWHS-750-6** | 5 | | 1 |

EASY-SPLICE™

# Heavy Wall Heat Shrink Kits

## HHK SERIES





## FEATURES

- Kits have been carefully constructed to include the four most common sizes of heavy wall heat shrink 6" lengths.
- Sealant included.

## RATINGS

All dimensional data is listed in inches.

| KIT CAT. NO. | CAT. NO. | SEALABLE WIRE RANGE | LENGTH | GENERAL USE RANGE | | MAX. CONNECTOR O.D. | MIN. SEAL LENGTH PER SIDE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | | | RECOVERED | EXPANDED | | | |
| HHK | **HWHS 8-2-6** | 8-2 AWG | 6 | 0.170 | 0.550 | 0.410 | 2.000 | 9 |
| | **HWHS 6-40-6** | 6-4/0 AWG | 6 | 0.250 | 0.860 | 0.690 | 2.000 | 3 |
| | **HWHS 2-500-6** | 2 AWG - 500 MCM | 6 | 0.350 | 1.220 | 1.060 | 2.000 | 3 |
| | **HWHS 20-750-6** | 2/0 AWG - 750 MCM | 6 | 0.510 | 1.730 | 1.300 | 2.000 | 3 |

EASY-SPLICE™

# Thin-Wall Tubing

## TWHS SERIES



## FEATURES

- Flexible flame-retardant, thin wall, general purpose heat-shrinkable polyolefin tubing has a 2:1 shrink ratio.
- Used for electrical insulation, wire harness bundling, wire jacket marking and color coding, it also splices and makes functional terminations.
- Standard packaging is either 6" lengths in blister boxes, or in economical 25' spools. Available in black.
- Black, white and colored thin wall tubing meet MIL-DTL-23053/5, Class 1.
- Clear meets MIL-DTL-23053/5, Class 2 and is not flame retardant.

## RATINGS

**TEMPERATURE RATING:**
125 °C.
600V Max.

| CAT. NO. |
|---|
| TWHS-046-6 |
| TWHS-046-48 |
| TWHS-063-6 |
| TWHS-063-48 |
| TWHS-063-25B |
| TWHS-093-6 |
| TWHS-093-48 |
| TWHS-093-25B |
| TWHS-125-6 |
| TWHS-125-48 |
| TWHS-125-25B |
| TWHS-187-6 |
| TWHS-187-48 |
| TWHS-187-25B |
| TWHS-187 |
| TWHS-250-6 |
| TWHS-250-48 |
| TWHS-250-25B |
| TWHS-250 |





| EXPANDED I.D. | RECOVERED I.D. | NOMIINAL RECOVERED WALL THICKNESS | LENGTH (IN/FT) | STD. PKG. QTY. |
|---|---|---|---|---|
| 0.046 | 0.230 | 0.016 | 6" | 15 |
| 0.046 | 0.230 | 0.016 | 48" | 1 |
| 0.063 | 0.031 | 0.017 | 6" | 15 |
| 0.063 | 0.031 | 0.017 | 48" | 1 |
| 0.063 | 0.031 | 0.017 | 25' Spool | 1 |
| 0.093 | 0.046 | 0.020 | 6" | 15 |
| 0.093 | 0.046 | 0.020 | 48" | 1 |
| 0.093 | 0.046 | 0.020 | 25' Spool | 1 |
| 0.125 | 0.062 | 0.020 | 6" | 15 |
| 0.125 | 0.062 | 0.020 | 48" | 1 |
| 0.125 | 0.062 | 0.020 | 25' Spool | 1 |
| 0.187 | 0.093 | 0.020 | 6" | 12 |
| 0.187 | 0.093 | 0.020 | 48" | 1 |
| 0.187 | 0.093 | 0.020 | 25' Spool | 1 |
| 0.187 | 0.093 | 0.020 | 1,000' Spool | 1 |
| 0.250 | 0.125 | 0.025 | 6" | 10 |
| 0.250 | 0.125 | 0.025 | 48" | 1 |
| 0.250 | 0.125 | 0.025 | 25' Spool | 1 |
| 0.250 | 0.125 | 0.025 | 500' Spool | 1 |

EASY-SPLICE™

# Thin-Wall Tubing

## TWHS SERIES CONT'D



## FEATURES

- Flexible flame-retardant, thin wall, general purpose heat-shrinkable polyolefin tubing has a 2:1 shrink ratio.
- Used for electrical insulation, wire harness bundling, wire jacket marking and color coding, it also splices and makes functional terminations.
- Standard packaging is either 6" lengths in blister boxes, or in economical 25' spools. Available in black.
- Black, white and thin wall tubing meet MIL-DTL-23053/5, Class 1.
- Clear meets MIL-DTL-23053/5, Class 2 and is not flame retardant.

## RATINGS

**TEMPERATURE RATING:**
125 °C.
600V Max.

| CAT. NO. |
|---|
| TWHS-312-6 |
| TWHS-312-48 |
| TWHS-312 |
| TWHS-375-6 |
| TWHS-375-48 |
| TWHS-375-25B |
| TWHS-375 |
| TWHS-500-6 |
| TWHS-500-48 |
| TWHS-500-25B |
| TWHS-500 |
| TWHS-750-6 |
| TWHS-750-48 |
| TWHS-750-25B |
| TWHS-750-25W |
| TWHS-750 |
| TWHS-1000-6 |
| TWHS-1000-48 |
| TWHS-1000-25B |
| TWHS-1000 |
| TWHS-1500-48 |
| TWHS-1500-25B |
| TWHS-2000-48 |
| TWHS-2000-25B |



| EXPANDED I.D. | RECOVERED I.D. | NOMIINAL RECOVERED WALL THICKNESS | LENGTH (IN/FT) | STD. CTN. QTY. |
|---|---|---|---|---|
| 0.312 | 0.156 | 0.025 | 6" | 10 |
| 0.312 | 0.156 | 0.025 | 48" | 1 |
| 0.312 | 0.156 | 0.025 | 200' Spool | 1 |
| 0.375 | 0.187 | 0.025 | 6" | 9 |
| 0.375 | 0.187 | 0.025 | 48" | 1 |
| 0.375 | 0.187 | 0.025 | 25' Spool | 1 |
| 0.375 | 0.187 | 0.025 | 200' Spool | 1 |
| 0.500 | 0.250 | 0.025 | 6" | 8 |
| 0.500 | 0.250 | 0.025 | 48" | 1 |
| 0.500 | 0.250 | 0.025 | 25' Spool | 1 |
| 0.500 | 0.250 | 0.025 | 200' Spool | 1 |
| 0.750 | 0.375 | 0.030 | 6' | 6 |
| 0.750 | 0.375 | 0.030 | 48' | 1 |
| 0.750 | 0.375 | 0.030 | 25' Spool | 1 |
| 0.750 | 0.375 | 0.030 | 25' Spool | 1 |
| 0.750 | 0.375 | 0.030 | 100' Spool | 1 |
| 1.000 | 0.500 | 0.035 | 6" | 4 |
| 1.000 | 0.500 | 0.035 | 48" | 1 |
| 1.000 | 0.500 | 0.035 | 25' Spool | 1 |
| 1.000 | 0.500 | 0.035 | 100' Spool | 1 |
| 1.500 | 0.750 | 0.040 | 48" | 1 |
| 1.500 | 0.750 | 0.040 | 25' Spool | 1 |
| 2.000 | 1.000 | 0.045 | 48" | 1 |
| 2.000 | 1.000 | 0.045 | 25' Spool | 1 |





# GROUNDING

GROUND CLAMPS

# Heavy Duty Direct Burial with Lay-in Lugs

GLC SERIES



## HEAVY DUTY DIRECT BURIAL W/LAY-IN

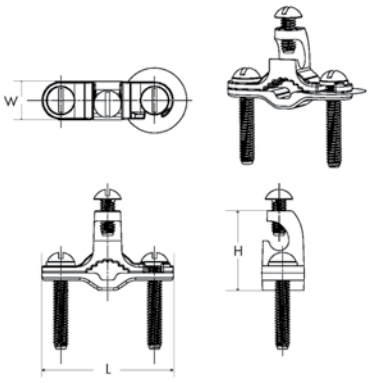
- The ultimate ground clamp for large ground wires.
- This incredible ground clamp can handle just about any size ground wire and just about any application.
- Lay-in feature provides for the ultimate in flexibility.
- Convenient and pre-assembled screws are 304 stainless steel.
- Available with silicon bronze screws by adding suffix -SB.

**APPLICATION:**

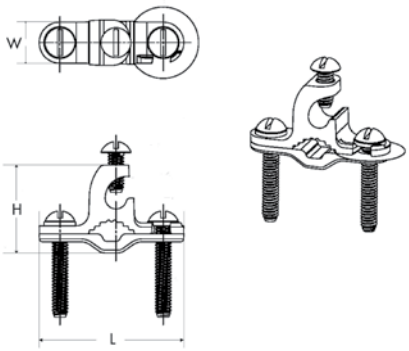
- UL Listed for direct burial in earth and concrete, it can be used with rebar, copper water pipe, copper tubing and ground rods up to 1 inch in diameter.
- cULus Listed 467 Grounding and Bonding.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | **6** |
|  |  |  |

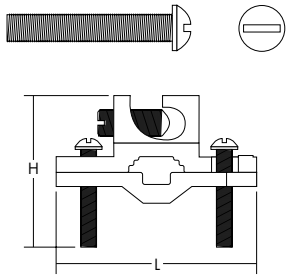
**GLC-12 RDB**




**GLC-12 DB**




**GLC-140 DB**




All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | REBAR SIZE | GROUND ROD SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **GLC-140DB** | 1 | 1/2-1 | 8 STR-4/0 STR | 3/8-1 | 1/2-1 | 2.551 | 0.784 | 2.132 | 10 |
| **GLC-12 DB** | 2 | 1/2-1 | #10-2 STR | 3/8-1 | 1/2-1 | 2.281 | 0.714 | 1.382 | 25 |
| **GLC-12 RDB** | 3 | 1/2-1 | #10-2 STR | 3/8-1 | 1/2-1 | 2.283 | 0.670 | 1.385 | 25 |
| **GLC-12 HDB** | 4 | 1/2-1 | #10-2 STR | 3/8-1 | 1/2-1 | 2.362 | 0.708 | 1.200 | 25 |
| **GLC-240DB** | 5 | 1 1/4-2 | #8-4/0 STR | - | - | 3.319 | 0.693 | 3.190 | 6 |
| **GLC-440DB** | 6 | 2 1/2-4 | #8-4/0 STR | - | - | 5.688 | 0.823 | 3.743 | 3 |

GROUND CLAMPS

# Copper & Tin Plated Copper Lay-in Lugs

GLC, GLA SERIES



## FEATURES

- Lay-in lugs are used for grounding or in continuous loop bonding and are available in several variations, depending on the application.

**GLC-4**

- Copper body with a steel screw and is used for general grounding applications with copper wire.

**GLC-4 DB/GLC-4 DBP**

- Copper bodies with stainless steel screws, are UL Listed for direct burial in earth or concrete with copper wire.
- cULus Listed 467 Grounding and Bonding.

**DUAL RATED LAY-IN LUGS**

- Lay-in connectors offer the ultimate in flexibility.
- Excellent for grounding and continuous loop applications.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.




## RATINGS

c UL us LISTED GROUNDING BONDING

UL467 Listed.

**TEMPERATURE RATING:**
*Dual Rated Lay-In: 90 °C.

**VOLTAGE:**
600V (2000V max. per UL486B).

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | MATERIAL | WIRE RANGE | USE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **GLC-4** | 1 | Copper with steel screws | 4 -14 AWG | General use for CU wire only | 1.312 | 0.396 | 0.908 | 100 |
| **GLC-4 DB** | 1 | Copper with stainless steel screws | 4 -14 AWG | Direct burial for CU wire only | 1.312 | 0.396 | 0.908 | 100 |
| **GLC-4 DBP** | 2 | Tin-plated copper with stainless steel screws | 4 -14 AWG | Direct burial for CU wire only | 1.312 | 0.396 | 0.908 | 100 |
| **GLA-4*** | 3 | Tin-plated aluminum with stainless steel screws | 4-14 AWG | Direct burial for CU wire only | 1.070 | 0.380 | 0.750 | 100 |
| **GLA-0*** | 3 | Tin-plated aluminum with steel screws | 1/0-8 AWG | General use for AL/CU wire | 1.500 | 0.600 | 1.100 | 40 |
| **GLA-000*** | 3 | Tin-plated aluminum with steel screws | 3/0-6 AWG | General use for AL/CU wire | 2.000 | 0.800 | 1.500 | 20 |
| **GLA-250*** | 4 | Tin-plated aluminum with steel screws | 250 MCM-6 AWG | General use for AL/CU wire | 2.200 | 0.800 | 1.700 | 20 |

GROUND CLAMPS

# Heavy Duty Direct Burial Ground Clamps, Direct Burial for Rebar

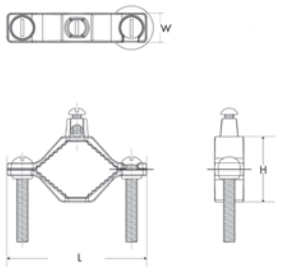
G-S-DB, G-S-BS SERIES



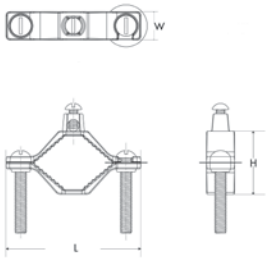
## HEAVY DUTY DIRECT BURIAL

- UL Listed for direct burial in earth or concrete.
- Screws are 304 stainless steel.
- cULus Listed 467 Grounding and Bonding.

**G-1-S DB**




**G-2-SDB**




All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE BOLT SIZE | GROUND CLAMP BOLT SIZE | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-1-S DB*** | 1/2-1 | 1/4"-20 x 1/2" | 1/4"-20 x 1.50" | 10 SOL – 2 STR | 2.280 | 0.650 | 1.400 | 20 |
| **G-2-SDB*** | 1 1/4-2 | 1/4"-20 x 1/2" | 5/16"-18 x 2" | 10 SOL – 2 STR | 3.600 | 0.750 | 1.690 | 10 |

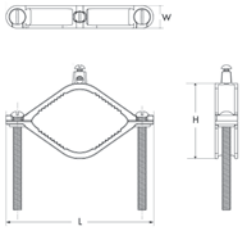
*Available with silicon bronze screws by adding suffix of -SB.

## DIRECT BURIAL FOR REBAR

- Used to connect bare copper wire to copper water pipe, ground rods and rebar for bonding.
- Assembled with copper alloy screws and UL Listed for direct burial in earth and concrete.
- Can accommodate ground wires up to 2 AWG.
- cULus Listed 467 Grounding and Bonding.



**G-4-S BS**




All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | REBAR SIZE | GROUND WIRE RANGE | GROUND WIRE BOLT SIZE | GROUND CLAMP BOLT SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **G-4-S BS** | 2 1/2-4 | 3/8 - 1 | 10 SOL-2 STR | 1/4-20 x 1/2" | 3/8-16 x 4" | 6.350 | 0.970 | 3.750 | 6 |

GROUND CLAMPS

# Heavy Duty Direct Burial & with Adapters

G & G-DB SERIES





## EXTRA HEAVY DUTY DIRECT BURIAL

- This incredible ground clamp can handle just about any size ground wire and just about any application.
- UL Listed for direct burial in earth and concrete, be used with rebar, copper water pipe, copper tubing and ground rods up to 1 inch in diameter.
- Assembled with tough 304 stainless steel screws.
- Will accommodate ground wires from 8 AWG to 4/0 AWG.
- cULus Listed 467 Grounding and Bonding.

All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | REBAR SIZE | GROUND ROD SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-140DB** | 1 | 8 STR-4/0 STR | 3/8-1 | 1/2-1 | 2.362 | 0.669 | 1.761 | 10 |

*Available with silicon bronze screws by adding suffix of -SB.

## DIRECT BURIAL WITH WIRE ADAPTERS

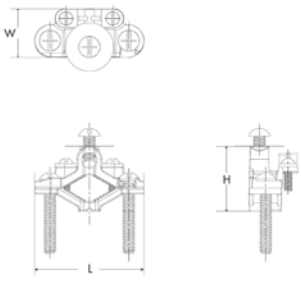


- For connecting wire to copper water pipe for grounding.
- Special pressure bar grips cable armor to lessen chances of grounding conductor being pulled out.
- Assembled with silicon bronze screws.
- UL Listed 467 Grounding and Bonding.

**APPLICATION:**

- UL Listed for direct burial in earth or concrete.

**G-20 DB**




All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | GROUND WIRE BOLT SIZE | GROUND CLAMP BOLT SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-20 DB** | 1/2 - 1 | 4,6,8 STR | 1/4 - 20 x 1/2 | 1/4 - 20 x 1 1/2 | 2.250 | 1.000 | 1.350 | 20 |

GROUND CLAMPS

# Heavy Duty Direct Burial/ with Adapters & Rebar Ground Clamps

G-S DBR, G-BS, J-SB & RC SERIES



## HEAVY DUTY BRONZE GROUND CLAMP

- Bronze ground clamp for bonding bare copper wire to copper water pipe.
- Assembled with tough 304 stainless steel screws.
- Available with silicon bronze screws by adding suffix -SB.
- cULus Listed 467 Grounding and Bonding.

All dimensional data is listed in inches.

| CAT. NO. | GROUND WIRE RANGE | PIPE SIZE (IPS) | REBAR SIZE | GROUND ROD SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-1-S DBR** | 10 SOL - 2 STR | 1/2-1 | 3/8 - 1 | 3/8-1 | 2.280 | 0.650 | 1.400 | 20 |

## HD GROUND CLAMP WITH ADAPTER AND BRASS SCREWS



- Bronze clamps for copper water pipes with bronze adapters.
- Assembled with brass screws.

All dimensional data is listed in inches.

| CAT. NO. | GROUND WIRE RANGE | PIPE SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **G-3 BS** | 8-4/0 STR | 1/2-1 | 2.320 | 0.748 | 1.437 | 20 |

## REBAR GROUND CLAMPS

**Features**
- Lay-in style clamp allows for continuous loop wiring.
- Cast silicon bronze connector & Stainless steel hardware.

**Application**
- For use with copper wire only.
- Harsh direct bury environments & Pool and Spa.
- Any commercial, industrial, maintenance application where ground wire needs to be connected to rebar.

**Ratings**
- cULus Listed UL467 Grounding & Bonding Equipment & Direct Bury.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

*UL Listed for #4 STR - #2 STR.

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | GROUND WIRE RANGE | REBAR SIZE (IN) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **RC38** | 1 | 8-6 SOL | 0.375 | 1.14 | 0.74 | 0.75 | 25 |
| **RC50** | 2 | 8 SOL - 4 STR | 0.500 | 1.35 | 0.83 | 0.91 | 25 |
| **RC58*** | 3 | 6 SOL - 2/0 STR | 0.625 | 1.62 | 0.80 | 1.06 | 25 |

GROUND CLAMPS

# Bronze Ground Clamps & Heavy Duty Water Pipe Clamps

G-S & G SERIES

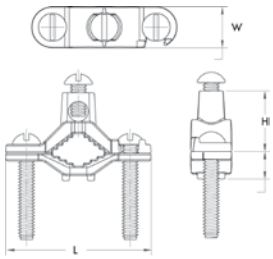




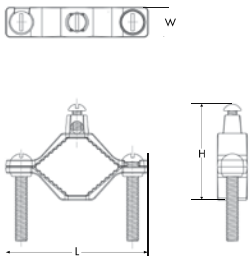
## BRONZE GROUND CLAMPS

- Bronze ground clamp for bonding bare copper wire to water pipe or for use as a water meter shunt.
- Zinc plated steel screws.

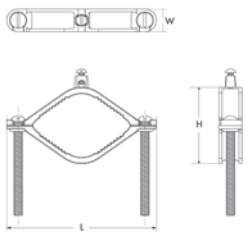
**G-1-S**



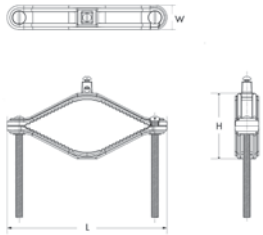

**G-2-S**




**G-4-S**




**G-6-S**




All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **G-1-S*** | 1/2-1 | 10 SOL– 2 STR | 2.280 | 0.650 | 1.400 | 20 |
| **G-2-S*** | 1 1/4-2 | 10 SOL– 2 STR | 3.600 | 0.750 | 1.690 | 10 |
| **G-4-S** | 2 1/2-4 | 10 SOL– 2 STR | 6.350 | 0.970 | 3.750 | 6 |
| **G-6-S** | 4 1/2-6 | 10 SOL– 2 STR | 8.300 | 1.250 | 4.000 | 3 |

*Also cULus listed.

## HEAVY DUTY WATER PIPE CLAMPS

- Bronze water pipe clamps with serrated head.
- Cast bronze body with plated steel screws.
- Designed for use alone or with heavy duty bronze adapters.



All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **G-1** | 1/2-1 | 10 SOL-2 STR | 2.200 | 0.748 | 1.437 | 25 |
| **G-2** | 1 1/4-2 | 10 SOL-2 STR | 3.500 | 0.847 | 2.180 | 15 |
| **G-12** | 2 1/2-4 | 10 SOL-2 STR | 6.250 | 0.943 | 3.674 | 6 |
| **G-13** | 4 1/2-6 | 10 SOL-2 STR | 7.916 | 0.933 | 4.165 | 4 |

# Aluminum & Bronze Ground Clamps

GCA & G SERIES



## ALUMINUM GROUND CLAMPS

- Dual-rated ground clamp that grounds aluminum or copper to water pipe, galvanized pipe or steel conduit.
- Constructed from high-strength, extruded aluminum alloy and are plated to provide low-contact resistance.
- cULus Listed 467 Grounding and Bonding.
- Zinc plated steel screws.

All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **GCA-1** | 1/2-1 | 1/0-14 AWG | 2.260 | 0.685 | 1.670 | 25 |
| **GCA-2** | 1 1/4-2 | 250 MCM-6 AWG | 3.760 | 0.828 | 2.930 | 10 |
| **GCA-4** | 2 1/2-4 | 250 MCM-6 AWG | 6.125 | 0.996 | 4.630 | 3 |

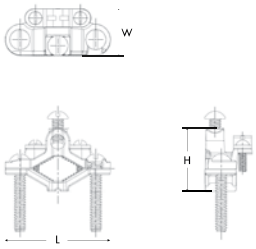


## BRONZE GROUND CLAMP WITH WIRE ADAPTERS

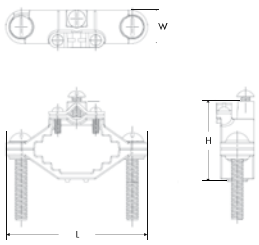
LISTED

- For connecting unarmored wire to water pipe for grounding.
- Special pressure bar grips cable to lessen chances of grounding conductor being pulled out.
- Assembled with zinc-plated steel screws.

**G-20**




**G-66**



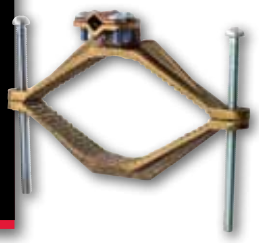

All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE BOLT SIZE | GROUND CLAMP BOLT SIZE | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **G-20** | 1/2-1 | 1/4 - 20 x 1/2 | 1/4 - 20 x 1 1/2 | 4,6,8 STR | 2.250 | 1.000 | 1.350 | 20 |
| **G-66** | 1 1/4-2 | 1/4 - 20 x 1/2 | 5/16 -18 x 2 | 4,6,8 STR | 3.580 | 0.850 | 2.040 | 10 |

GROUND CLAMPS

# Heavy Duty & with 360° Adapters for Rigid Conduit

G SERIES





## HEAVY DUTY BRONZE

UL LISTED

- Heavy duty bronze adapters have serrations that match the serrations on the ground clamp, assuring positive lock.
- All adapters fit all clamps for the ultimate flexibility.
- Assembled with zinc plated steel hardware.
- Used to connect grounding conductor to rigid conduit on water pipe.
- UL Listed 467 Grounding and Bonding.

All dimensional data is listed in inches.

| CAT. NO. | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **G-3** | 1/2-1 | 8-4/0 STR | 2.320 | 0.748 | 1.437 | 20 |
| **G-4** | 1 1/4-2 | 8-4/0 STR | 3.528 | 0.850 | 2.706 | 10 |
| **G-15** | 2 1/2-4 | 8-4/0 STR | 6.125 | 0.964 | 3.962 | 6 |
| **G-16** | 4 1/2-6 | 8-4/0 STR | 7.916 | 0.933 | 4.565 | 3 |

## FOR RIGID CONDUIT

c UL us SA



- Used to connect grounding conductor to rigid conduit on water pipe.

All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **G-5** | 1/2 | 1/2 - 1 | 10 SOL – 2/0 STR | 2.200 | 0.748 | 2.437 | 15 |
| **G-6** | 1/2 | 1 1/4 - 2 | 10 SOL – 2/0 STR | 3.667 | 0.791 | 3.195 | 10 |
| **G-18** | 1/2 | 2 1/2 - 4 | 10 SOL – 2/0 STR | 6.125 | 0.961 | 4.812 | 6 |
| **G-19** | 1/2 | 4 1/2 - 6 | 10 SOL – 2/0 STR | 8.125 | 1.263 | 4.740 | 3 |
| **G-7** | 3/4 | 1/2 - 1 | 10 SOL – 3/0 STR | 2.200 | 0.748 | 1.437 | 15 |
| **G-8** | 3/4 | 1 1/4 - 2 | 10 SOL – 3/0 STR | 3.616 | 0.791 | 3.298 | 8 |
| **G-21** | 3/4 | 2 1/2 - 4 | 10 SOL – 3/0 STR | 6.125 | 0.961 | 4.943 | 6 |
| **G-22** | 3/4 | 4 1/2 - 6 | 10 SOL – 3/0 STR | 8.227 | 1.244 | 5.050 | 3 |
| **G-9** | 1 | 1/2 - 1 | 10 SOL – 3/0 STR | 2.315 | 0.747 | 3.159 | 12 |
| **G-10** | 1 | 1 1/4 - 2 | 10 SOL – 3/0 STR | 3.616 | 0.816 | 3.561 | 8 |
| **G-24** | 1 | 2 1/2 - 4 | 10 SOL – 3/0 STR | 6.125 | 0.940 | 5.191 | 6 |
| **G-25** | 1 | 4 1/2 - 6 | 10 SOL – 3/0 STR | 8.225 | 1.260 | 5.245 | 3 |

GROUND CLAMPS

# Heavy Duty with 360° Adapters for Rigid Conduit

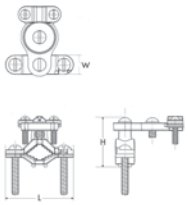
EG SERIES



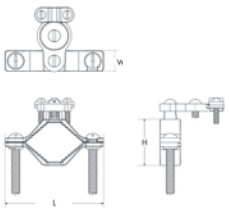
## WITH 360° ADAPTERS FOR RIGID CONDUIT

- Bronze water pipe clamps with bronze adapters.
- Excellent quality yet economical.
- All adapters are interchangeable.
- Assembled with zinc-plated steel screws.
- Hub swings 360° for easy alignment.
- Used to connect rigid conduct and ground conductor to water pipe.
- UL Listed 467 Grounding and Bonding.

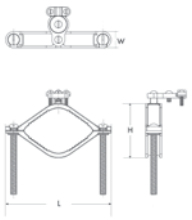
**EG-3**



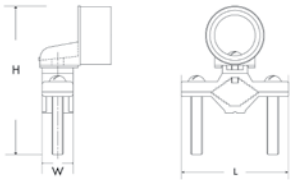
**EG-4**



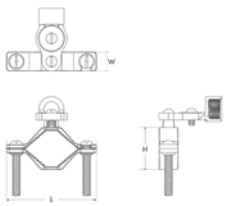
**EG-15**



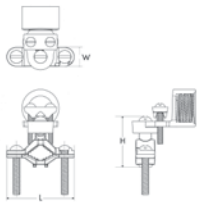
**EG-5**



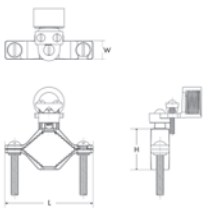
**EG-6**



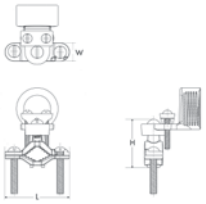
**EG-7**



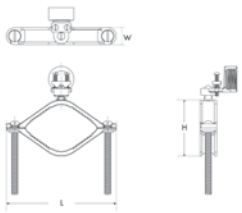
**EG-8**



**EG-9**



**EG-24**



All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | PIPE SIZE (IPS) | GROUND WIRE RANGE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **EG-3** | 1/2 | 1/2 - 1 | 10 SOL – 2/0 STR | 2.200 | 0.585 | 2.300 | 20 |
| **EG-4** | 1/2 | 1 1/4 - 2 | 10 SOL – 2/0 STR | 3.588 | 0.737 | 3.117 | 10 |
| **EG-15** | 1/2 | 2 1/2 - 4 | 10 SOL – 2/0 STR | 6.125 | 0.972 | 4.834 | 6 |
| **EG-5** | 1/2 | 1/2 - 1 | 10 SOL – 2/0 STR | 2.208 | 0.597 | 2.210 | 15 |
| **EG-6** | 1/2 | 1 1/4 - 2 | 10 SOL – 2/0 STR | 3.631 | 0.725 | 2.696 | 10 |
| **EG-7** | 3/4 | 1/2 - 1 | 10 SOL – 2/0 STR | 2.298 | 0.663 | 2.470 | 15 |
| **EG-8** | 3/4 | 1 1/4 - 2 | 10 SOL – 2/0 STR | 3.576 | 0.789 | 3.841 | 8 |
| **EG-9** | 1 | 1/2 - 1 | 10 SOL – 3/0 STR | 2.280 | 0.650 | 1.900 | 12 |
| **EG-10** | 1 | 1 1/4 - 2 | 10 SOL – 3/0 STR | 3.587 | 0.792 | 4.029 | 8 |
| **EG-24** | 1 | 2 1/2 - 4 | 10 SOL – 3/0 STR | 6.125 | 0.962 | 5.158 | 6 |

GROUND CLAMPS

# Rigid Conduit w/Flexible Wire Strap

G SERIES

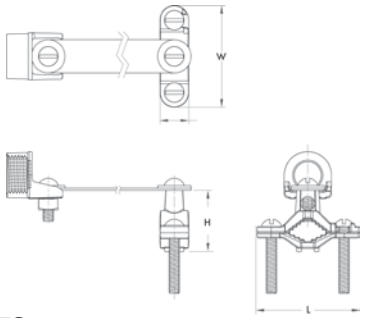




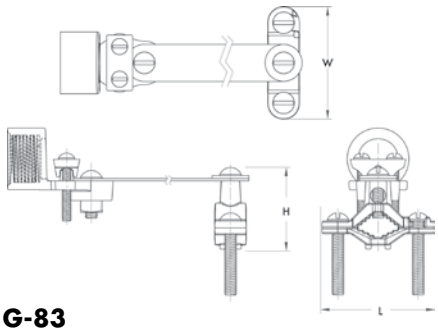
## FEATURES

- For connecting the grounding conductor in rigid conduit to water pipe.
- Copper strap allows flexibility during grounding and helps protect the conduit system from the results of vibrations in the water system.
- Assembled with zinc-plated steel screws.

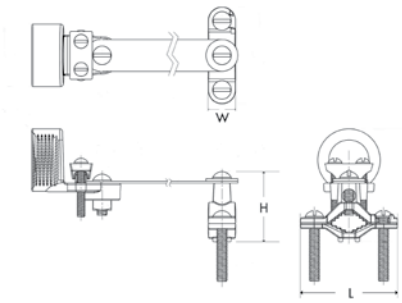
**G-90**




**G-79**




**G-83**




## RATINGS

c UL us SA

UL Listed 467 Grounding & Bonding.

All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | PIPE SIZE (IPS) | GROUND WIRE RANGE | STD. CTN. QTY. |
|---|---|---|---|---|
| **G-90** | 1/2 | 1/2 - 1 | 10 SOL – 2/0 STR | 15 |
| **G-79** | 3/4 | 1/2 - 1 | 10 SOL – 2/0 STR | 12 |
| **G-83** | 1 | 1/2 - 1 | 10 SOL – 3/0 STR | 12 |

GROUND CLAMPS

# Economy and 360° Swing Type Hubs

GH, GHM SERIES



## ECONOMY 360° HUB FOR GROUND CLAMPS

- Threaded hub cast of high-strength, highly conductive bronze.
- Used with ground clamp to ground conductor to water pipe.

All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | GROUND WIRE RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **GH-50** | 1/2 | 10 SOL – 4 STR | 50 |
| **GH-75** | 3/4 | 10 SOL – 2/0 STR | 25 |
| **GH-100** | 1 | 10 SOL – 3/0 STR | 15 |

## 360° SWING TYPE



- Threaded hub cast of high-strength, highly conductive bronze.
- Used with ground cLamp with serrated hub to ground conductor to water pipe.
- Allows entry from any direction.
- Zinc plated steel screws.

All dimensional data is listed in inches.

| CAT. NO. | CONDUIT HUB SIZE | GROUND WIRE RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **GHM-50** | 1/2 | 10 SOL – 2/0 STR | 50 |
| **GHM-75** | 3/4 | 10 SOL – 2/0 STR | 75 |
| **GHM-100** | 1 | 10 SOL – 3/0 STR | 15 |

GROUND CLAMPS

# Zinc Die Cast and Standard Duty Silicon Bronze Ground Clamp

GZ, GRC SERIES

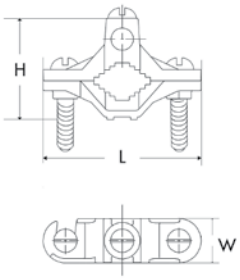




## ZINC DIE-CAST GROUND CLAMPS

- Die cast from high-strength zinc alloy.
- Used to connect bare copper wire for grounding.
- Zinc plated steel screws.
- GZB-1 is brass plated.

**GZ-1**




All dimensional data is listed in inches.

| CAT. NO. | CONDUIT SIZE | GROUND WIRE RANGE | STD. CTN. QTY. |
|---|---|---|---|
| **GZ-1** | 1/2 - 1 | 2 - 10 | 20 |
| **GZB-1*** | 1/2 - 1 | 2 - 10 | 20 |

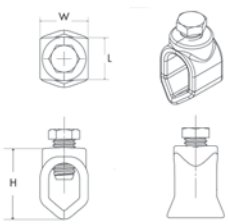
*Not UL Listed.

## STANDARD DUTY SILICON BRONZE

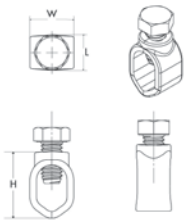
- Ground rod clamps are made from silicon bronze with 304 stainless steel screws for maximum strenght.
- All standard duty and heavy duty ground clamps are UL Listed for direct burial in earth or concrete.
- cULus Listed 467 Grounding and Bonding.



**GRC-38**




**GRC-50**




**GRC-58**




**GRC-34**




All dimensional data is listed in inches.

| CAT. NO. | GROUND ROD SIZE | REBAR SIZE | GROUND WIRE MAXIMUM | STD. CTN. QTY. |
|---|---|---|---|---|
| **GRC 38*(**)** | 3/8 | - | 10 SOL – 4 STR | 50 |
| **GRC 50**** | 1/2 | 3/8 | 10 SOL – 2 STR | 25 |
| **GRC 58**** | 5/8 | 1/2 | 10 SOL – 2 STR | 25 |
| **GRC 34**** | 3/4 | 5/8 | 10 SOL – 1 STR | 20 |

*Not UL Listed/ **Available with silicon bronze screws by adding suffix of -SB.

GROUND CLAMPS

# Heavy Duty Silicon Bronze & Range Taking Rod Clamp

GRC SERIES



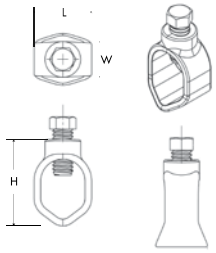
## HEAVY DUTY SILICON BRONZE

- Ground rod clamps are made from silicon bronze for maximum strength.
- A silicon bronze screw furnishes maximum clamping force.
- All standard duty and heavy duty ground clamps are UL Listed for direct burial in earth or concrete.

**GRC-58H**




**GRC-34H**




All dimensional data is listed in inches.

| CAT. NO. | GROUND ROD SIZE | GROUND WIRE MAXIMUM | STD. CTN. QTY. |
|---|---|---|---|
| **GRC-50H*** | 1/2 | 10 SOL – 2 STR | 25 |
| **GRC-58H*** | 5/8 | 10 SOL – 1/0 STR | 20 |
| **GRC-34H*** | 3/4 | 8 SOL – 1/0 STR | 20 |
| **GRC-100H*** | 1 | 8 SOL – 4/0 STR | 10 |

*Available with silicon bronze screws by adding suffix -SB.

## RANGE TAKING ROD CLAMP



- This heavy duty ground rod clamp replaces all existing ground rod clamps, eliminating the need to stock several different sizes and types.
- UL listed for direct burial in earth and concrete, heavy duty construction enables it to handle large ground wires up to 1/0 AWG – much larger than a standard ground rod clamp.
- Suitable for 3/8", 1/2", 5/8", 3/4" ground rods.

All dimensional data is listed in inches.

| CAT. NO. | GROUND WIRE RANGE | GROUND ROD SIZE | REBAR SIZE | SCREW MATERIAL | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **GRC-3834*** | 10 SOL – 1/0 STR | 3/8, 1/2, 5/8, 3/4 | 3/8, 1/2, 5/8 | silicon bronze | 25 |

*Available with silicon bronze screws by adding suffix -SB.

GROUNDING CONNECTORS

# Intersystem Bonding Connectors

GBIAL, GBIBZ SERIES





## FEATURES

- Convenient lay-in feature for main grounding conductor, accommodates #2 to #6 AWG.
- Lay-In feature eliminates the need to cut or splice to main electrode.
- Lay-In feature eliminates disassembling ground to rod connection.
- UL Listed 467 Grounding.
- Optional UV Resistant paintable cover for more desirable appearance.
- For indoor and outdoor use.
- Compact size measures 1.4"H x 1.19"W x 3.93"L.

**GBIAL:**

- Supplied with stainless steel screws to prevent corrosion.
- Dual rated for copper or aluminum conductor.

**GBIBZ**

- Assembled with Zinc plated steel screws. Rated for copper conductor only.

## APPLICATIONS

- Connector for intersystem bonding of power and communication (phone, cable, and satellite) grounding systems.
- Meets or exceeds requirements set forth in NEC2008 250.94 Bonding of other systems facilitates a fast and simple connection to ground conductor below the meter.

| 1 | 2 |
|---|---|
|  |  |
| GBIAL | GBIBZ |

c UL us

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | MATERIAL | DESCRIPTION | WIRE RANGE | NO. OF CIRCUITS | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **GBIAL 126-4414-WC** | 1 | Aluminum | With cover | (1) 2-6, (4) 4-14 | 4 | 1 |
| **GBIAL 126-4414** | 1 | Aluminum | Cover not included | (1) 2-6, (4) 4-14 | 4 | 1 |
| **GBIBZ 126-4414-WC** | 2 | Bronze | With cover | (1) 2-6, (4) 4-14 | 4 | 1 |
| **GBIBZ 126-4414** | 2 | Bronze | Cover not included | (1) 2-6, (4) 4-14 | 4 | 1 |

# Isolated Ground Bars

## GBA, GBC SERIES



## FEATURES

- Made from either high-strength aluminum alloy 6061-T6 or high-conductivity copper as indicated below.
- The base is made from high-strength glass-filled polyester.
- Aluminum connectors are dual-rated for use with aluminum or copper cables.

| 1 | 2 |
|---|---|
|  |  |
| Aluminum and copper | Copper only |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | MATERIAL | WIRE RANGE | NO. OF CIRCUITS | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **GBA2-7** | 1 | Aluminum | AL/CU 2 - 14 | 7 | 2.88 | 2.31 | 1.88 | 3 |
| **GBC2-7** | 2 | Copper | CU 2 - 14 | 7 | 2.88 | 2.31 | 1.75 | 3 |
| **GBA2-10** | 1 | Aluminum | AL/CU 2 - 14 | 10 | 4.07 | 2.31 | 1.88 | 3 |
| **GBC2-10** | 2 | Copper | CU 2 - 14 | 10 | 4.07 | 2.31 | 1.75 | 3 |
| **GBA2-14** | 1 | Aluminum | AL/CU 2- 14 | 14 | 5.56 | 2.31 | 1.88 | 2 |
| **GBC2-14** | 2 | Copper | CU 2 - 14 | 14 | 5.56 | 2.31 | 1.75 | 2 |
| **GBA2-20** | 1 | Aluminum | AL/CU 2- 14 | 20 | 8.04 | 2.31 | 1.88 | 2 |
| **GBC2-20** | 2 | Copper | CU 2 - 14 | 20 | 8.04 | 2.31 | 1.75 | 2 |
| **GBA20-7** | 1 | Aluminum | AL/CU 2/0 - 14 | 7 | 4.61 | 2.31 | 2.13 | 3 |
| **GBA20-10** | 1 | Aluminum | AL/CU 2/0 - 14 | 10 | 6.41 | 2.31 | 2.13 | 3 |
| **GBA20-14** | 1 | Aluminum | CL/CU 2/0 - 14 | 14 | 8.81 | 2.31 | 2.13 | 2 |

GROUNDING CONNECTORS

# Heavy Duty for Parallel, 90° Copper Cable

UC SERIES





## FEATURES

- Made of high-copper-content alloy for grounding to ½" - 1" ground rods and ground pipes from ¼" - 3½" in parallel or 90° position.
- Suitable for direct burial in earth and concrete.
- Nuts and lockwashers are silicon bronze.
- For use with single wire.

## RATINGS

cULus
UL Listed 467 Grounding & Bonding.

All dimensional data is listed in inches.

| CAT. NO. | ROD SIZE | PIPE SIZE | CABLE RANGE | STD. CTN. QTY. |
|---|---|---|---|---|
| **UC-101** | 1/2 | 1/4 | 2/0 - 4 | 12 |
| **UC-102*** | 1/2 | 1/4 | 250-2/0 | 12 |
| **UC-103** | 5/8 - 3/4 | 3/8 | 4 - 8 | 12 |
| **UC-104** | 5/8 - 3/4 | 3/8 | 2/0 - 4 | 12 |
| **UC-105** | 5/8 - 3/4 | 3/8 | 250 - 2/0 | 12 |
| **UC-108** | 7/8 - 1 | 1/2 - 3/4 | 2/0 - 4 | 12 |
| **UC-109** | 7/8 - 1 | 1/2 - 3/4 | 250 - 2/0 | 12 |
| **UC-110*** | 7/8 - 1 | 1/2 - 3/4 | 300-500 | 12 |
| **UC-114** | – | 1 | 2/0 - 4 | 6 |
| **UC-115** | – | 1 | 250 - 2/0 | 12 |
| **UC-120** | – | 1 1/4 | 2/0 - 4 | 12 |
| **UC-121** | – | 1 1/4 | 250 - 2/0 | 12 |
| **UC-126** | – | 1 1/2 | 2/0 - 4 | 12 |
| **UC-127** | – | 1 1/2 | 250 - 2/0 | 12 |
| **UC-132** | – | 2 | 2/0 - 4 | 12 |
| **UC-133** | – | 2 | 250 - 2/0 | 6 |
| **UC-137** | – | 2 1/2 | 2/0 - 4 | 6 |
| **UC-138** | – | 2 1/2 | 250 - 2/0 | 6 |
| **UC-142** | – | 3 | 2/0 - 4 | 6 |
| **UC-143** | – | 3 | 250 - 2/0 | 6 |
| **UC-147** | – | 3 1/2 | 2/0 - 4 | 3 |
| **UC-148*** | – | 3 1/2 | 250 - 2/0 | 3 |

*Not UL Listed

GROUNDING CONNECTORS

# Heavy Duty for Parallel, Two & Three Conductor

UC SERIES



## FEATURES

- Made of high-copper-content alloy for grounding to ½" - 1" ground rods and ground pipes from ¼" - 3½" in parallel or 90° position.
- Suitable for direct burial in earth and concrete.
- Nuts and lockwashers are silicon bronze.
- 200 Series for use with two wires.
- 300 Series for use with three wires.

| 1 | 2 |
|---|---|
|  |  |

## RATINGS

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | PIPE SIZE | CABLE RANGE | STD. CTN. QTY. |
|---|---|---|---|---|
| **UC-214** | 1 | 1 | 2/0 - 4 | 6 |
| **UC-215** | 1 | 1 | 250 - 2/0 | 6 |
| **UC-220** | 1 | 1 1/4 | 2/0 - 4 | 6 |
| **UC-221** | 1 | 1 1/4 | 250 - 2/0 | 6 |
| **UC-226** | 1 | 1 1/2 | 2/0 - 4 | 6 |
| **UC-227** | 1 | 1 1/2 | 250 - 2/0 | 6 |
| **UC-232** | 1 | 2 | 2/0 - 4 | 6 |
| **UC-233** | 1 | 2 | 250 - 2/0 | 3 |
| **UC-237** | 1 | 2 1/2 | 2/0 - 4 | 3 |
| **UC-238** | 1 | 2 1/2 | 250 - 2/0 | 3 |
| **UC-242** | 1 | 3 | 2/0 - 4 | 3 |
| **UC-243** | 1 | 3 | 250 - 2/0 | 3 |
| **UC-315** | 2 | 1 | 250 - 2/0 | 6 |
| **UC-320** | 2 | 1 1/4 | 2/0 - 4 | 6 |
| **UC-326** | 2 | 1 1/2 | 2/0 - 4 | 6 |
| **UC-327** | 2 | 1 1/2 | 250 - 2/0 | 6 |
| **UC-332** | 2 | 2 | 2/0 - 4 | 6 |
| **UC-333** | 2 | 2 | 250 - 2/0 | 3 |
| **UC-338** | 2 | 2 1/2 | 250 - 2/0 | 3 |
| **UC-342** | 2 | 3 | 2/0 - 4 | 3 |
| **UC-343** | 2 | 3 | 250 - 2/0 | 3 |

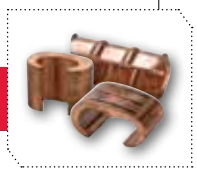
# GROUNDING CONNECTORS
# "C" Taps



## C-TAPS ORDER INFO

**Find them in the Connectors Section**

PAGES 103-104



## CT SERIES



- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.

c UL us SA

## CTH SERIES



- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.

c UL us SA

## CTH SERIES



- Range-taking compression connectors made from high conductivity copper alloy.
- Ideal for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors.
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation. Installation time is reduced because of its "C" shape.

c UL us SA

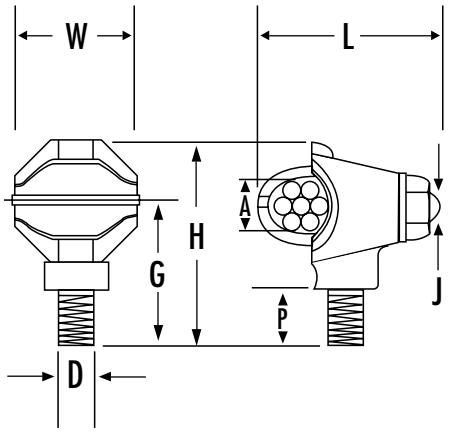
# Transformer Ground Clamps

## TGE SERIES



## FEATURES

- Cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts.
- Stainless steel nuts and lockwashers are standard on all clamps.
- The TGE may be tightened by using a wrench on the body.




All dimensional data is listed in inches.

| CAT. NO. | COPPER CONDUCTOR RANGE (A) | FINISH | WIRE DIA. | STUD SIZE (D) | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| **TGE-1** | 10 SOL - 1 STR | Plain | .102/.332 | 1/2 - 13 | 1.450 | 0.932 | 1.701 | 50 |
| **TGE-2/0** | 8 SOL -2/0 STR | Plain | .128/.419 | 1/2 - 13 | 1.782 | 1.225 | 2.208 | 15 |
| **TGE-250** | 6 SOL - 250MCM | Plain | .162/.575 | 1/2 - 13 | 2.760 | 1.863 | 2.569 | 10 |
| **TGE-1TN** | 10 SOL - 1 STR | Tin Plated | .102/.332 | 1/2 - 13 | 1.450 | 0.932 | 1.701 | 50 |
| **TGE-2/0TN** | 8 SOL -2/0 STR | Tin Plated | .128/.419 | 1/2 - 13 | 1.782 | 1.225 | 2.208 | 15 |
| **TGE-250TN** | 6 SOL - 250MCM | Tin Plated | .162/.575 | 1/2 - 13 | 2.760 | 1.863 | 2.569 | 10 |

GROUNDING CONNECTORS

# Two-Way Baskets

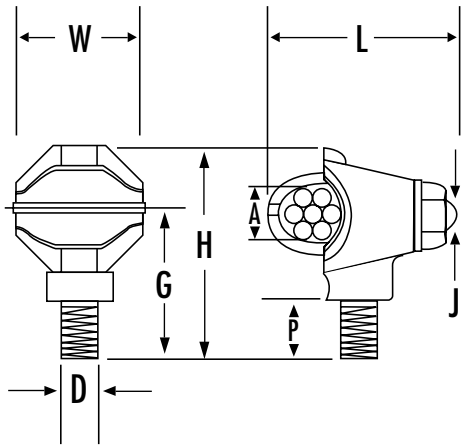
## HTGE SERIES





## FEATURES

- Cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts.
- Stainless steel nuts and lockwashers are standard on all clamps.
- The HTGE provides a hex or square shoulder for wrench tightening.
- The flat surface also acts as a seal to the tank.




All dimensional data is listed in inches.

| CAT. NO. | COPPER CONDUCTOR RANGE (A) | FINISH | WIRE DIA. | STUD SIZE (D) | APPROX DIMENSIONS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | G | | H | | J | L | | P | | W | |
| | | | | | IN | MM | IN | MM | (EYEBOLT) IN | IN | MM | IN | MM | IN | MM |
| **HTGE-1** | 10 SOL - 1 STR | Plain | .102/.332 | 1/2 - 13 | 1 - 3/16 | 30 | 1- 3/4 | 44 | 3/8 -16 | 1- 31/32 | 50 | 7/16 | 11 | 1- 1/8 | 28 |
| **HTGE-2/0** | 8 SOL -2/0 STR | Plain | .128/.419 | 1/2 - 13 | 1 - 5/16 | 33 | 1- 15/16 | 49 | 3/8-16 | 2 | 51 | 7/16 | 11 | 1- 1/4 | 32 |
| **HTGE-250** | 6 SOL - 250MCM | Plain | .162/.575 | 1/2 - 13 | 1 - 3/16 | 30 | 2- 1/8 | 54 | 1/2 -13 | 2- 5/8 | 67 | 15/32 | 12 | 1- 7/8 | 48 |
| **HTGE-2/0TN** | 8 SOL -2/0 STR | Tin Plated | .128/.419 | 1/2 - 13 | 1 - 5/16 | 33 | 1- 15/16 | 49 | 3/8 -16 | 2 | 51 | 7/16 | 11 | 1- 1/4 | 32 |
| **HTGE-250TN** | 6 SOL - 250MCM | Tin Plated | .162/.575 | 1/2 - 13 | 1 - 3/16 | 30 | 2- 1/8 | 54 | 1/2 -13 | 2- 5/8 | 67 | 15/32 | 12 | 1- 7/8 | 48 |

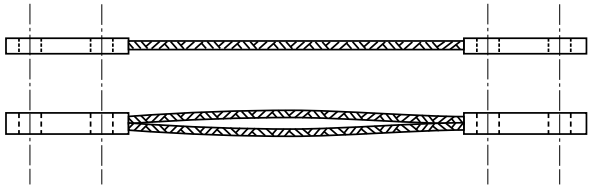
# Flexible Braid Jumper Straps & Ground Strap

FS, SA SERIES



## FLEXIBLE BRAID JUMPER STRAPS

- Recommended for motion due to expansion, contraction, vibration and operational movement of current carrying members.
- Manufactured from flat, extra-flexible tinned braid, they are available in a wide variety of sizes and amperages.
- The ferrules are made from pure electrolytic copper and are tin-plated.
- Standard mounting holes are 9/16" NEMA spaded holes.



All dimensional data is listed in inches.

| CAT NO. | LENGTH | AMPERE RATING INDOORS | AMPERE RATING OUTDOORS | APPROX. CIRCULAR MILS | THICKNESS | WIDTH (2 HOLE PAD ONLY) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **FS1-19-8N** | 12 | 190 | 225 | 77,000 | 1/4 | 11/16 | 1 |
| **FS1-19-8N-18** | 18 | 190 | 225 | 77,000 | 1/4 | 11/16 | 1 |
| **FS1-19-8N-24** | 24 | 190 | 225 | 77,000 | 1/4 | 11/16 | 1 |
| **FS1-33-8N** | 12 | 330 | 400 | 154,500 | 1/4 | 1 1/2 | 1 |
| **FS1-33-8N-18** | 18 | 330 | 400 | 154,500 | 1/4 | 1 1/2 | 1 |
| **FS1-33-8N-24** | 24 | 330 | 400 | 154,000 | 1/4 | 1 1/2 | 1 |
| **FS2-60-8N** | 12 | 600 | 720 | 463,000 | 7/16 | 13/16 | 1 |

## FLEXIBLE GROUND STRAP

- Woven of high conductivity, annealed, tinned copper wire, this braided ground strap provides maximum flexibility and ease of handling when installing ground or shield continuity.
- This braid is used for shield and lead-sheath grounding and is easily soldered to lead, copper and tinned metals.
- It is also used for continuing the fault-carrying capacity of the cable shield as a jumper braid.



| CAT. NO. | WIDTH (IN) | LENGTH (FT) | EQUIVALENT AWG SIZE | STD. CTN. QTY. |
|---|---|---|---|---|
| **SA 382B** | 3/8 | 25 | 9 AWG | 1 |
| **SA 382C** | 3/8 | 100 | 9 AWG | 1 |
| **SA 582B** | 1/2 | 25 | 6 AWG | 1 |
| **SA 582C** | 1/2 | 100 | 6 AWG | 1 |

GROUNDING CONNECTORS

# Grounding Pigtails (for solid & stranded wire) and Grounding Clips

PG, GGC, GSH, GSC SERIES



## FEATURES

### SOLID PIGTAILS WITH SCREWS

- Pigtails are insulated conductors supplied with an attached ground screw on one end and the insulation stripped back one inch on the other end.
- Meets NEC requirements.

### STRANDED WITH RING & SPADE

- Supplied with a spade terminal on one end and a ring terminal with a captive green-dyed screw on the other end.
- 65 strand #12 AWG and 41 strand #14 AWG for maximum flexibility.




## RATINGS

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **PG14C** | 1 | 6.5 Inch 14 AWG Solid With Combo Screw - Green | 50 |
| **PG12C** | 1 | 6.5 Inch 12 AWG Solid With Combo Screw - Green | 50 |
| **PG12C-8** | 1 | 8 Inch 12 AWG Solid Wtih Combo Screw - Green | 50 |
| **PG14SC** | 2 | 8 Inch 14 AWG (41W) Stranded With Combo Slotted Screw | 50 |
| **PG12SC** | 2 | 8 Inch 12 AWG (65W) Stranded With Combo Slotted Screw | 50 |
| **GSH** | 3 | Hex Head Green Grounding Screw | 100 |
| **GSC** | 3 | Combo Slotted Hex Screw | 100 |
| **GGC-1000** | 4 | Green Grounding Clips | 100 |


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22-1
MAX: 1#16 w/1#18
M


130
EASY-TWIST™
ET-CP-11
RE CONNECTORS
(50)
nnectors
r Fils Gris
De Cable
4 AWG
w/1#20
IN: 2#22
300

# EASY-TWIST™

EASY-TWIST™

# Standard Twist-On Wire Connectors

WC SERIES

Example: (100) (10X100) =

100 in standard package,
1000 in standard carton.

## FEATURES

- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Sure-grip ribs improve gripping comfort.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.



## RATINGS

LISTED WIRE CONNECTOR E155027 231168 RoHs

UL 486C Listed Wire Connector.

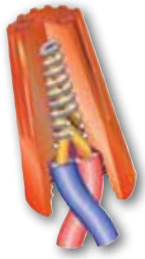
**TEMPERATURE RATING:**
105 °C (221 °F),
150 °C (302 °F) High Temp.

**VOLTAGE:**
1,000V max. in fixtures and signs.

**WIRE TYPE:**
For Copper wire only.

**INSTALLATION:**
Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat.No. with "-B" suffix). Made to fit any pneumatic or electrical tool with a ¼" chuck or drive socket.

Scan **QR code** for mobile access to wire combinations.



| COLOR/ TYPE | WIRE RANGE | MAX VOLTAGE | WIRE RANGE MIN. | WIRE RANGE MAX. |
|---|---|---|---|---|
| Grey | 22-14 AWG | 300V | 2 #22 AWG | 1 #14 w/ 1 #20 AWG |
| Blue | 22-14 AWG | 300V | 2 #22 AWG | 3 #16 AWG |
| Orange | 22-14 AWG | 600V | 1 #18 w/ 1 #20 AWG | 4 #16 w/ 1 #20 AWG |
| Yellow | 22-10 AWG | 600V | 3 #20 AWG | 1 #10 w/ 2 #14 w/ 1 #16 AWG |
| Red | 22-8 AWG | 600V | 3 #18 AWG | 3 #10 AWG |
| High Temp 1 | 22-18 AWG | 300V | 1 #18 Str w/ 1 #22 Str | 2 #18 Str |
| High Temp 3 | 22-14 AWG | 600V | 1 #16 w/1 #22 | 1 #14 w/ 1 #16 w/ 1 #18 |





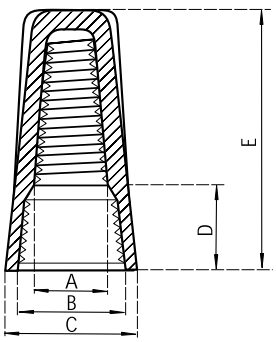
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| CARTON | SMALL JAR | LARGE JAR | BAG | BULK | DRUM |
|---|---|---|---|---|---|
| **WC-G-C** (100) (10x100) | **WC-G-SJ** (300) (50x300) | – | **WC-G-B** (1000) (26x1000) | **WC-G** (25000) | – |
| **WC-B-C** (100) (10x100) | **WC-B-SJ** (300) (50x300) | – | **WC-B-B** (1000) (18x1000) | **WC-B** (10000) | – |
| **WC-O-C** (100) (10x100) | **WC-O-CJ** (100) (50x100) | **WC-O-J** (700) (12x700) **WC-O-SJ** (300) (12x300) | **WC-O-B** (500) (16x500) | **WC-O** (10000) | **WC-O-D** (50000) |
| **WC-Y-C** (100) (10x100) | **WC-Y-CJ** (100) (50x100) | **WC-Y-J** (500) (12x500) **WC-Y-SJ** (200) (12x200) | **WC-Y-B** (500) (12x500) | **WC-Y** (10000) | **WC-Y-D** (35000) |
| **WC-R-C** (100) (10x100) | **WC-R-SJ** (100) (20x100) | **WC-R-J** (350) (12x350) | **WC-R-B** (500) (8x500) | **WC-R** (5000) | **WC-R-D** (25000) |
| – | – | – | **WC-HB1-B** (1000) (26x1000) | **WC-HB1** (10000) | – |
| – | – | – | **WC-HB3-B** (500) (16x500) | **WC-HB3** (10000) | – |




All Dimenional Data is listed in inches.

| COLOR | MAX. SPRING WIDTH (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/ HEIGHT (E) |
|---|---|---|---|---|---|
| Grey | 0.150 | 0.256 | 0.339 | 0.217 | 0.598 |
| Blue | 0.161 | 0.280 | 0.390 | 0.217 | 0.697 |
| Orange | 0.197 | 0.382 | 0.500 | 0.268 | 0.866 |
| Yellow | 0.236 | 0.433 | 0.551 | 0.268 | 0.969 |
| Red | 0.339 | 0.516 | 0.642 | 0.406 | 1.043 |
| High Temp 1 | 0.150 | 0.256 | 0.339 | 0.228 | 0.598 |
| High Temp 3 | 0.197 | 0.382 | 0.500 | 0.307 | 0.866 |

EASY-TWIST™

# Winged Twist-On Wire Connectors

## WWC SERIES

Example: (100) (10X100) =

100 in standard package,
1000 in standard carton.

## FEATURES

- Deep surface ridges provide better grip.
- Ergonomic, swept-back wing design provides handling comfort and increased torque ability.
- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.

## RATINGS

LISTED WIRE CONNECTOR E155027 · 231168 · RoHs

UL 486C Listed Wire Connector.
WWC-GR is UL 467 Listed Grounding and Bonding.

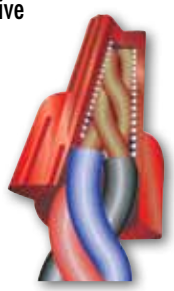
**TEMPERATURE RATING:**
105 °C (221 °F).

**VOLTAGE:**
600V max., 1,000V max. in fixtures and signs.

**WIRE TYPE:**
For Copper wire only.

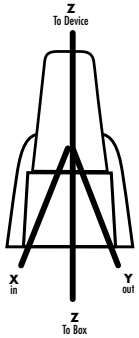
**INSTALLATION:**
Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat.No. with "-B" suffix). Made to fit any pneumatic or electrical tool with a ¼" chuck or drive

Scan **QR code** for mobile access to wire combinations.





| COLOR/ TYPE | WIRE RANGE | MAX VOLTAGE | WIRE RANGE MIN. | WIRE RANGE MAX. |
|---|---|---|---|---|
| Yellow | 18 - 10 AWG | 600V | 2 #18 AWG | 3 #12 AWG |
| Tan | 22-8 AWG | 600V | 3 #22 AWG | 4 #12 AWG |
| Red | 18-8 AWG | 600V | 3 #16 AWG | 5 #12 AWG |
| Grey | 18 - 8 AWG | 600V | 3 #14 w/1 #18 AWG | 3 #10 AWG |
| Blue | 14 - 6 AWG | 600V | 2 #10 w/ 1 #12 AWG | 1 #8 w/ 3 #10 AWG |
| Green GND | 14-10 AWG | 600V | 2 #14 | 5 #12 |
| Yellow N1 | 22 - 10 AWG | 600V | 4 #22 AWG | 3 #12 AWG |
| Red N2 | 22 - 6 AWG | 600V | 3 #20 AWG | 1 #8 w/ 3#12 AWG |




**WINGED GREEN GROUNDING CONNECTOR:**
**X** System grounding wire
**Y** System grounding wire
**Z** "Through" wire between device and box ground
**Note:** If "through" wire is a jumper, be sure wire extends below skirt 6" min.





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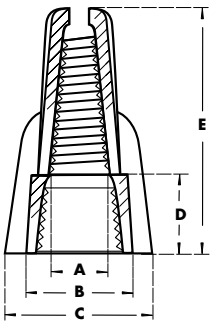







| CARTON | SMALL JAR | LARGE JAR | BAG | BULK | DRUM |
|---|---|---|---|---|---|
| **WWC-Y-C** (100) (10X100) | **WWC-Y-CJ** (100) (50x100) | **WWC-Y-J** (550) (12x550) | **WWC-Y-B** (500) (13x500) | **WWC-Y** (5000) | **WWC-Y-D** (35000) |
| **WWC-T-C** (100) (10x100) | **WWC-T-CJ** (100) (50x100) **WWC-T-SJ** (100) (50x100) | **WWC-T-J** (450) (12x450) | **WWC-T-B** (500) (12x500) | **WWC-T** (5000) | **WWC-T-D** (30000) |
| **WWC-R-C** (100) (10x100) | **WWC-R-SJ** (100) (20x100) | **WWC-R-J** (300) (12x300) | **WWC-R-B** (500) (7x500) | **WWC-R** (5000) | **WWC-R-D** (20000) |
| **WWC-G-C** (50) (10x50) | **WWC-G-SJ** (50) (32x50) | – | **WWC-G-B** (250) (11x250) | **WWC-G** (5000) | **WWC-G-D** (20000) |
| **WWC-B-C** (50) (10x50) | **WWC-B-SJ** (50) (20x50) | **WWC-B-J** (125) (12x125) | **WWC-B-B** (100) (16x100) | **WWC-B** (2500) | **WWC-B-D** (9500) |
| **WWC-GR-C** (100) (10x100) | **WWC-GR-SJ** (100) (20x100) | **WWC-GR-J** (300) (12x350) | **WWC-GR-B** (500) (9x500) | **WWC-GR** (25000) | **WWC-GR-D** (25000) |
| **WWC-N1-C** (100) (10X100) | **WWC-N1-CJ** (100) (50x100) | - | **WWC-N1-B** (500) (13x500) | **WWC-N1** (10000) | - |
| **WWC-N2-C** (100) (10X100) | - | - | **WWC-N2-B** (500) (9x500) | **WWC-N2** (10000) | - |

Shown: WWC-GR




All Dimenional Data is listed in inches.

| COLOR | MAX. SPRING WIDTH (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/ HEIGHT (E) |
|---|---|---|---|---|---|
| Yellow | 0.252 | 0.386 | 0.717 | 0.354 | 1.016 |
| Tan | 0.283 | 0.457 | 0.720 | 0.362 | 1.142 |
| Red | 0.354 | 0.512 | 0.906 | 0.378 | 1.252 |
| Grey | 0.394 | 0.587 | 1.004 | 0.394 | 1.311 |
| Blue | 0.472 | 0.701 | 1.260 | 0.512 | 1.575 |
| Green | 0.327 | 0.476 | 0.795 | 0.370 | 1.134 |
| N-type Yellow | 0.287 | 0.429 | 0.492 | 0.417 | 0.992 |
| N-Type Red | 0.358 | 0.520 | 0.583 | 0.453 | 1.161 |

EASY-TWIST™

# Wire Connector Combination Pails

## WC & WWC SERIES




## FEATURES

- Compact, easy to carry pail, also convenient for use on maintenance cart.
- 4-pack pail includes the most common Easy-Twist™ connectors.



## RATINGS

LISTED WIRE CONNECTOR E155027 231168 RoHs

UL 486C Listed Wire Connector.

**TEMPERATURE RATING:**
105 °C (221 °F).

**VOLTAGE:**
1,000V max. in fixtures and signs.

**WIRE TYPE:**
For copper wire only.

Scan **QR code** for mobile access to wire combinations.

| CAT. NO. |
|---|
| ET-CP-1 |
| ET-CP-2 |
| ET-CP-3 |
| ET-CP-11 |
| ET-CP-12 |
| ET-CP-13 |
| ET-CP-14 |
| ET-CP-15 |





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| PAIL CONTENTS | COLOR | WIRE RANGE | QTY. PER PAIL | STD. CTN. QTY. |
|---|---|---|---|---|
| WWC-T | Tan | 22-8 AWG | 70 | |
| WWC-Y | Yellow | 18-10 AWG | 80 | 12 |
| WWC-R | Red | 18-8 AWG | 45 | |
| WWC-B | Blue | 14-6 AWG | 20 | |
| WC-O | Orange | 22-14 AWG | 100 | |
| WC-Y | Yellow | 22-10 AWG | 75 | 12 |
| WC-R | Red | 22-10 AWG | 50 | |
| WWC-T | Tan | 22-8 AWG | 70 | |
| WC-O | Orange | 22-14 AWG | 100 | |
| WWC-T | Tan | 22-8 AWG | 70 | 12 |
| WWC-Y | Yellow | 18-10 AWG | 80 | |
| WWC-R | Red | 18-8 AWG | 45 | |
| WWC-T | Tan | 22-8 AWG | 40 | |
| WWC-Y | Yellow | 18-10 AWG | 50 | 16 |
| WWC-R | Red | 18-8 AWG | 30 | |
| WWC-B | Blue | 14-6 AWG | 10 | |
| WC-O | Orange | 22-14 AWG | 65 | |
| WC-Y | Yellow | 22-10 AWG | 45 | 16 |
| WC-R | Red | 22-10 AWG | 30 | |
| WWC-T | Tan | 22-8 AWG | 40 | |
| WC-O | Orange | 22-14 AWG | 60 | |
| WWC-T | Tan | 22-8 AWG | 45 | 16 |
| WWC-Y | Yellow | 18-10 AWG | 50 | |
| WWC-R | Red | 18-8 AWG | 30 | |
| WC-O | Orange | 22-14 AWG | 65 | |
| WC-Y | Yellow | 22-10 AWG | 45 | 16 |
| WC-R | Red | 22-10 AWG | 30 | |
| WC-B | Blue | 22-14 AWG | 100 | |
| WC-G | Gray | 22-14 AWG | 120 | |
| WC-B | Blue | 22-14 AWG | 100 | 16 |
| WC-O | Orange | 22-14 AWG | 65 | |
| WC-Y | Yellow | 22-10 AWG | 45 | |

EASY-TWIST™

# Push-In Wire Connectors

## PIWC SERIES



Example: (100) (10X100) =

100 in standard package,
1000 in standard carton.

## FEATURES

- Fast, safe and reliable installation saves time and money.
- No twisting or taping of conductors required.
- Just strip the wire, insert the connector and you are done.
- One wire per opening ensures loose connections are eliminated.
- Made of strong, UL 94V-2 flame retardant polycarbonate.
- Integrated test port enables continuity testing.
- Color coded for easy identification.
- Compact design perfect for tight spaces.
- Copper, tin-plated; stainless steel spring; steel frame, zinc-plated.
- For use with 22-12 AWG solid or stranded wire.

| | COLOR/ TYPE | NO. OF PORTS | WIRE RANGE |
|---|---|---|---|
|  | Yellow | 2 | 22-12 AWG |
|  | Orange | 3 | 22-12 AWG |
|  | Clear | 4 | 22-12 AWG |
|  | Blue | 5 | 22-12 AWG |
|  | Purple | 6 | 22-12 AWG |
|  | Grey | 8 | 22-12 AWG |

## RATINGS

c UL us LISTED WIRE CONNECTOR E155027

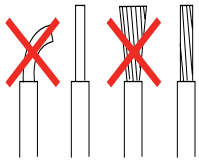
231168

UL 486C Listed Wire Connector.

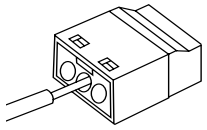
**TEMPERATURE RATING:**
-40 °F to 221 °F (-30 °C to 105 °C).

**VOLTAGE:**
600V max., 1,000V max. in fixtures and signs.

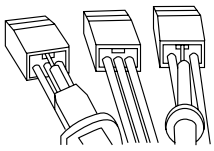
## INSTALLATION



1. Turn off power. Strip wire approximately 0.45 inches (11mm).



2. Push the stripped conductor into the port of connector fully. No twisting or taping.



3. Use a voltage meter to test your connection via the port on connector.

Scan **QR code** for mobile access to wire combinations.



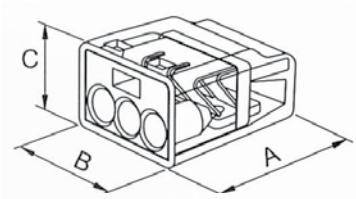


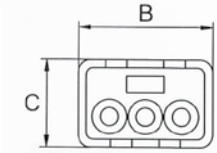
nsi INDUSTRIES

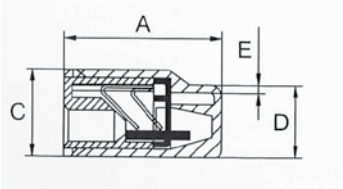





| MAX VOLTAGE | WIRE RANGE MIN. | WIRE RANGE MAX. | CARTON | BAG |
|---|---|---|---|---|
| 600V | 2 #22 AWG | 2 #12 AWG | **PIWC -2-C** (100) (10x100) | **PIWC-2-B** (500) (14x500) |
| 600V | 2 #22 AWG | 3 #12 AWG | **PIWC -3-C** (100) (10x100) | **PIWC-3-B** (500) (11x500) |
| 600V | 2 #22 AWG | 4 #12 AWG | **PIWC -4-C** (75) (10x75) | **PIWC-4-B** (400) (11x400) |
| 600V | 2 #22 AWG | 5 #12 AWG | **PIWC -5-C** (50) (10x50) | **PIWC-5-B** (300) (12x300) |
| 600V | 2 #22 AWG | 6 #12 AWG | **PIWC -6-C** (50) (10x50) | **PIWC-6-B** (250) (12x250) |
| 600V | 2 #22 AWG | 8 #12 AWG | **PIWC -8-C** (40) (10x40) | **PIWC-8-B** (200) (12x200) |




All Dimenional Data is listed in inches.

| COLOR | DEPTH (A) | WIDTH (B) | FRONT HEIGHT (C) | REAR HEIGHT (D) | CASE THICKNESS (E) |
|---|---|---|---|---|---|
| Yellow | 0.748 | 0.463 | 0.411 | 0.343 | 0.035 |
| Orange | 0.748 | 0.626 | 0.411 | 0.343 | 0.035 |
| Clear | 0.748 | 0.789 | 0.411 | 0.343 | 0.035 |
| Blue | 0.748 | 0.953 | 0.411 | 0.343 | 0.035 |
| Purple | 0.748 | 1.116 | 0.411 | 0.343 | 0.035 |
| Black | 0.748 | 1.443 | 0.411 | 0.343 | 0.035 |

EASY-TWIST™

# Crimp Sleeve & Nylon Wire Connectors

## SB, TOP & C-N SERIES

Example: (100) (10X100) =

100 in standard package,
1000 in standard carton.

## FEATURES

- **COPPER CRIMP SLEEVES:** Bullet is designed for easy installation and provide an exceptional connection.
- **CLOSED END CONNECTORS:** Made from nylon 6/6 (Polyimide 66).
- **STEEL CRIMP SLEEVES:** Economical, brass-plated steel provides an excellent low resistance connection.
- UL 94V-2 self extinguishing, closed end style.

**CERAMICS**

- Made of high quality ceramics.
- Have excellent electrical and heat resistant properties.
- Maximum working temperature of 1,000 °F.
- For applications above 200 °F.
- Uses include appliances, high powered lighting fixtures, ceiling fans, heaters, plastic extrusion/injection molding barrels and similar high temperature applications.









| COLOR/ TYPE | WIRE RANGE |
|---|---|
| Copper Crimp Sleeve | 18-10 AWG |
| Copper Crimp Sleeve | 18-8 AWG |
| Steel Crimp Sleeve | 18-10 AWG |
| Steel Crimp Sleeve | 14-8 AWG |
| Ceramic, White | 22-14 AWG |
| Ceramic, White | 22-10 AWG |
| Ceramic, White | 18-8 AWG |
| Nylon, Clear | 22-18 AWG |
| Nylon, Clear | 22-14 AWG |
| Nylon, Clear | 22-10 AWG |
| Nylon, Clear | 16-10 AWG |

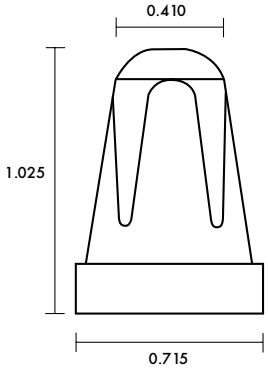
## RATINGS

LISTED WIRE CONNECTOR 231168

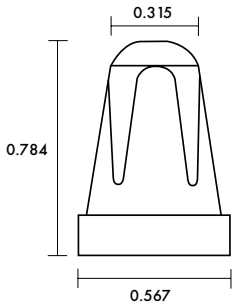
Part # SB is UL Listed
Part # C-N and C-N-B are UL and CSA Listed

**TEMPERATURE RATING:**
C-N Series 105 °C (221 °F)
TOP Series 93.3333 °C (200 °F)

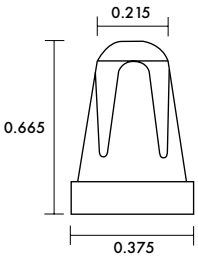
**TOP-L**




**TOP-M**




**TOP-S**



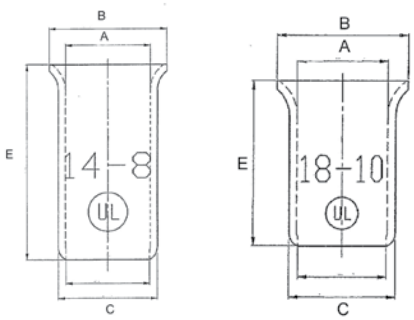

Scan **QR code** for mobile access to wire combinations.







| MAX VOLTAGE | BLISTER PACK | CARTON | BAG |
|---|---|---|---|
| – | **SB1810**<br>(100) (10x100) | – | **SB1810-B**<br>(1000) (10x1000) |
| – | **SB1808**<br>(50) (10x50)) | – | **SB1808-B**<br>(500) (10x500) |
| – | **SB1810S**<br>(100) (10x100) | – | **SB1810S-B**<br>(1000) (10x1000) |
| – | **SB1408S**<br>(50) (10x50) | – | **SB1408S-B**<br>(500) (10x500) |
| – | **TOP-S-D**<br>(15) (15x25) | **TOP-S-CD**<br>(100) (10x100) | – |
| – | **TOP-M-D**<br>(15) (15x25) | **TOP-M-CD**<br>(100) (10x100) | – |
| – | **TOP-L-D**<br>(15) (15x25) | **TOP-L-CD**<br>(100) (10x100) | – |
| 300V | – | **C22-N**<br>(100) (18x100) | **C22-N-B**<br>(1000) (30x1000) |
| 300V | – | **C16-N**<br>(100) (12x100) | **C16-N-B**<br>(1000) (20x1000) |
| 300V | – | **C12-N**<br>(50) (12x50) | **C12-N-B**<br>(1000) (10x1000) |
| 300V | – | **C8-N**<br>(40) (12x40) | **C8-N-B**<br>(500) (12x500) |




All Dimenional Data is listed in inches.

| CAT. NO. | I.D. (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/ HEIGHT (E) |
|---|---|---|---|---|---|
| SB1810 | 0.204 | 0.295 | 0.240 | n/a | 0.374 |
| SB1808 | 0.263 | 0.364 | 0.307 | n/a | 0.610 |
| C22-N | 0.102 | 0.244 | 0.307 | 0.236 | 0.709 |
| C16-N | 0.118 | 0.311 | 0.374 | 0.276 | 0.787 |
| C12-N | 0.173 | 0.413 | 0.492 | 0.378 | 1.004 |
| C8-N* | 0.209 | 0.488 | 0.563 | 0.472 | 1.091 |


0712



# MINITERMS & SWITCHES

# Butt Splices

## B SERIES

## FEATURES

### VINYL:

Stripped wires are inserted from each end and "butt" in the center. A crimp at each end secures the connection.

Electro tin plated copper, vinyl (PVC) 300V, 75 °C.

### UN-INSULATED:

Stripped wires are inserted from each end and "butt" in the center. A crimp at each end secures the connection.

Electro tin plated copper, 600V, 105 °C.

### POLYOLEFIN HS:

Stripped wires are inserted from each end and "butt" in the center. A crimp at each end secures the connection.

Electro tin plated copper, Heat shrink, 600V, 105 °C, Shrink temp 150 °C.

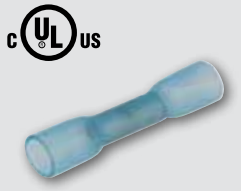
### NYLON:

Stripped wires are inserted from each end and "butt" in the center. A crimp at each end secures the connection.

Electro tin plated copper, Nylon, 600V, 105 °C.









| INSULATION TYPE | WIRE RANGE | CERTIFICATION VARIANCE |
|---|---|---|
| Vinyl | 22-18 | |
| Vinyl | 16-14 | |
| Vinyl | 12-10 | |
| Vinyl | 8 | UL |
| Vinyl | 6 | UL |
| Un-insulated - Bare | 22-18 | |
| Un-insulated - Bare | 16-14 | |
| Un-insulated - Bare | 12-10 | UL |
| Un-insulated - Bare | 8 | |
| Polyolefin HS | 22-18 | |
| Polyolefin HS | 16-14 | |
| Polyolefin HS | 12-10 | |
| Nylon | 22-18 | |
| Nylon | 16-14 | |
| Nylon | 12-10 | |



| | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|
| LENGTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 1.024 | **B22-V-S** | 25 | **B22-V-P** | 70 | **B22-V** | 100 | **B22-V-BULK** | 1000 |
| 1.024 | **B16-V-S** | 20 | **B16-V-P** | 50 | **B16-V** | 100 | **B16-V-BULK** | 1000 |
| 1.024 | **B12-V-S** | 15 | **B12-V-P** | 30 | **B12-V** | 50 | **B12-V-BULK** | 500 |
| 1.398 | – | – | **B8-V-P** | 10 | **B8-V** | 50 | **B8-V-BULK** | 250 |
| 1.855 | – | – | – | – | **B6-V** | 50 | **B6-V-BULK** | 100 |
| | | | | | | | | |
| 0.472 | – | – | – | – | **B22** | 100 | **B22-BULK** | 1000 |
| 0.591 | – | – | – | – | **B16** | 100 | **B16-BULK** | 1000 |
| 0.591 | – | – | – | – | **B12** | 50 | **B12-BULK** | 1000 |
| 0.827 | – | – | – | – | **B8** | 50 | **B8-BULK** | 1000 |
| | | | | | | | | |
| 0.945 | – | – | – | – | **SB22** | 25 | **SB22-BULK** | 500 |
| 1.457 | – | – | – | – | **SB16** | 25 | **SB16-BULK** | 500 |
| 1.614 | – | – | – | – | **SB12** | 50 | **SB12-BULK** | 500 |
| | | | | | | | | |
| 1.024 | – | – | – | – | **B22-N** | 100 | **B22-N-BULK** | 1000 |
| 1.024 | – | – | – | – | **B16-N** | 100 | **B16-N-BULK** | 1000 |
| 1.063 | – | – | – | – | **B12-N** | 50 | **B12-N-BULK** | 500 |

# Spade Terminals: Locking

## S SERIES

## FEATURES

### VINYL:

Tongue snaps around the screw & terminal is locked into place until the mounting screw can be tightened down.

Electro tin plated copper, vinyl (PVC) 300V, 75 °C.



### UN-INSULATED:

Tongue snaps around the screw & terminal is locked into place until the mounting screw can be tightened down.

Electro tin plated copper, 600V, 105 °C.



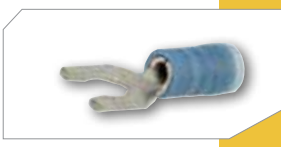
### NYLON:

Tongue snaps around the screw & terminal is locked into place until the mounting screw can be tightened down.

Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.



| INSULATION TYPE | WIRE RANGE | STUD SIZE |
|---|---|---|
| Vinyl | 22-18 | #10 |
| Vinyl | 22-18 | #6 |
| Vinyl | 22-18 | #8 |
| Vinyl | 16-14 | #10 |
| Vinyl | 16-14 | #6 |
| Vinyl | 16-14 | #8 |
| Vinyl | 12-10 | #10 |
| Vinyl | 12-10 | #6 |
| Vinyl | 12-10 | #8 |
| Un-insulated | 22-18 | #10 |
| Un-insulated | 22-18 | #6 |
| Un-insulated | 22-18 | #8 |
| Un-insulated | 16-14 | #10 |
| Un-insulated | 16-14 | #6 |
| Un-insulated | 16-14 | #8 |
| Un-insulated | 12-10 | #10 |
| Un-insulated | 12-10 | #6 |
| Un-insulated | 12-10 | #8 |
| Nylon | 22-18 | #8 |
| Nylon | 16-14 | #10 |
| Nylon | 16-14 | #6 |
| Nylon | 16-14 | #8 |
| Nylon | 12-10 | #10 |
| Nylon | 12-10 | #8 |



| | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|
| LENGTH (IN) | WIDTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.827 | 0.315 | – | – | S22-10V-L | 100 | S22-10V-L-BULK | 1000 |
| 0.827 | 0.228 | – | – | S22-6V-L | 100 | S22-6V-L-BULK | 1000 |
| 0.827 | 0.315 | – | – | S22-8V-L | 100 | S22-8V-L-BULK | 1000 |
| 0.866 | 0.335 | S16-10V-L-P | 85 | S16-10V-L | 100 | S16-10V-L-BULK | 1000 |
| 0.827 | 0.228 | – | – | S16-6V-L | 100 | S16-6V-L-BULK | 1000 |
| 0.827 | 0.283 | S16-8V-L-P | 85 | S16-8V-L | 50 | S16-8V-L-BULK | 1000 |
| 0.992 | 0.374 | – | – | S12-10V-L | 50 | S12-10V-L-BULK | 500 |
| 0.992 | 0.335 | – | – | S12-6V-L | 50 | S12-6V-L-BULK | 500 |
| 0.992 | 0.335 | – | – | S12-8V-L | 50 | S12-8V-L-BULK | 500 |
| 0.694 | 0.340 | – | – | S22-10-L | 100 | S22-10-L-BULK | 1000 |
| 0.585 | 0.260 | – | – | S22-6-L | 100 | S22-6-L-BULK | 1000 |
| 0.646 | 0.261 | – | – | S22-8-L | 100 | S22-8-L-BULK | 1000 |
| 0.694 | 0.340 | – | – | S16-10-L | 100 | S16-10-L-BULK | 1000 |
| 0.585 | 0.260 | – | – | S16-6-L | 100 | S16-6-L-BULK | 1000 |
| 0.646 | 0.320 | – | – | S16-8-L | 100 | S16-8-L-BULK | 1000 |
| 0.773 | 0.340 | – | – | S12-10-L | 50 | S12-10-L-BULK | 1000 |
| 0.664 | 0.260 | – | – | S12-6-L | 50 | S12-6-L-BULK | 1000 |
| 0.646 | 0.261 | – | – | S12-8-L | 50 | S12-8-L-BULK | 1000 |
| 0.866 | 0.315 | – | – | S22-8N-L | 100 | S22-8N-L-BULK | 1000 |
| 0.906 | 0.335 | – | – | S16-10N-L | 100 | S16-10N-L-BULK | 1000 |
| 0.866 | 0.328 | – | – | S16-6N-L | 100 | S16-6N-L-BULK | 1000 |
| 0.866 | 0.283 | – | – | S16-8N-L | 100 | S16-8N-L-BULK | 1000 |
| 1.012 | 0.374 | – | – | S12-10N-L | 50 | S12-10N-L-BULK | 1000 |
| 1.012 | 0.335 | – | – | S12-8N-L | 50 | S12-8N-L-BULK | 1000 |

# Spade Terminals Flange & Block

## S SERIES

## FEATURES

### FLANGE SPADES VINYL:

Turned up edges give this spade more safety and reliability. Flanges give a location and locking action that aid in installation.

Electro tin plated copper, vinyl (PVC) 300V, 75 °C.



### UN-INSULATED:

Electro tin plated copper, 600V, 105 °C.



### NYLON:

Turned up edges give this spade more safety and reliability. Flanges give a location and locking action that aid in installation.

Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.



### BLOCK SPADES VINYL:

Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Electro tin plated copper with brazed seam, Vinyl (PVC), 300V, 75 °C.



### UN-INSULATED:

Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Electro tin plated copper with brazed seam, 600V, 105 °C.



### NYLON:

Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Electro tin plated copper with brazed seam, easy-entry Nylon, 600V, 105 °C.



| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| **FLANGE SPADES** | | | |
| Vinyl | 22-18 | #6 | |
| Vinyl | 22-18 | #8 | |
| Vinyl | 16-14 | #10 | |
| Vinyl | 16-14 | #6 | |
| Vinyl | 16-14 | #8 | |
| Vinyl | 12-10 | #10 | |
| Vinyl | 12-10 | #8 | |
| Un-insulated | 16-14 | #10 | |
| Un-insulated | 16-14 | #6 | |
| Nylon | 22-18 | #6 | |
| Nylon | 16-14 | #10 | |
| Nylon | 16-14 | #6 | |
| Nylon | 16-14 | #8 | |
| Nylon | 12-10 | #10 | |
| **BLOCK SPADES** | | | |
| Vinyl | 22-18 | #10 | |
| Vinyl | 22-18 | #6 | |
| Vinyl | 22-18 | #8 | |
| Vinyl | 16-14 | #10 | |
| Vinyl | 16-14 | #6 | |
| Vinyl | 16-14 | #8 | |
| Un-insulated | 22-18 | #6 | |
| Un-insulated | 22-18 | #8 | |
| Un-insulated | 16-14 | #10 | NON-UL |
| Un-insulated | 16-14 | #6 | NON-UL |
| Un-insulated | 16-14 | #8 | NON-UL |
| Nylon | 22-18 | #10 | |
| Nylon | 22-18 | #6 | |
| Nylon | 16-14 | #10 | NON-UL |
| Nylon | 16-14 | #6 | |
| Nylon | 16-14 | #8 | |



| | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|
| LENGTH (IN) | WIDTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.836 | 0.301 | – | – | S22-6V-F | 100 | S22-6V-F-BULK | 1000 |
| 0.836 | 0.301 | – | – | S22-8V-F | 100 | S22-8V-F-BULK | 1000 |
| 0.850 | 0.301 | – | – | S16-10V-F | 100 | S16-10V-F-BULK | 1000 |
| 0.850 | 0.301 | – | – | S16-6V-F | 100 | S16-6V-F-BULK | 1000 |
| 0.850 | 0.301 | – | – | S16-8V-F | 100 | S16-8V-F-BULK | 1000 |
| 1.075 | 0.320 | – | – | S12-10V-F | 50 | S12-10V-F-BULK | 1000 |
| 1.075 | 0.320 | – | – | S12-8V-F | 50 | S12-8V-F-BULK | 1000 |
| 0.635 | 0.300 | – | – | S16-10-F | 100 | S16-10-F-BULK | 1000 |
| 0.570 | 0.301 | – | – | S16-6-F | 100 | S16-6-F-BULK | 1000 |
| 0.885 | 0.294 | – | – | S22-6N-F | 100 | S22-6N-F-BULK | 1000 |
| 0.910 | 0.293 | – | – | S16-10N-F | 100 | S16-10N-F-BULK | 1000 |
| 0.910 | 0.293 | – | – | S16-6N-F | 100 | S16-6N-F-BULK | 1000 |
| 0.908 | 0.294 | – | – | S16-8N-F | 100 | S16-8N-F-BULK | 1000 |
| 0.770 | 0.385 | – | – | S12-10N-F | 50 | S12-10N-F-BULK | 1000 |
| | | | | | | | |
| 0.831 | 0.297 | – | – | S22-10V-B | 100 | S22-10V-B-BULK | 1000 |
| 0.560 | 0.301 | – | – | S22-6V-B | 100 | S22-6V-B-BULK | 1000 |
| 0.822 | 0.296 | – | – | S22-8V-B | 100 | S22-8V-B-BULK | 1000 |
| | | | | S16-10V-B | 100 | S16-10V-BULK | 1000 |
| 0.828 | 0.251 | – | – | S16-6V-B | 100 | S16-6V-B-BULK | 1000 |
| 0.781 | 0.295 | – | – | S16-8V-B | 100 | S16-8V-B-BULK | 1000 |
| 0.560 | 0.255 | – | – | S22-6-B | 100 | S22-6-B-BULK | 1000 |
| 0.560 | 0.301 | – | – | S22-8-B | 100 | S22-8-B-BULK | 1000 |
| 0.560 | 0.301 | – | – | S16-10-B | 100 | S16-10-B-BULK | 1000 |
| 0.736 | 0.332 | – | – | S16-6-B | 100 | S16-6-B-BULK | 1000 |
| 0.736 | 0.329 | – | – | S16-8-B | 100 | S16-8-B-BULK | 1000 |
| 0.904 | 0.293 | – | – | S22-10N-B | 100 | S22-10N-B-BULK | 1000 |
| 0.904 | 0.297 | – | – | S22-6N-B | 100 | S22-6N-B-BULK | 1000 |
| 0.556 | 0.305 | – | – | S16-10N-B | 100 | S16-10N-B-BULK | 1000 |
| 0.940 | 0.245 | – | – | S16-6N-B | 100 | S16-6N-B-BULK | 1000 |
| 0.940 | 0.295 | – | – | S16-8N-B | 100 | S16-8N-B-BULK | 1000 |

# Spade Terminals

## S SERIES

## FEATURES

### VINYL:

Open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.

Electro tin plated copper, vinyl (PVC) 300V, 75 °C.



### UN-INSULATED:

Open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.

Electro tin plated copper, 600V, 105 °C.



### NYLON:

Open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.

Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.



| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| Vinyl | 22-18 | 1/4 | |
| Vinyl | 22-18 | #10 | |
| Vinyl | 22-18 | #4 | UL |
| Vinyl | 22-18 | #6 | |
| Vinyl | 22-18 | #8 | |
| Vinyl | 16-14 | 1/4 | |
| Vinyl | 16-14 | #10 | |
| Vinyl | 16-14 | #6 | |
| Vinyl | 16-14 | #8 | |
| Vinyl | 12-10 | 1/4 | |
| Vinyl | 12-10 | #10 | |
| Vinyl | 12-10 | #6 | |
| Vinyl | 12-10 | #8 | |
| Un-insulated | 22-18 | #10 | UL |
| Un-insulated | 22-18 | #4 | UL |
| Un-insulated | 22-18 | #6 | |
| Un-insulated | 22-18 | #8 | UL |
| Un-insulated | 16-14 | #10 | |
| Un-insulated | 16-14 | #6 | |
| Un-insulated | 16-14 | #8 | UL |
| Un-insulated | 12-10 | 1/4 | NON-UL |
| Un-insulated | 12-10 | #10 | |
| Un-insulated | 12-10 | #6 | UL |
| Un-insulated | 12-10 | #8 | |
| Un-insulated | 8 | 1/4 | NON-UL |
| Un-insulated | 8 | #10 | NON-UL |
| Nylon | 22-18 | #10 | UL |
| Nylon | 22-18 | #4 | UL |
| Nylon | 22-18 | #6 | UL |
| Nylon | 22-18 | #8 | UL |
| Nylon | 16-14 | 1/4 | NON-UL |
| Nylon | 16-14 | #10 | |
| Nylon | 16-14 | #6 | |
| Nylon | 16-14 | #8 | |
| Nylon | 12-10 | 1/4 | |
| Nylon | 12-10 | #10 | |
| Nylon | 12-10 | #6 | |
| Nylon | 12-10 | #8 | |
| Nylon | 8 | 1/4 | NON-UL |
| Nylon | 8 | #10 | NON-UL |

| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 1.070 | 0.472 | – | – | – | – | S22-14V | 100 | S22-14V-BULK | 1000 |
| 0.826 | 0.374 | S22-10V-S | 25 | S22-10V-P | 100 | S22-10V | 100 | S22-10V-BULK | 1000 |
| 0.817 | 0.251 | – | – | – | – | S22-4V | 100 | S22-4V-BULK | 1000 |
| 0.826 | 0.228 | S22-6V-S | 25 | S22-6V-P | 100 | S22-6V | 100 | S22-6V-BULK | 1000 |
| 0.826 | 0.283 | S22-8V-S | 25 | S22-8V-P | 100 | S22-8V | 100 | S22-8V-BULK | 1000 |
| 0.812 | 0.543 | – | – | – | – | S16-14V | 100 | S16-14V-BULK | 1000 |
| 0.966 | 0.362 | S16-10V-S | 20 | S16-10V-P | 85 | S16-10V | 100 | S16-10V-BULK | 1000 |
| 0.966 | 0.388 | S16-6V-S | 20 | S16-6V-P | 85 | S16-6V | 100 | S16-6V-BULK | 1000 |
| 1.103 | 0.388 | S16-8V-S | 20 | S16-8V-P | 85 | S16-8V | 100 | S16-8V-BULK | 1000 |
| 1.103 | 0.375 | S12-14V-S | 12 | S12-14V-P | 40 | S12-14V | 50 | S12-14V-BULK | 500 |
| 1.103 | 0.375 | S12-10V-S | 15 | S12-10V-P | 50 | S12-10V | 50 | S12-10V-BULK | 500 |
| 1.103 | 0.375 | S12-6V-S | 15 | S12-6V-P | 50 | S12-6V | 50 | S12-6V-BULK | 500 |
| 0.690 | 0.316 | S12-8V-S | 15 | S12-8V-P | 50 | S12-8V | 50 | S12-8V-BULK | 500 |
| 0.623 | 0.251 | – | – | – | – | S22-10 | 100 | S22-10-BULK | 1000 |
| 0.629 | 0.228 | – | – | – | – | S22-4 | 100 | S22-4-BULK | 1000 |
| 0.778 | 0.316 | – | – | – | – | S22-6 | 100 | S22-6-BULK | 1000 |
| 0.770 | 0.388 | – | – | – | – | S22-8 | 100 | S22-8-BULK | 1000 |
| 0.638 | 0.245 | – | – | S16-10-P | 100 | S16-10 | 100 | S16-10-BULK | 1000 |
| 0.635 | 0.295 | – | – | – | – | S16-6 | 100 | S16-6-BULK | 1000 |
| 1.000 | 0.492 | – | – | S16-8-P | 100 | S16-8 | 100 | S16-8-BULK | 1000 |
| 0.812 | 0.375 | – | – | – | – | S12-14 | 50 | S12-14-BULK | 1000 |
| 0.812 | 0.375 | – | – | – | – | S12-10 | 50 | S12-10-BULK | 1000 |
| 0.812 | 0.375 | – | – | – | – | S12-6 | 50 | S12-6-BULK | 1000 |
| 0.953 | 0.471 | – | – | – | – | S12-8 | 50 | S12-8-BULK | 1000 |
| 0.956 | 0.471 | – | – | – | – | S8-14 | 50 | S8-14-BULK | 100 |
| 1.033 | 0.322 | – | – | – | – | S8-10 | 50 | S8-10-BULK | 100 |
| 0.727 | 0.187 | – | – | – | – | S22-10N | 100 | S22-10N-BULK | 1000 |
| 1.031 | 0.319 | – | – | – | – | S22-4N | 100 | S22-4N-BULK | 1000 |
| 0.898 | 0.286 | – | – | – | – | S22-6N | 100 | S22-6N-BULK | 1000 |
| 1.022 | 0.472 | – | – | – | – | S22-8N | 100 | S22-8N-BULK | 1000 |
| 0.898 | 0.338 | – | – | – | – | S16-14N | 100 | S16-14N-BULK | 1000 |
| 0.855 | 0.255 | – | – | – | – | S16-10N | 100 | S16-10N-BULK | 1000 |
| 0.855 | 0.286 | – | – | – | – | S16-6N | 100 | S16-6N-BULK | 1000 |
| 1.221 | 0.476 | – | – | – | – | S16-8N | 100 | S16-8N-BULK | 1000 |
| 1.024 | 0.375 | – | – | – | – | S12-14N | 50 | S12-14N-BULK | 500 |
| 1.000 | 0.336 | – | – | – | – | S12-10N | 50 | S12-10N-BULK | 500 |
| 1.000 | 0.375 | – | – | – | – | S12-6N | 50 | S12-6N-BULK | 500 |
| 1.256 | 0.474 | – | – | – | – | S12-8N | 50 | S12-8N-BULK | 500 |
| 1.256 | 0.474 | – | – | – | – | S8-14N | 50 | S8-14N-BULK | 500 |
| 1.256 | 0.474 | – | – | – | – | S8-10N | 50 | S8-10N-BULK | 500 |

# Ring Terminals
# Vinyl
## R SERIES

## FEATURES

### VINYL:

Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.

Electro tin plated copper with brazed seam, vinyl (PVC) 300V, 75 °C.







| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| Vinyl | 22-18 | 1/4 | |
| Vinyl | 22-18 | 5/16 | UL |
| Vinyl | 22-18 | 3/8 | UL |
| Vinyl | 22-18 | #10 | |
| Vinyl | 22-18 | #6 | |
| Vinyl | 22-18 | #8 | |
| Vinyl | 16-14 | 1/4 | |
| Vinyl | 16-14 | 5/16 | |
| Vinyl | 16-14 | 3/8 | |
| Vinyl | 16-14 | 1/2 | NON-UL |
| Vinyl | 16-14 | #10 | |
| Vinyl | 16-14 | #6 | |
| Vinyl | 16-14 | #8 | |
| Vinyl | 12-10 | 1/4 | |
| Vinyl | 12-10 | 5/16 | |
| Vinyl | 12-10 | 3/8 | |
| Vinyl | 12-10 | 1/2 | |
| Vinyl | 12-10 | #10 | |
| Vinyl | 12-10 | #6 | |
| Vinyl | 12-10 | #8 | |
| Vinyl | 8 | 1/4 | UL |
| Vinyl | 8 | 5/16 | UL |
| Vinyl | 8 | 3/8 | UL |
| Vinyl | 8 | 1/2 | UL |
| Vinyl | 8 | #10 | UL |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 1.055 | 0.456 | – | --- | – | – | **R22-14V** | 100 | **R22-14V-BULK** | 1000 |
| 1.085 | 0.464 | – | --- | – | – | **R22-56V** | 100 | **R22-56V-BULK** | 1000 |
| 1.306 | 0.534 | – | --- | – | – | **R22-38V** | 100 | **R22-38V-BULK** | 1000 |
| 0.826 | 0.314 | **R22-10V-S** | 25 | **R22-10V-P** | 100 | **R22-10V** | 100 | **R22-10V-BULK** | 1000 |
| 0.826 | 0.314 | **R22-6V-S** | 25 | – | – | **R22-6V** | 100 | **R22-6V-BULK** | 1000 |
| 0.826 | 0.314 | **R22-8V-S** | 25 | **R22-8V-P** | 100 | **R22-8V** | 100 | **R22-8V-BULK** | 1000 |
| 1.062 | 0.472 | – | --- | **R16-14V-P** | 70 | **R16-14V** | 100 | **R16-14V-BULK** | 1000 |
| 1.062 | 0.472 | – | --- | – | – | **R16-56V** | 100 | **R16-56V-BULK** | 1000 |
| 1.208 | 0.535 | – | --- | – | – | **R16-38V** | 100 | **R16-38V-BULK** | 1000 |
| 1.348 | 0.745 | – | --- | – | – | **R16-50V** | 100 | **R16-50V-BULK** | 1000 |
| 0.866 | 0.334 | **R16-10V-S** | 25 | **R16-10V-P** | 90 | **R16-10V** | 100 | **R16-10V-BULK** | 1000 |
| 0.767 | 0.259 | **R16-6V-S** | 25 | **R16-6V-P** | 90 | **R16-6V** | 100 | **R16-6V-BULK** | 1000 |
| 0.866 | 0.334 | **R16-8V-S** | 25 | **R16-8V-P** | 90 | **R16-8V** | 100 | **R16-8V-BULK** | 1000 |
| 1.141 | 0.472 | **R12-14V-S** | 20 | **R12-14V-P** | 50 | **R12-14V** | 50 | **R12-14V-BULK** | 500 |
| 1.326 | 0.59 | – | --- | – | – | **R12-56V** | 50 | **R12-56V-BULK** | 500 |
| 1.326 | 0.59 | **R12-38V-S** | 10 | – | – | **R12-38V** | 50 | **R12-38V-BULK** | 500 |
| 1.499 | 0.755 | – | --- | – | – | **R12-50V** | 50 | **R12-50V-BULK** | 500 |
| 1.003 | 0.374 | **R12-10V-S** | 10 | **R12-10V-P** | 50 | **R12-10V** | 50 | **R12-10V-BULK** | 500 |
| 1.003 | 0.374 | – | --- | – | – | **R12-6V** | 50 | **R12-6V-BULK** | 500 |
| 1.003 | 0.374 | **R12-8V-S** | 15 | **R12-8V-P** | 50 | **R12-8V** | 50 | **R12-8V-BULK** | 500 |
| 1.27 | 0.374 | – | --- | – | – | **R8-14V** | 50 | **R8-14V-BULK** | 250 |
| 1.31 | 0.328 | – | --- | – | – | **R8-56V** | 50 | **R8-56V-BULK** | 250 |
| 1.43 | 0.583 | – | --- | – | – | **R8-38V** | 50 | **R8-38V-BULK** | 250 |
| 1.73 | 0.81 | – | --- | – | – | **R8-50V** | 50 | **R8-50V-BULK** | 250 |
| 1.27 | 0.374 | – | --- | – | – | **R8-10V** | 50 | **R8-10V-BULK** | 250 |

# Ring Terminals Uninsulated

## R SERIES

## FEATURES

### UN-INSULATED:

Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.

Electro tin plated copper with brazed seam, 600V, 105 °C.



| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| Un-insulated | 22-18 | 1/4 | UL |
| Un-insulated | 22-18 | 5/16 | UL |
| Un-insulated | 22-18 | 3/8 | UL |
| Un-insulated | 22-18 | #10 | |
| Un-insulated | 22-18 | #6 | UL |
| Un-insulated | 22-18 | #8 | |
| Un-insulated | 16-14 | 1/4 | |
| Un-insulated | 16-14 | 5/16 | UL |
| Un-insulated | 16-14 | 3/8 | |
| Un-insulated | 16-14 | 1/2 | NON-UL |
| Un-insulated | 16-14 | #10 | |
| Un-insulated | 16-14 | #6 | UL |
| Un-insulated | 16-14 | #8 | |
| Un-insulated | #6 | 1/4 | UL |
| Un-insulated | #6 | 5/16 | UL |
| Un-insulated | #6 | 3/8 | UL |
| Un-insulated | #6 | 1/2 | UL |
| Un-insulated | #6 | #10 | UL |
| Un-insulated | #4 | 1/4 | UL |
| Un-insulated | #4 | 5/16 | UL |
| Un-insulated | #4 | 3/8 | UL |
| Un-insulated | #4 | 1/2 | UL |
| Un-insulated | #2 | 1/4 | UL |
| Un-insulated | #2 | 5/16 | UL |
| Un-insulated | #2 | 3/8 | UL |
| Un-insulated | #2 | 1/2 | UL |
| Un-insulated | 12-10 | 1/4 | |
| Un-insulated | 12-10 | 5/16 | |
| Un-insulated | 12-10 | 3/8 | |
| Un-insulated | 12-10 | 1/2 | NON-UL |
| Un-insulated | 12-10 | #10 | |
| Un-insulated | 12-10 | #6 | UL |
| Un-insulated | 12-10 | #8 | UL |
| Un-insulated | 8 | 1/4 | UL |
| Un-insulated | 8 | 5/16 | UL |
| Un-insulated | 8 | 3/8 | UL |
| Un-insulated | 8 | #10 | UL |

| | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|
| LENGTH (IN) | WIDTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.894 | 0.255 | – | – | **R22-14** | 100 | **R22-14-BULK** | 1000 |
| 0.893 | 0.323 | – | – | **R22-56** | 100 | **R22-56-BULK** | 1000 |
| 1.097 | 0.38 | – | – | **R22-38** | 100 | **R22-38-BULK** | 1000 |
| 0.629 | 0.314 | – | – | **R22-10** | 100 | **R22-10-BULK** | 1000 |
| 0.702 | 0.312 | – | – | **R22-6** | 100 | **R22-6-BULK** | 1000 |
| 0.629 | 0.314 | – | – | **R22-8** | 100 | **R22-8-BULK** | 1000 |
| 0.866 | 0.472 | – | – | **R16-14** | 100 | **R16-14-BULK** | 1000 |
| 0.892 | 0.472 | – | – | **R16-56** | 100 | **R16-56-BULK** | 1000 |
| 1.011 | 0.535 | – | – | **R16-38** | 100 | **R16-38-BULK** | 1000 |
| 1.123 | 0.748 | – | --- | **R16-50** | 100 | **R16-50-BULK** | 1000 |
| 0.669 | 0.334 | **R16-10-P** | 125 | **R16-10** | 100 | **R16-10-BULK** | 1000 |
| 0.704 | 0.313 | – | – | **R16-6** | 100 | **R16-6-BULK** | 1000 |
| 0.669 | 0.334 | **R16-8-P** | 125 | **R16-8** | 100 | **R16-8-BULK** | 1000 |
| 1.253 | 0.634 | – | – | **R6-14** | 50 | **R6-14-BULK** | 500 |
| 1.243 | 0.635 | – | – | **R6-56** | 50 | **R6-56-BULK** | 500 |
| 1.239 | 0.635 | – | – | **R6-38** | 50 | **R6-38-BULK** | 500 |
| 1.434 | 0.827 | – | – | **R6-50** | 50 | **R6-50-BULK** | 500 |
| 1.18 | 0.485 | – | – | **R6-10** | 50 | **R6-10-BULK** | 500 |
| 1.245 | 0.469 | – | – | **R4-14** | 25 | **R4-14-BULK** | 500 |
| 1.25 | 0.476 | – | – | **R4-56** | 25 | **R4-56-BULK** | 500 |
| 1.34 | 0.665 | – | – | **R4-38** | 25 | **R4-38-BULK** | 500 |
| 1.327 | 0.665 | – | – | **R4-50** | 25 | **R4-50-BULK** | 500 |
| 1.563 | 0.636 | – | – | **R2-14** | 25 | **R2-14-BULK** | 500 |
| 1.673 | 0.868 | – | – | **R2-56** | 25 | **R2-56-BULK** | 500 |
| 1.563 | 0.635 | – | – | **R2-38** | 25 | **R2-38-BULK** | 500 |
| 1.677 | 0.868 | – | – | **R2-50** | 25 | **R2-50-BULK** | 500 |
| 0.885 | 0.472 | – | – | **R12-14** | 50 | **R12-14-BULK** | 1000 |
| 1.07 | 0.59 | – | – | **R12-56** | 50 | **R12-56-BULK** | 500 |
| 1.07 | 0.59 | – | – | **R12-38** | 50 | **R12-38-BULK** | 500 |
| 1.284 | 0.755 | – | – | **R12-50** | 50 | **R12-50-BULK** | 500 |
| 0.74 | 0.372 | **R12-10-P** | 80 | **R12-10** | 50 | **R12-10-BULK** | 1000 |
| 0.766 | 0.374 | – | – | **R12-6** | 50 | **R12-6-BULK** | 500 |
| 0.766 | 0.376 | – | – | **R12-8** | 50 | **R12-8-BULK** | 500 |
| 0.956 | 0.457 | – | – | **R8-14** | 50 | **R8-14-BULK** | 500 |
| 0.952 | 0.471 | – | – | **R8-56** | 50 | **R8-56-BULK** | 500 |
| 1.083 | 0.59 | – | – | **R8-38** | 50 | **R8-38-BULK** | 500 |
| 0.955 | 0.47 | – | – | **R8-10** | 50 | **R8-10-BULK** | 500 |

# Ring Terminals
# Nylon
## R SERIES

## FEATURES

**NYLON:**
Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.

Electro tin plated copper with brazed seam, easy-entry Nylon, 600V, 105 °C.

c UL us







| INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|
| Nylon | 22-18 | 1/4 | UL |
| Nylon | 22-18 | 5/16 | UL |
| Nylon | 22-18 | 3/8 | UL |
| Nylon | 22-18 | #10 | UL |
| Nylon | 22-18 | #4 | UL |
| Nylon | 22-18 | #6 | |
| Nylon | 22-18 | #8 | UL |
| Nylon | 16-14 | 1/4 | UL |
| Nylon | 16-14 | 5/16 | UL |
| Nylon | 16-14 | 3/8 | UL |
| Nylon | 16-14 | 1/2 | NON-UL |
| Nylon | 16-14 | #10 | |
| Nylon | 16-14 | #6 | UL |
| Nylon | 16-14 | #8 | |
| Nylon | #6 | 1/4 | UL |
| Nylon | #6 | 5/16 | UL |
| Nylon | #6 | 3/8 | UL |
| Nylon | #6 | 1/2 | NON-UL |
| Nylon | #4 | 1/4 | UL |
| Nylon | #4 | 5/16 | UL |
| Nylon | #4 | 3/8 | UL |
| Nylon | #4 | 1/2 | UL |
| Nylon | #2 | 1/4 | UL |
| Nylon | #2 | 5/16 | UL |
| Nylon | #2 | 3/8 | UL |
| Nylon | #2 | 1/2 | NON-UL |
| Nylon | 12-10 | 1/4 | |
| Nylon | 12-10 | 5/16 | UL |
| Nylon | 12-10 | 3/8 | UL |
| Nylon | 12-10 | 1/2 | NON-UL |
| Nylon | 12-10 | #10 | |
| Nylon | 12-10 | #6 | UL |
| Nylon | 12-10 | #8 | UL |
| Nylon | 8 | 1/4 | UL |
| Nylon | 8 | 5/16 | UL |
| Nylon | 8 | 3/8 | UL |
| Nylon | 8 | #10 | UL |

| | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|
| LENGTH (IN) | WIDTH (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 1.094 | 0.456 | --- | --- | **R22-14N** | 100 | **R22-14N-BULK** | 1000 |
| 1.094 | 0.456 | --- | --- | **R22-56N** | 100 | **R22-56N-BULK** | 1000 |
| 1.248 | 0.535 | --- | --- | **R22-38N** | 100 | **R22-38N-BULK** | 1000 |
| 0.866 | 0.314 | --- | --- | **R22-10N** | 100 | **R22-10N-BULK** | 1000 |
| 0.953 | 0.264 | --- | --- | **R22-4N** | 100 | **R22-4N-BULK** | 1000 |
| 0.866 | 0.314 | --- | --- | **R22-6N** | 100 | **R22-6N-BULK** | 1000 |
| 0.866 | 0.314 | --- | --- | **R22-8N** | 100 | **R22-8N-BULK** | 1000 |
| 1.102 | 0.472 | --- | --- | **R16-14N** | 100 | **R16-14N-BULK** | 1000 |
| 0.807 | 0.529 | --- | --- | **R16-56N** | 100 | **R16-56N-BULK** | 1000 |
| 1.248 | 0.535 | --- | --- | **R16-38N** | 100 | **R16-38N-BULK** | 1000 |
| 1.44 | 0.755 | --- | --- | **R16-50N** | 100 | **R16-50N-BULK** | 1000 |
| 0.905 | 0.334 | --- | --- | **R16-10N** | 100 | **R16-10N-BULK** | 1000 |
| 0.995 | 0.31 | --- | --- | **R16-6N** | 100 | **R16-6N-BULK** | 1000 |
| 0.905 | 0.334 | --- | --- | **R16-8N** | 100 | **R16-8N-BULK** | 1000 |
| 1.355 | 0.48 | --- | --- | **R6-14N** | 50 | **R6-14N-BULK** | 250 |
| 1.355 | 0.64 | --- | --- | **R6-56N** | 50 | **R6-56N-BULK** | 250 |
| 1.355 | 0.64 | --- | --- | **R6-38N** | 50 | **R6-38N-BULK** | 250 |
| 1.447 | 0.832 | --- | --- | **R6-50N** | 50 | **R6-50N-BULK** | 250 |
| 1.85 | 0.475 | --- | --- | **R4-14N** | 25 | **R4-14N-BULK** | 100 |
| 1.85 | 0.475 | --- | --- | **R4-56N** | 25 | **R4-56N-BULK** | 100 |
| 1.95 | 0.668 | --- | --- | **R4-38N** | 25 | **R4-38N-BULK** | 100 |
| 1.95 | 0.668 | --- | --- | **R4-50N** | 25 | **R4-50N-BULK** | 100 |
| 1.821 | 0.645 | --- | --- | **R2-14N** | 25 | **R2-14N-BULK** | 100 |
| 1.821 | 0.645 | --- | --- | **R2-56N** | 25 | **R2-56N-BULK** | 100 |
| 1.821 | 0.645 | --- | --- | **R2-38N** | 25 | **R2-38N-BULK** | 100 |
| 2.202 | 0.863 | --- | --- | **R2-50N** | 25 | **R2-50N-BULK** | 100 |
| 1.161 | 0.472 | --- | --- | **R12-14N** | 50 | **R12-14N-BULK** | 500 |
| 1.346 | 0.59 | --- | --- | **R12-56N** | 50 | **R12-56N-BULK** | 500 |
| 1.346 | 0.59 | --- | --- | **R12-38N** | 50 | **R12-38N-BULK** | 500 |
| 1.519 | 0.755 | --- | --- | **R12-50N** | 50 | **R12-50N-BULK** | 500 |
| 1.023 | 0.374 | --- | --- | **R12-10N** | 50 | **R12-10N-BULK** | 500 |
| 1.023 | 0.374 | --- | --- | **R12-6N** | 50 | **R12-6N-BULK** | 500 |
| 1.023 | 0.374 | --- | --- | **R12-8N** | 50 | **R12-8N-BULK** | 500 |
| 1.39 | 0.468 | --- | --- | **R8-14N** | 50 | **R8-14N-BULK** | 250 |
| 1.39 | 0.468 | --- | --- | **R8-56N** | 50 | **R8-56N-BULK** | 250 |
| 1.51 | 0.588 | --- | --- | **R8-38N** | 50 | **R8-38N-BULK** | 250 |
| 1.39 | 0.468 | --- | --- | **R8-10N** | 50 | **R8-10N-BULK** | 500 |

# Male & Female Plugs Plier Tap and Pin Terminal, Male/Female Adapter

## PM, PF, PTC, PT SERIES

## FEATURES

### UN-INSULATED/ NYLON:

Electro tin plated copper, nylon 600V, 75 °C.



| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Plugs Male | Un-insulated | 22-18 | 0.157 | NON-UL |
| Plugs Male | Un-insulated | 16-14 | 0.157 | NON-UL |
| Plugs Male | Nylon | 22-18 | 0.157 | UL |
| Plugs Male | Nylon | 16-14 | 0.157 | UL |

### UN-INSULATED/ NYLON:

Female plug style with safety & reliability.

Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.



| | | | | |
|---|---|---|---|---|
| Plugs Female | Un-insulated | 22-18 | 0.157 | NON-UL |
| Plugs Female | Un-insulated | 16-14 | 0.157 | NON-UL |
| Plugs Female | Nylon | 22-18 | 0.157 | UL |
| Plugs Female | Nylon | 22-18 | 0.157 | NON-UL |
| Plugs Female | Nylon | 16-14 | 0.157 | UL |
| Plugs Female | Nylon | 16-14 | 0.157 | NON-UL |
| Plugs Female | Nylon | 16-14 | 0.197 | NON-UL |

### VINYL:

Insulation piercing tap.

Electro tin plated copper with brazed seam, Vinyl (PVC), 600V, 75 °C



| | | | |
|---|---|---|---|
| Plier Tap Connector | Vinyl | 22-18 | n/a |
| Plier Tap Connector | Vinyl | 16-14 | n/a |
| Plier Tap Connector | Vinyl | 12-10 | n/a |

### VINYL:

Pin terminal style designed for use in terminal blocks.

Electro tin plated copper with brazed seam, 600V, 105 °C.

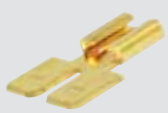


| | | | |
|---|---|---|---|
| Pin Terminal | Vinyl | 22-18 | n/a |
| Pin Terminal | Vinyl | 16-14 | n/a |
| Pin Terminal | Vinyl | 12-10 | n/a |

### UN-INSULATED:

Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Brass, Quick disconnect, Easy-entry, 600V, 105 °C.



| | | | |
|---|---|---|---|
| Male Female Adapter | Un-insulated | n/a | 0.250 |
| Male Female Adapter | Un-insulated | n/a | 0.250 |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.630 | 0.145 | – | --- | --- | --- | **PM22-157** | 100 | **PM22-157-BULK** | 1000 |
| 0.630 | 0.136 | – | --- | --- | --- | **PM16-157** | 100 | **PM16-157-BULK** | 1000 |
| 0.890 | 0.145 | – | --- | --- | --- | **PM22-157N** | 100 | **PM22-157N-BULK** | 1000 |
| 0.890 | 0.145 | – | --- | --- | --- | **PM16-157N** | 100 | **PM16-157N-BULK** | 1000 |
| | | | | | | | | | |
| 0.680 | 0.194 | – | --- | --- | --- | **PF22-157** | 100 | **PF22-157-BULK** | 1000 |
| 0.680 | 0.185 | – | --- | --- | --- | **PF16-157** | 100 | **PF16-157-BULK** | 1000 |
| 1.000 | 0.128 | – | --- | --- | --- | **PF22-157N** | 100 | **PF22-157N-BULK** | 1000 |
| 1.234 | 0.309 | – | --- | --- | --- | **PFS22-157N** | 100 | **PFS22-157N-BULK** | 1000 |
| 1.000 | 0.150 | – | --- | --- | --- | **PF16-157N** | 100 | **PF16-157N-BULK** | 1000 |
| 1.233 | 0.339 | – | --- | --- | --- | **PFS16-157N** | 100 | **PFS16-157N-BULK** | 1000 |
| 1.233 | 0.339 | – | --- | --- | --- | **PFS16-197N** | 100 | **PFS16-197N-BULK** | 1000 |
| | | | | | | | | | |
| 0.790 | 0.550 | – | --- | --- | --- | **PTC22-18** | 100 | **PTC22-18-BULK** | 500 |
| 0.790 | 0.550 | – | --- | --- | --- | **PTC16-14** | 100 | **PTC16-14-BULK** | 500 |
| 0.800 | 0.740 | – | --- | --- | --- | **PTC12-10** | 50 | **PTC12-10-BULK** | 250 |
| | | | | | | | | | |
| 0.930 | 0.078 | – | --- | --- | --- | **PT-22V** | 100 | **PT-22V-BULK** | 1000 |
| 0.930 | 0.078 | – | --- | --- | --- | **PT-16V** | 100 | **PT-16V-BULK** | 1000 |
| 1.120 | 0.107 | – | --- | --- | --- | **PT-12V** | 50 | **PT-12V-BULK** | 500 |
| | | | | | | | | | |
| 0.825 | 0.564 | – | – | --- | --- | **250-3-Z** | 100 | **250-3-Z-BULK** | 1000 |
| 0.825 | 0.564 | **DMT250-3-S** | 15 | **DMT250-3-P** | 60 | **DMT250-3** | 100 | **DMT250-3-BULK** | 1000 |

# High Temperature Spade, Ring, Piggyback & Disconnect

## HT SERIES

## FEATURES

**UN-INSULATED:**
Spade style terminal, Nickel plated copper, brazed seam, 900 °F

**UN-INSULATED:**
Ring style terminal, Nickel plated copper, brazed seam, 900 °F

**UN-INSULATED:**
Turned up edges give this spade more safety and reliability.

**UN-INSULATED:**
Male disconnect

**UN-INSULATED:**
Female flag style terminal

**UN-INSULATED:**
Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.

Female quick disconnect with brazed seam, 600V, 105 °C.













| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Spade | Un-insulated | 12-10 | #10 | |
| Ring | Un-insulated | 22-18 | #10 | UL |
| Ring | Un-insulated | 22-18 | #6 | NON-UL |
| Ring | Un-insulated | 22-18 | #8 | UL |
| Ring | Un-insulated | 16-14 | #10 | UL |
| Ring | Un-insulated | 16-14 | #6 | UL |
| Ring | Un-insulated | 16-14 | #8 | UL |
| Ring | Un-insulated | 12-10 | 1/4 | NON-UL |
| Ring | Un-insulated | 12-10 | #10 | UL |
| Ring | Un-insulated | 12-10 | #8 | NON-UL |
| Piggyback | Un-insulated | 16-14 | 0.250 | |
| Disconnect Male | Un-insulated | 12-10 | 0.250 | |
| Disconnect Female Flag | Un-insulated | 16-14 | 0.250 | |
| Disconnect Female Flag | Un-insulated | 12-10 | 0.250 | |
| Disconnect Female | Un-insulated | 16-14 | 0.250 | |
| Disconnect Female | Un-insulated | 12-10 | 0.250 | |
| Disconnect Female | Un-insulated | 8 | 0.250 | |



| L (IN) | W (IN) | "S" PACKS CAT. NO. | QTY | PRO PACKS CAT. NO. | QTY | STD PACKS CAT. NO. | QTY | BULK PACKS CAT. NO. | QTY |
|---|---|---|---|---|---|---|---|---|---|
| 0.499 | 0.384 | **HTS12-10-S** | 15 | – | – | – | --- | **HTS12-10-BULK** | 1000 |
| 0.443 | 0.325 | – | – | – | – | **HTR22-10** | 100 | **HTR22-10-BULK** | 1000 |
| 0.443 | 0.270 | – | – | – | – | **HTR22-6** | 100 | **HTR22-6-BULK** | 1000 |
| 0.411 | 0.270 | – | – | – | – | **HTR22-8** | 100 | **HTR22-8-BULK** | 1000 |
| 0.450 | 0.384 | – | – | **HTR16-10-P** | 100 | **HTR16-10** | 100 | **HTR16-10-BULK** | 1000 |
| 0.470 | 0.345 | – | – | – | – | **HTR16-6** | 100 | **HTR16-6-BULK** | 1000 |
| 0.444 | 0.390 | – | – | – | – | **HTR16-8** | 100 | **HTR16-8-BULK** | 1000 |
| 0.616 | 0.482 | – | – | – | – | **HTR12-14** | 50 | **HTR12-14-BULK** | 1000 |
| 0.530 | 0.384 | – | – | **HTR12-10-P** | 60 | **HTR12-10** | 50 | **HTR12-10-BULK** | 1000 |
| 0.530 | 0.384 | – | – | – | – | **HTR12-8** | 50 | **HTR12-8-BULK** | 1000 |
| 0.625 | 0.291 | – | – | – | – | **HTP16-250-3** | --- | **HTP16-250-3-BULK** | 1000 |
| 0.685 | 0.250 | – | – | – | – | **HTM12-250-3** | 50 | **HTM12-250-3-BULK** | 1000 |
| 0.506 | 0.312 | – | – | **HTSF16-250-3-P** | 60 | **HTSF16-250-3** | 60 | **HTSF16-250-3-BULK** | 1000 |
| 0.587 | 0.294 | – | – | **HTSF12-250-3-P** | 50 | **HTSF12-250-3** | 50 | **HTSF12-250-3-BULK** | 1000 |
| 0.500 | 0.250 | **HTF16-250-3-S** | 15 | **HTF16-250-3-P** | 60 | **HTF16-250-3** | 50 | **HTF16-250-3-BULK** | 1000 |
| 0.690 | 0.304 | **HTF12-250-3-S** | 15 | | | – | --- | **HTF12-250-3-BULK** | 500 |
| 0.715 | 0.304 | – | – | **HTF8-250-3-P** | – | **HTF8-250-3** | 25 | **HTF8-250-3-BULK** | 1000 |

# Male Disconnects: Fully Insulated & Male/ Female Adapter

## M, IM, FCT SERIES

## FEATURES

### VINYL:
Electro tin plated, vinyl (PVC) 300V, 75 °C. Brazed seam, Male disconnect

### UN-INSULATED:
Electro tin plated copper, 600V, 105 °C. Brazed seam, Male disconnect

### NYLON:
Fully insulated male disconnect. Brazed seam, nylon, 300V, 105 °C.

### UN-INSULATED-BARE:
Turned up edges give this quick disconnect adaptor more safety and reliability.
600V, 105 °C.









| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Male Fully Insulated Barrel | Vinyl | 22-18 | 0.250 | |
| Male Fully Insulated Barrel | Vinyl | 16-14 | 0.187 | |
| Male Fully Insulated Barrel | Vinyl | 16-14 | 0.250 | |
| Male Fully Insulated Barrel | Vinyl | 12-10 | 0.250 | |
| Un-Insulated Male Barrel | Un-insulated | 16-14 | 0.187 | NON-UL |
| Un-Insulated Male Barrel | Un-insulated | 16-14 | 0.250 | NON-UL |
| Un-Insulated Male Barrel | Un-insulated | 12-10 | 0.250 | NON-UL |
| Male Fully Insulated | Nylon | 22-18 | 0.250 | |
| Male Fully Insulated | Nylon | 22-18 | 0.250 | UL |
| Male Fully Insulated | Nylon | 16-14 | 0.187 | |
| Male Fully Insulated | Nylon | 16-14 | 0.250 | |
| Male Fully Insulated | Nylon | 16-14 | 0.250 | |
| Male Fully Insulated | Nylon | 12-10 | 0.250 | |
| Male Fully Insulated | Nylon | 12-10 | 0.250 | UL |
| | | | | |
| Male/Female Adapter | Un-insulated | 12-10 | 0.250 | |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.834 | 0.249 | **M22-250-3V-S** | 25 | – | – | **M22-250-3V** | 100 | **M22-250-3V-BULK** | 1000 |
| 0.755 | 0.188 | – | – | – | – | **M16-187-2V** | 100 | **M16-187-2V-BULK** | 1000 |
| 0.834 | 0.249 | **M16-250-3V-S** | 30 | **M16-250-3V-P** | 100 | **M16-250-3V** | 100 | **M16-250-3V-BULK** | 1000 |
| 0.933 | 0.249 | **M12-250-3V-S** | 25 | **M12-250-3V-P** | 50 | **M12-250-3V** | 50 | **M12-250-3V-BULK** | 500 |
| 0.630 | 0.240 | – | – | – | – | **M16-187-2** | 100 | **M16-187-2-BULK** | 1000 |
| 0.630 | 0.240 | – | – | – | – | **M16-250-3** | 100 | **M16-250-3-BULK** | 1000 |
| 0.765 | 0.250 | – | – | – | – | **M12-250-3** | 50 | **M12-250-3-BULK** | 1000 |
| 0.925 | 0.249 | – | – | – | – | **IM22-250-3N** | 100 | **IM22-250-3N-BULK** | 1000 |
| 0.904 | 0.249 | – | – | – | – | **M22-250-3N** | 100 | **M22-250-3N-BULK** | 1000 |
| 0.795 | 0.188 | – | – | – | – | **M16-187-2N** | 100 | **M16-187-2N-BULK** | 1000 |
| 0.925 | 0.249 | **IM16-250-3N-S** | 20 | **IM16-250-3N-P** | 30 | **IM16-250-3N** | 50 | **IM16-250-3N-BULK** | 1000 |
| 0.874 | 0.249 | – | – | – | – | **M16-250-3N** | 100 | **M16-250-3N-BULK** | 1000 |
| 1.062 | 0.249 | – | – | – | – | **IM12-250-3N** | 50 | **IM12-250-3N-BULK** | 500 |
| 1.061 | 0.249 | – | – | – | – | **M12-250-3N** | 50 | **M12-250-3N-BULK** | 500 |
| | | | | | | | | | |
| 0.529 | 0.549 | **FCT12-250-3-S** | 10 | – | – | **FCT12-250-3** | 50 | **FCT12-250-3-BULK** | 1000 |

# Female Disconnects: Piggyback, Sleeved Barrel & Fully Insulated

## P, IFS, IF SERIES

## FEATURES

### VINYL/ UN-INSULATED/ NYLON:

Electro tin plated copper, 600V, 105 °C, Vinyl



### NYLON:

Electro tin plated copper, 600V, 105 °C, Nylon, Female fully insulated quick disconnect with seamed barrel.



### NYLON:

Female, fully insulated quick disconnect with brazed seam 600V, 105 °C, Nylon



| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Female Piggyback | Vinyl | 22-18 | 0.250 | |
| Female Piggyback | Vinyl | 16-14 | 0.250 | |
| Female Piggyback | Vinyl | 12-10 | 0.250 | UL |
| Female Piggyback | Un-insulated | 16-14 | 0.250 | |
| Female Piggyback | Nylon | 22-18 | 0.250 | |
| Female Piggyback | Nylon | 16-14 | 0.250 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 22-18 | 0.110 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 22-18 | 0.110 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 22-18 | 0.250 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 16-14 | 0.250 | |
| Female Fully Insulated Sleeved Barrel | Nylon | 12-10 | 0.250 | |
| Female Fully Insulated | Nylon | 22-18 | 0.110 | UL |
| Female Fully Insulated | Nylon | 22-18 | 0.110 | UL |
| Female Fully Insulated | Nylon | 22-18 | 0.187 | UL |
| Female Fully Insulated | Nylon | 22-18 | 0.187 | UL |
| Female Fully Insulated | Nylon | 22-18 | 0.250 | |
| Female Fully Insulated | Nylon | 16-14 | 0.187 | |
| Female Fully Insulated | Nylon | 16-14 | 0.187 | UL |
| Female Fully Insulated | Nylon | 16-14 | 0.250 | |
| Female Fully Insulated | Nylon | 16-14 | 0.250 | NON-UL |
| Female Fully Insulated | Nylon | 12-10 | 0.250 | |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.826 | 0.259 | – | – | – | – | P22-250-3V | 100 | P22-250-3V-BULK | 1000 |
| 0.826 | 0.259 | P16-250-3V-S | 15 | P16-250-3V-P | 40 | P16-250-3V | 100 | P16-250-3V-BULK | 1000 |
| 1.010 | 0.250 | – | – | – | – | P12-250-3V | 50 | P12-250-3V-BULK | 500 |
| 0.677 | 0.295 | – | --- | – | --- | P16-250-3 | 100 | P16-250-3-BULK | 1000 |
| 0.866 | 0.259 | – | | – | --- | P22-250-3N | 100 | P22-250-3N-BULK | 1000 |
| 0.866 | 0.259 | – | – | – | – | P16-250-3N | 100 | P16-250-3N-BULK | 1000 |
| | | | | | | | | | |
| 0.800 | 0.230 | – | – | – | – | IFS22-110-2N | 100 | IFS22-110-2N-BULK | 1000 |
| 0.800 | 0.230 | – | – | – | – | IFS22-110-3N | 100 | IFS22-110-3N-BULK | 1000 |
| 0.890 | 0.380 | – | – | – | – | IFS22-250-3N | 100 | IFS22-250-3N-BULK | 1000 |
| 0.890 | 0.380 | – | – | – | – | IFS16-250-3N | 100 | IFS16-250-3N-BULK | 1000 |
| 1.040 | 0.380 | – | – | – | – | IFS12-250-3N | 50 | IFS12-250-3N-BULK | 500 |
| | | | | | | | | | |
| 0.800 | 0.230 | – | – | – | – | IF22-110-2N | 100 | IF22-110-2N-BULK | 1000 |
| 0.800 | 0.230 | – | – | – | – | IF22-110-3N | 100 | IF22-110-3N-BULK | 1000 |
| 0.780 | 0.320 | – | – | – | – | IF22-187-2N | 100 | IF22-187-2N-BULK | 1000 |
| 0.780 | 0.320 | – | – | – | – | IF22-187-3N | 100 | IF22-187-3N-BULK | 1000 |
| 0.866 | 0.259 | – | – | – | – | IF22-250-3N | 100 | IF22-250-3N-BULK | 1000 |
| 0.780 | 0.320 | – | – | – | – | IF16-187-2N | 100 | IF16-187-2N-BULK | 1000 |
| 0.780 | 0.320 | – | – | – | – | IF16-187-3N | 100 | IF16-187-3N-BULK | 1000 |
| 0.866 | 0.259 | IF16-250-3N-S | 12 | IF16-250-3N-P | 50 | IF16-250-3N | 100 | IF16-250-3N-BULK | 1000 |
| 0.955 | 0.395 | IF16-250-3N-IG-S | 10 | – | – | IF16-250-3N-IG | 100 | IF16-250-3N-IG-BULK | 1000 |
| 0.964 | 0.259 | IF12-250-3N-S | 12 | IF12-250-3N-P | 30 | IF12-250-3N | 50 | IF12-250-3N-BULK | 500 |

# Female Flag & Fully Insulated Flag, Two-Way Receptacle

## IFL, SF, DFR SERIES

## FEATURES

**NYLON:**
Electro tin plated copper, 600V, 105 °C. Female flag style fully insulated quick disconnect

**UN-INSULATED:**
Electro tin plated copper, 600V, 105 °C.

**NYLON:**
Turned up edges give this splice more safety and reliability.
600V, 105 °C.







| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Female Flag Fully Insulated | Nylon | 22-18 | 0.250 | |
| Female Flag Fully Insulated | Nylon | 16-14 | 0.250 | |
| Female Flag Fully Insulated | Nylon | 12-10 | 0.250 | |
| Female Flag | Un-insulated | 22-18 | 0.250 | UL |
| Female Flag | Un-insulated | 16-14 | 0.187 | UL |
| Female Flag | Un-insulated | 16-14 | 0.250 | |
| Female Flag | Un-insulated | 12-10 | 0.250 | |
| Female Flag | Un-insulated | 12-10 | 0.250 | NON-UL |
| 2 Way Receptacle | Nylon | n/a | 0.157 | |



| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.630 | 0.236 | – | – | – | – | **IFL22-250-3N** | 100 | **IFL22-250-3N-BULK** | 1000 |
| 0.630 | 0.390 | – | – | – | – | **IFL16-250-3N** | 100 | **IFL16-250-3N-BULK** | 1000 |
| 0.667 | 0.311 | **IFL12-250-3N-S** | 12 | **IFL12-250-3N-P** | 30 | **IFL12-250-3N** | 50 | **IFL12-250-3N-BULK** | 500 |
| | | | | | | | | | |
| 0.539 | 0.312 | – | – | – | – | **SF22-250-3** | 100 | **SF22-250-3-BULK** | 1000 |
| 0.539 | 0.312 | – | --- | **SF16-187-2-P** | – | **SF16-187-2** | 100 | **SF16-187-2-BULK** | 1000 |
| 0.539 | 0.312 | **SF16-250-3-S** | 20 | – | – | **SF16-250-3** | 100 | **SF16-250-3-BULK** | 1000 |
| 0.582 | 0.259 | **SF12-250-3-S** | 15 | – | – | **SF12-250-3** | 50 | **SF12-250-3-BULK** | 1000 |
| 0.570 | 0.320 | – | – | – | – | **SF12-250-3-SP** | 50 | **SF12-250-3-SP-BULK** | 1000 |
| | | | | | | | | | |
| – | | – | – | – | – | **DFR-157N** | 100 | **DFR-157N-BULK** | 1000 |

# Female Disconnects

## F SERIES

## FEATURES

### VINYL:

Electro tin plated copper, 600V, 105 °C. Female, quick disconnect, Vinyl



### UN-INSULATED-BARE:

Electro tin plated copper, 600V, 105 °C. Female quick disconnect



### NYLON:

Turned up edges give this disconnect more safety and reliability.
600V, 105 °C, Nylon



| STYLE | INSULATION TYPE | WIRE RANGE | STUD SIZE | CERTIFICATION VARIANCE |
|---|---|---|---|---|
| Female | Vinyl | 22-18 | 0.110 | |
| Female | Vinyl | 22-18 | 0.110 | UL |
| Female | Vinyl | 22-18 | 0.187 | |
| Female | Vinyl | 22-18 | 0.187 | UL |
| Female | Vinyl | 22-18 | 0.250 | |
| Female | Vinyl | 16-14 | 0.110 | UL |
| Female | Vinyl | 16-14 | 0.110 | UL |
| Female | Vinyl | 16-14 | 0.187 | |
| Female | Vinyl | 16-14 | 0.187 | |
| Female | Vinyl | 16-14 | 0.250 | |
| Female | Vinyl | 12-10 | 0.250 | |
| Female | Un-insulated | 22-18 | 0.110 | UL |
| Female | Un-insulated | 22-18 | 0.110 | UL |
| Female | Un-insulated | 22-18 | 0.187 | UL |
| Female | Un-insulated | 22-18 | 0.187 | UL |
| Female | Un-insulated | 22-18 | 0.250 | |
| Female | Un-insulated | 16-14 | 0.110 | UL |
| Female | Un-insulated | 16-14 | 0.110 | |
| Female | Un-insulated | 16-14 | 0.187 | UL |
| Female | Un-insulated | 16-14 | 0.187 | UL |
| Female | Un-insulated | 16-14 | 0.250 | |
| Female | Un-insulated | 12-10 | 0.250 | |
| Female | Un-insulated | 8 | 0.250 | NON-UL |
| Female | Nylon | 22-18 | 0.110 | NON-UL |
| Female | Nylon | 22-18 | 0.110 | UL |
| Female | Nylon | 22-18 | 0.187 | UL |
| Female | Nylon | 22-18 | 0.187 | UL |
| Female | Nylon | 22-18 | 0.250 | |
| Female | Nylon | 16-14 | 0.110 | UL |
| Female | Nylon | 16-14 | 0.110 | UL |
| Female | Nylon | 16-14 | 0.187 | UL |
| Female | Nylon | 16-14 | 0.187 | |
| Female | Nylon | 16-14 | 0.250 | |
| Female | Nylon | 12-10 | 0.250 | |

| | | "S" PACKS | | PRO PACKS | | STD PACKS | | BULK PACKS | |
|---|---|---|---|---|---|---|---|---|---|
| L (IN) | W (IN) | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY | CAT. NO. | QTY |
| 0.728 | 0.125 | – | – | – | – | F22-110-2V | 100 | F22-110-2V-BULK | 1000 |
| 0.789 | 0.170 | – | – | – | – | F22-110-3V | 100 | F22-110-3V-BULK | 1000 |
| 0.748 | 0.196 | – | – | – | – | F22-187-2V | 100 | F22-187-2V-BULK | 1000 |
| 0.789 | 0.250 | – | – | – | – | F22-187-3V | 100 | F22-187-3V-BULK | 1000 |
| 0.826 | 0.259 | F22-250-3V-S | 25 | F22-250-3V-P | 80 | F22-250-3V | 100 | F22-250-3V-BULK | 1000 |
| 0.789 | 0.170 | – | – | – | – | F16-110-2V | 100 | F16-110-2V-BULK | 1000 |
| 0.789 | 0.170 | – | – | – | – | F16-110-3V | 100 | F16-110-3V-BULK | 1000 |
| 0.748 | 0.196 | F16-187-2V-S | 25 | – | – | F16-187-2V | 100 | F16-187-2V-BULK | 1000 |
| 0.748 | 0.196 | – | – | – | – | F16-187-3V | 100 | F16-187-3V-BULK | 1000 |
| 0.826 | 0.259 | F16-250-3V-S | 25 | F16-250-3V-P | 70 | F16-250-3V | 100 | F16-250-3V-BULK | 1000 |
| 0.925 | 0.259 | F12-250-3V-S | | F12-250-3V-P | 50 | F12-250-3V | 50 | F12-250-3V-BULK | 500 |
| 0.550 | 0.150 | – | – | – | – | F22-110-2 | 100 | F22-110-2-BULK | 1000 |
| 0.554 | 0.150 | – | – | – | – | F22-110-3 | 100 | F22-110-3-BULK | 1000 |
| 0.565 | 0.233 | – | – | – | – | F22-187-2 | 100 | F22-187-2-BULK | 1000 |
| 0.565 | 0.233 | – | – | – | – | F22-187-3 | 100 | F22-187-3-BULK | 1000 |
| 0.629 | 0.259 | – | – | F22-250-3-P | 100 | F22-250-3 | 100 | F22-250-3-BULK | 1000 |
| 0.557 | 0.149 | – | – | – | – | F16-110-2 | 100 | F16-110-2-BULK | 1000 |
| 0.531 | 0.125 | – | – | – | – | F16-110-3 | 100 | F16-110-3-BULK | 1000 |
| 0.556 | 0.233 | – | – | – | – | F16-187-2 | 100 | F16-187-2-BULK | 1000 |
| 0.559 | 0.233 | – | – | – | – | F16-187-3 | 100 | F16-187-3-BULK | 1000 |
| 0.629 | 0.259 | – | – | F16-250-3-P | 125 | F16-250-3 | 100 | F16-250-3-BULK | 1000 |
| 0.669 | 0.259 | – | – | – | – | F12-250-3 | 50 | F12-250-3-BULK | 500 |
| 0.665 | 0.320 | – | – | – | – | F8-250-3 | 50 | F8-250-3-BULK | 1000 |
| 0.789 | 0.163 | – | – | – | – | F22-110-2N | 100 | F22-110-2N-BULK | 1000 |
| 0.789 | 0.210 | – | – | – | – | F22-110-3N | 100 | F22-110-3N-BULK | 1000 |
| 0.789 | 0.125 | – | – | – | – | F22-187-2N | 100 | F22-187-2N-BULK | 1000 |
| 0.789 | 0.125 | – | – | – | – | F22-187-3N | 100 | F22-187-3N-BULK | 1000 |
| 0.866 | 0.259 | – | – | – | – | F22-250-3N | 100 | F22-250-3N-BULK | 1000 |
| 0.789 | 0.163 | – | – | – | – | F16-110-2N | 100 | F16-110-2N-BULK | 1000 |
| 0.789 | 0.163 | – | – | – | – | F16-110-3N | 100 | F16-110-3N-BULK | 1000 |
| 0.789 | 0.238 | – | – | – | – | F16-187-2N | 100 | F16-187-2N-BULK | 1000 |
| 0.787 | 0.196 | – | – | – | – | F16-187-3N | 100 | F16-187-3N-BULK | 1000 |
| 0.866 | 0.259 | – | – | – | – | F16-250-3N | 100 | F16-250-3N-BULK | 1000 |
| 0.944 | 0.259 | – | – | – | – | F12-250-3N | 50 | F12-250-3N-BULK | 500 |

MINITERMS

# Vinyl Insulated Miniterm Kit

## MTK, MTK-2

## FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Reusable.
- Crimping tool included with MTK-2

| 1 | 2 |
|---|---|
|  |  |

## RATINGS

c UL us LISTED
QUICK CONNECT TERMINALS
E345884
3DF8

c UL us LISTED
WIRE CONNECTOR
E155027
82GF

**Vinyl Insulated:** 300V, 75 °C.
**Nylon Insulated:** 600V, 105 °C.

| CAT. NO. | KIT CONTENTS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| | PART NO. | QTY. | PART NO. | QTY. | PART NO. | QTY. | |
| MTK | R22-6V | 40 | F22-250-3V | 40 | S22-6V | 40 | 12 |
| | R22-10V | 40 | F16-250-3V | 35 | S22-10V | 35 | |
| | R16-6V | 30 | F12-250-3V | 20 | S16-6V | 20 | |
| | R16-10V | 30 | B22-V | 35 | S16-10V | 35 | |
| | R12-8V | 20 | B16-V | 25 | S12-8V | 25 | |
| | R12-14V | 20 | B12-V | 15 | S12-14V | 15 | |
| MTK-2 | R22-6V | 10 | S22-8V | 10 | B22-V | 10 | 12 |
| | R22-8V | 10 | S22-10V | 10 | B16-V | 10 | |
| | R22-10V | 10 | S16-8V | 10 | B12-V | 10 | |
| | R16-6V | 10 | S16-10V | 10 | F22-250-3V | 10 | |
| | R16-8V | 10 | S12-10V | 5 | F16-250-3V | 10 | |
| | R16-10V | 10 | M22-250-3V | 10 | Crimping tool included | 1 | |
| | R12-10V | 5 | M16-250-3V | 10 | | | |





nsi INDUSTRIES

MINITERMS

# Vinyl Insulated Miniterm Kit

MTKL-100





## FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number ending in "N" is nylon insulated.
- Reusable.
- Crimping tool included.

## RATINGS

c UL us LISTED
QUICK CONNECT TERMINALS
E345884
3DF8

c UL us LISTED
WIRE CONNECTOR
E155027
82GF

| CAT. NO. | KIT CONTENTS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| | PART NO. | QTY. | PART NO. | QTY. | PART NO. | QTY. | |
| MTKL-100 | TL-5-1 | 1 | C12-N | 2 | M12-250-3V | 2 | 5 |
| | R12-10V | 5 | C16-N | 4 | M16-250-3V | 2 | |
| | R16-10V | 10 | C2-N | 5 | M22-250-3V | 2 | |
| | R22-10V | 10 | B12-V | 6 | F12-250-3V | 2 | |
| | S12-10V | 5 | B16-V | 10 | F16-250-3V | 2 | |
| | S16-10V | 10 | B22-V | 10 | F22-250-3V | 2 | |
| | S22-10V | 10 | | | | | |

MINITERMS

# Vinyl Insulated Miniterm Kit

MTK-175




## FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Reusable.

## RATINGS

c UL us LISTED
QUICK CONNECT TERMINALS
E345884
3DF8

c UL us LISTED
WIRE CONNECTOR
E155027
82GF

**Vinyl Insulated:** 300V, 75 °C.
**Nylon Insulated:** 600V, 105 °C.

| CAT. NO. | KIT CONTENTS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| | PART NO. | QTY. | PART NO. | QTY. | PART NO. | QTY. | |
| MTK-175 | B12-V | 4 | R16-6V | 11 | S16-10V | 11 | 5 |
| | B16-V | 11 | R16-8V | 11 | S22-8V | 11 | |
| | B22-V | 11 | R16-10V | 11 | S22-10V | 11 | |
| | R12-10V | 4 | R16-14V | 9 | M16-250-3V | 11 | |
| | R12-38V | 4 | S16-6V | 11 | F16-250-3V | 11 | |
| | R22-10V | 11 | S16-8V | 11 | F22-250-3V | 11 | |

# MINITERMS
# Vinyl Insulated Miniterm Kit
## MTK-2218, MTK-1614, MTK-1210



## FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number ending in "N" is nylon insulated.
- Reusable.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

## RATINGS

c UL us LISTED
QUICK CONNECT TERMINALS
E345884
3DF8

c UL us LISTED
WIRE CONNECTOR
E155027
82GF

| CAT. NO. | FIG. NO. | KIT CONTENTS | | | | | | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | | PART NO. | QTY. | PART NO. | QTY. | PART NO. | QTY. | |
| | 1 | R22-6V | 6 | S22-8V | 6 | IF22-250-3V | 2 | |
| **MTK-2218** | 1 | R22-8V | 6 | B22-V | 6 | M22-250-3V | 6 | 10 |
| | 1 | S22-6V | 6 | IM22-250-3V | 2 | F22-250-3V | 6 | |
| | 2 | R16-6V | 6 | F16-250-3V | 6 | B16-V | 6 | |
| **MTK-1614** | 2 | R16-8V | 6 | S16-6V | 6 | IM16-250-3N | 3 | 10 |
| | 2 | M16-250-3V | 6 | S16-8V | 6 | IF16-250-3N | 3 | |
| | 3 | R12-8V | 4 | F12-250-3V | 4 | B12-V | 4 | |
| **MTK-1210** | 3 | R12-14V | 2 | M12-250-3V | 4 | IM12-250-3N | 2 | 10 |
| | 3 | R12-38V | 2 | S12-8V | 4 | IF12-250-3N | 2 | |

MINITERMS

# Push-On & Compressor (With Wire) Terminal Kit

CTK-1, NSi 33-12

## FEATURES

**Push-On**

- Kit converts screw type terminals to push-on type.
- Contains four screws on terminal adapters.

**Compressor (With Wire)**

- Kit includes three color coded #10 AWG type AWM extra flexible lead wires (10" lengths).
- One end has a 0.250" by 0.032" female tab 12-10 quick disconnect, and the other is stripped at 5/16".

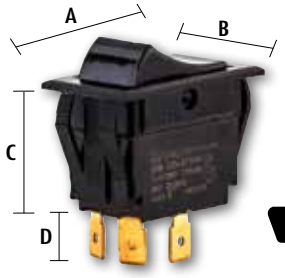
| 1 | 2 |
|---|---|
|  |  |

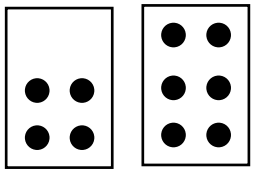
## RATINGS

c UL us

| CAT. NO. | FIG. NO. | KIT CONTENTS | STD. CTN. QTY. |
|---|---|---|---|
| **CTK-1** | 1 | 4 Screw type terminal adapters with 4 screws | 100 |
| **NSi 33-12** | 2 | 3 color coded wires and includes three 12-10 AWG shrink tube butt connectors | 1 |



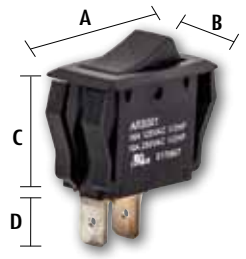


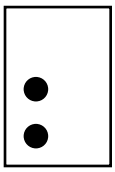



D.P.S.T D.P.D.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77010RQ** | ON-OFF | DPST | 20 | 10 | 1 1/2 @125,2 @ 250 | Non-Lighted | Black | Maintained | 0.250 Quikconnect | 5 |
| **77040RQ** | ON-ON | DPDT | 20 | 10 | 1 1/2 @125,2 @ 250 | Non-Lighted | Black | Maintained | 0.250 Quikconnect | 5 |
| **77060RQ** | ON-OFF-ON | DPDT | 20 | 10 | 1 1/2 @125,2 @ 250 | Non-Lighted | Black | Maintained | 0.250 Quikconnect | 5 |
| **77130RQ** | ON-OFF-ON | DPDT | 15 | 10 | 3/4 | Non-Lighted | Black | Momentary | 0.250 Quikconnect | 5 |
| **Dimensions (IN)** | A: 1.348 | B: 0.750 | C: 0.762 | D: 0.422 | | | | | | |



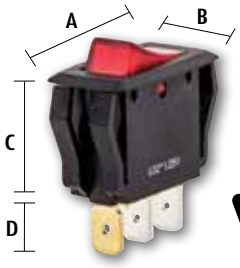



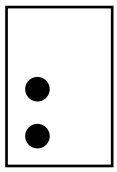
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77140RQ** | ON-OFF | SPST | 15 | 10 | – | Non-Lighted | Black | Maintained | 0.250 Quikconnect | 5 |
| **Dimensions (IN)** | A: 1.250 | B: 0.625 | C: 0.828 | D: 0.406 | | | | | | |



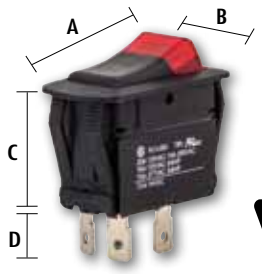


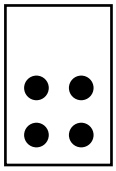



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77150RQ** | ON-OFF | SPST | 15 | 7.5 | – | – | Red | Maintained | 0.250 Quikconnect | 5 |
| **Dimensions (IN)** | A: 1.348 | B: 0.750 | C: 0.762 | D: 0.422 | | | | | | |



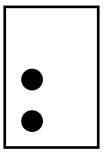
D.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77030RQ** | ON-OFF | DPST | 15 | 10 | 3/4 @ 250 | 125V Incand. | Red | – | Maintained | 0.250 Quikconnect | 5 |
| **77020RQ** | ON-OFF | DPST | 15 | 10 | 3/4 @ 250 | 125V Neon | Amber | – | Maintained | 0.250 Quikconnect | 5 |
| **Dimensions (IN)** | A: 0.426 | B: 1.088 | C: 0.709 | D: 0.345 | | | | | | |

# Rotary Switches & Miscellaneous

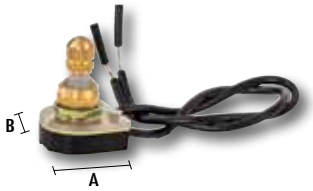


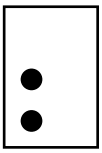



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77300RW** | ON-OFF | SPST | 3 | 1 | Non-Lighted | Rotary Canopy | – | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 0.718 | B: 0.600 | C: 0.265 | | | | | | | |



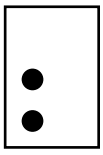



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **77340RW** | ON-OFF | SPST | 6 | 3 | Non-Lighted | Rotary Canopy | – | Maintained | Wire Leads | 5 |
| **77320RW** | OFF-ON-ON-ON | SPST | 3 | 1 | Non-Lighted | Rotary Canopy | – | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 1.000 | B: 0.844 | | | | | | | | |



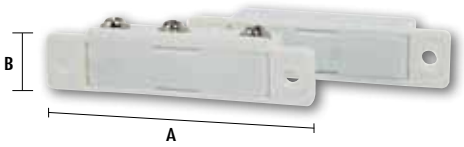



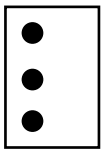
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **79100MS** | ON-OFF | SPST | 6 | 3 | – | – | – | Feed Through Switch | Screws | 5 |
| **Dimensions (IN)** | A: 0.844 | B: 0.594 | C: 1.375 | | | | | | | |





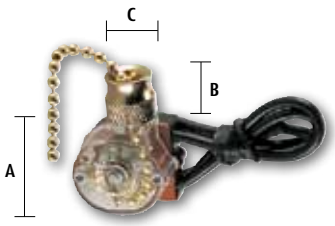



S.P.D.T

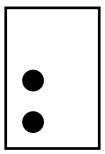
**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | VOLTAGE | LAMP COLOR | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **79200MS** | N.C. & N.O. | SPDT | 5 | – | – | – | – | Magnetic Feed Switch | Screws | 5 |

**Dimensions (IN)** A: 2.500 B: 0.531





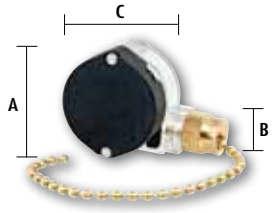



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **75101CW** | ON-OFF | SPST | 6 | 3 | – | Chain W/Cord | Brass | – | Wire Leads | 5 |
| **75102CW** | ON-OFF | SPST | 6 | 3 | – | Chain W/Cord | Nickel | – | Wire Leads | 5 |

**Dimensions (IN)** A: 1.250 B: 0.781 C: 0.594

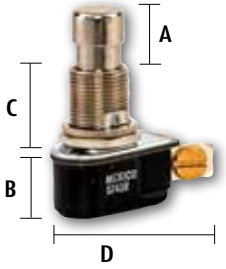


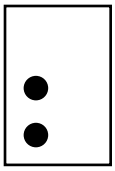



| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **75110CW** | Way/2 Circuit | SP3T | 6 | 3 | – | Chain W/Cord | Brass | – | Wire Leads | 5 |
| **75111CQ** | OFF-ON-ON-ON | SP3T | 6 | 3 | – | Chain W/Cord | Brass | – | Push In | 5 |

**Dimensions (IN)** A: 1.250 B: 1.125 C: 0.742

# Pushbutton Switches



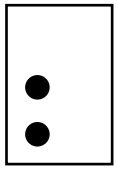



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76050PS** | PUSH-ON, PUSH-OFF | SPST | 6* | 3* | – | Pushbutton | Brass/Nickel | Maintained | Screws | 5 |
| **76040PW** | PUSH ON, PUSH OFF | SPST | 6 | 3 | 1/3 @125 | Pushbutton | Brass/Nickel | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 0.437 | B: 0.562 | C: 0.542 | D: 1.183 | | | | | | |



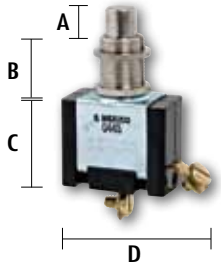



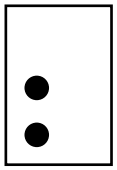
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76010PW** | PUSH ON, PUSH OFF | SPST | 10 | 5 | 1/4 @125 | Pushbutton | Nylon | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 1.003 | B: 0.612 | C: 0.550 | D: 0.993 | | | | | | |





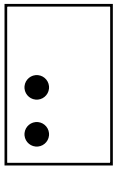



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76060PS** | PUSH ON, PUSH OFF | SPST | 15 | 10 | – | Pushbutton | Brass/Nickel | Maintained | Screws | 5 |
| **Dimensions (IN)** | A: 0.283 | B: 0.562 | C: 0.982 | D: 1.125 | | | | | | |

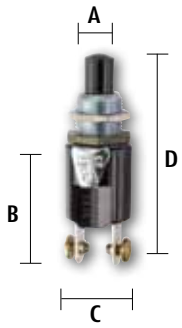


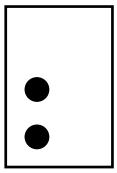



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76055PS** | ON-OFF | SPST | 6 | 3 | – | Pushbutton | Brass | Maintained | Wire Leads | 1 |
| **76056PS** | ON-OFF | SPST | 6 | 3 | – | Pushbutton | Nickel | Maintained | Wire Leads | 1 |
| **76090PW** | ON-OFF | SPST | 6 | 3 | – | Push Canopy | Brass | Maintained | Wire Leads | 5 |
| **76100PW** | ON-OFF | SPST | 6 | 3 | – | Push Canopy | Bickel | Maintained | Wire Leads | 5 |
| **Dimensions (IN)** | A: 0.968 | B: 0.313 | C:0.858 | | | | | | | |



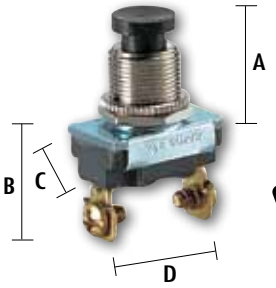



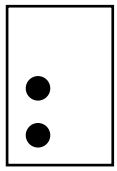
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76020PS** | OFF-ON | SPST N.O. | 3/4 | 1/4 | – | Pushbutton | Nylon | Momentary | Screws | 5 |
| **76030PS** | ON-OFF | SPST N.C. | 3/4 | 1/4 | – | Pushbutton | Nylon | Momentary | Screws | 5 |
| **Dimensions (IN)** | A: 0.460 | B: 1.070 | C: 0.650 | D: 1.950 | | | | | | |

# Pushbutton Switches

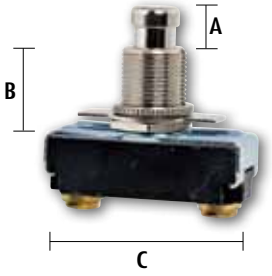


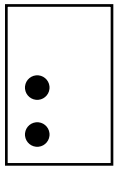



S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76065PS** | OFF-ON | SPST N.O. | 3 | – | – | Pushbutton | Plastic | Momentary | Screws | 5 |
| **Dimensions (IN)** | A: .689 | B: 1.406 | C: .563 | D: .875 | | | | | | |



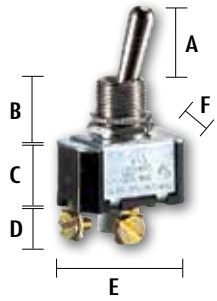
S.P.S.T

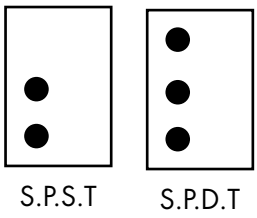
**Terminal Positions**

| CAT. NO. | CIRCUT FUNC. | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|---|
| **76070PS** | OFF-ON | SPST N.O. | 15 | 10 | – | Pushbutton | Brass/Nickel | Momentary | Screws | 5 |
| **76080PS** | ON-OFF | SPST N.C. | 15 | 10 | – | Pushbutton | Brass/Nickel | Momentary | Screws | 5 |
| **Dimensions (IN)** | A: .576 | B: .562 | C: 1.382 | | | | | | | |

# Toggle Switches: Maintained Contact Single Pole



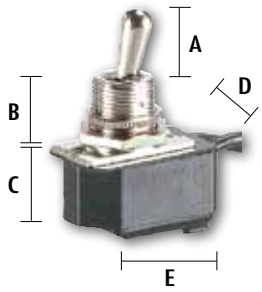


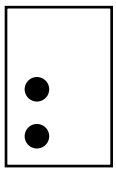




**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78110TS** | OFF-ON | SPST | 6 | 3 | – | Bat | Brass/Nickel | Screws | 5 |
| **78120TQ** | OFF-ON | SPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |
| **78210TS** | OFF-ON | SPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78200TS** | ON-ON | SPDT | 20 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78160TS** | ON-OFF-ON | SPDT | 20 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78070TQ** | ON-OFF-ON | SPDT | 20 | 10 | 3/4 | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |

**Dimensions (IN)** A: .687 B: .465 C: .670 D: .348 E: 1.134 F: .634 THREAD: 15/32-32UNS-2A KEYWAY: .072 X .038 DP



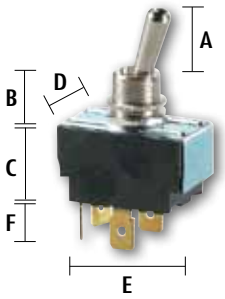

**Terminal Positions**

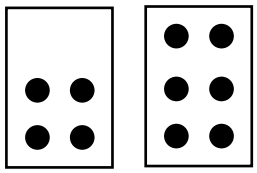
| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78150TW** | ON-OFF | SPST | 10* | 4* | – | Bat | Brass/Nickel | Wire Leads | 5 |

*Amperage and voltage are also valid for D.C. Rating

**Dimensions (IN)** A: .500 B: .469 C: .685 D: 1.093 E: 1.856 THREAD: 15/32-32 STANDARD 6" WIRE LEADS

# Toggle Switches: Maintained Contact Single & Double Pole

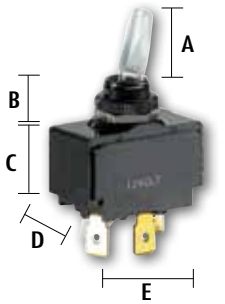


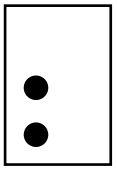




**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78220TS** | ON-OFF | DPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78130TQ** | ON-OFF | DPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |
| **78090TQ** | ON-ON | DPDT | 15 | 10 | – | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |
| **78270TS** | ON-ON | DPDT | 20 | 10 | 1½@125.2@250 | Bat | Brass/Nickel | Screws | 5 |
| **78230TS** | ON-OFF-ON | DPDT | 10 | 20 | 1 1/2 | Bat | Brass/Nickel | Screws | 5 |
| **78240TS** | OFF-ON | DPST | 15 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78250TS** | ON-OFF-ON | DPDT | 15 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |
| **78260TS** | ON-OFF-ON | DPDT | 15 | 10 | 3/4 | Bat | Brass/Nickel | Screws | 5 |

**Dimensions (IN)** A: 0.687 B: 0.465 C: 0.778 D: 0.750 E: 1.308 F: 0.422 THREAD: 15/32-32UNS-2A KEYWAY: 0.072 X 0.038



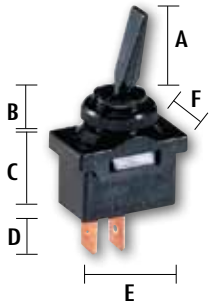

**Terminal Positions**

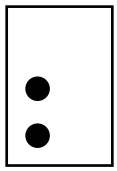
| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78065TS** | ON-OFF | SPST | 6 | 3 | – | Bat | Nickel | Screws | 5 |
| **78040TQ** | ON-OFF | SPST | 15* | 10* | 3/4 | Flat | Poly. (Red)** | 0.250 Quikconnect | 5 |

*Amperage and voltage are also valid for D.C. Rating /**Lighted toggle /Poly. = Polycarbonate

**Dimensions (IN)** A: 0.715 B: 0.379 C: 0.865 D: 0.750 E: 0.422 THREAD: 15/32-32UNS-2A KEYWAY: 0.072 X 0.038 DP





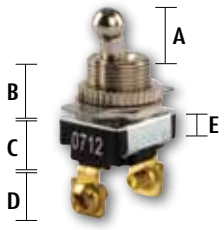



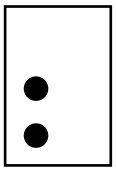
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78280TS** | ON-OFF | SPST | 16* | 8* | 1 | Bat | Brass/Nickel | Screws | 5 |
| **78015TS** | ON-OFF | SPST | 20 | 10 | – | Flat | Nylon | Screws | 5 |

**Dimensions (IN)** A: 0.687 B: 0.280 C: 0.687 D: 0.375 E: 1.000 F: 0.588 KEYWAY: 0.072 X 0.038



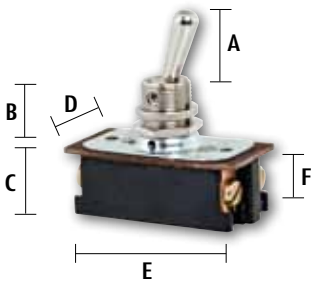



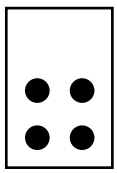
S.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78050TQ** | ON-OFF | SPST | 20 | 10 | 3/4 | Bat | Brass/Nickel | 0.250 Quikconnect | 5 |
| **78130TS** | ON-OFF | SPST | 6 | 3 | – | Ball | Brass/Nickel | Screws | 5 |
| **78150TS** | ON-OFF | SPST | 20 | 10 | 3/4 | Spade | Brass/Nickel | Screws | 5 |

**Dimensions (IN)** A: 0.687 B: 0.465 C: 0.585 D: 0.522 E: 0.312 THREAD: 15/32-32UNS-2A KEYWAY: 0.072 X 0.038



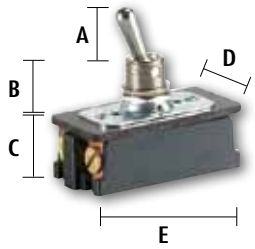



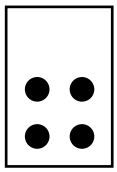
D.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78290TS** | ON-OFF | DPST | 16* | 8* | 1 | Bat | Brass/Nickel | Screws | 5 |

**Dimensions (IN)** A: 0.687 B: 0.465 C: 0.765 D: 0.836 E: 1.750 F: 1.764 THREAD: 15/32-32UNS-2A KEYWAY: 0.072 X 0.038

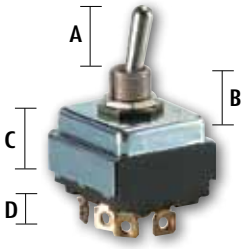


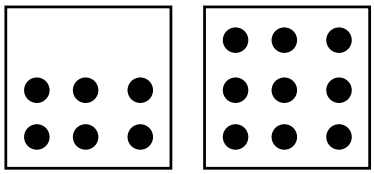



D.P.S.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78300TS** | ON-OFF | DPST | 20* | 10* | 1 1/2 | Bat | Brass/Nickel | Screws | 5 |
| **Dimensions (IN)** | A: 0.687 | B: 0.465 | C: 0.895 | D: 1.000 | E: 2.093 | | | | |



3 P.S.T 3 P.D.T

**Terminal Positions**

| CAT. NO. | CIRCUT FUNCTIONS | POLES & THROWS | RATINGS AMPS 125VAC | RATINGS AMPS 250VAC | RATINGS H.P 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **78310TS** | ON-OFF | 3PST | 15 | 10 | 3/4 @ 250 | Bat | Brass/Nickel | Screws | 5 |
| **78315TS** | ON-OFF-ON | 3PDT | 15 | 10 | 3/4 @ 250 | Bat | Brass/Nickel | Screws | 5 |
| **Dimensions (IN)** | A: 0.688 | B: 0.469 | C: 0.965 | D: 0.300 | THREAD: 15/32 | | | | |



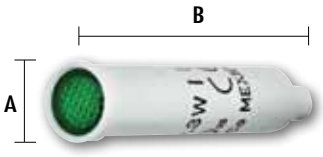

| CAT. NO. | CIRCUT FUNCTIONS | STD. CTN. QTY. |
|---|---|---|
| **79300MS** | Toggle Switch Boots | 2 |
| **79300MSR** | Toggle Switch Boots | 2 |
| **Dimensions (IN)** | A: 0.950 B: 0.812 | |

# Round Indicator Lights
## WITH NON-REPLACEABLE LAMPS



## FEATURES

- High quality indicator lights made of nylon with polycarbonate lens material and neon lamps.
- 125-volt rated.
- Connection with 6 inch wire leads.
- Available in many other styles and finishes.
- Also available with incandescent lamps, contact NSi for price and delivery.




| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **79710LW** | 0.312 | 0.030 Min. | Flush | Green | Diamond | White | Press | 0.312 | 5 |
| **79720LW** | 0.312 | 0.030 Min. | Flush | Red | Diamond | White | Press | 0.312 | 5 |

**Dimensions (IN)** A: 0.130 B: 1.430 MOUNTING HOLE: 0.312 PANEL THICKNESS: 0.030 MIN.



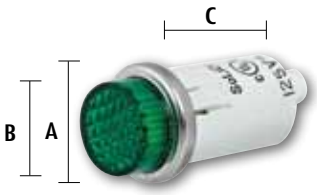

| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **79740LW** | 0.500 | 0.030 - .093 | 0.09 Cyl | Green | Diamond | Stainless | Press | 0.500 | 5 |
| **79750LW** | 0.500 | 0.030 - .093 | 0.09 Cyl | Red | Diamond | Chrome | Press | 0.500 | 5 |
| **79755LW** | 0.500 | 0.030 - .093 | 0.09 Cyl | Amber | Diamond | Stainless | Press | 0.500 | 5 |

**Dimensions (IN)** A: 0.210 B: 0.100 C: 0.910 MOUNTING HOLE: 0.312 PANEL THICKNESS: 0.030 MIN.

# Round & Snap-In Rectangular Indicator Lights

## FEATURES

- High quality indicator lights made of nylon with polycarbonate lens material and neon lamps.
- 125-volt rated.
- Connection with 6 inch wire leads (Round Indicator lights).
- Available in many other styles and finishes.
- Also available with incandescent lamps.



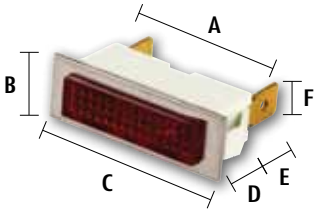

| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **79770LW** | 0.500 | 0.030 - 0.093 | 0.25 Cyl | Green | Diamond | Stainless | Press | 0.500 | 5 |
| **79780LW** | 0.500 | 0.030 - 0.093 | 0.25 Cyl | Red | Diamond | Stainless | Press | 0.500 | 5 |
| **79785LW** | 0.500 | 0.030 - 0.093 | 0.25 Cyl | Amber | Diamond | Stainless | Press | 0.500 | 5 |

**Dimensions (IN)** A: 0.210 B: 0.100 C: 0.910 MOUNTING HOLE: 0.500 PANEL THICKNESS: 0.030 - 0.093




| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **79800LW** | 0.500 | 0.040 - 0.110 | Semi-Dome | Red | Rings | None | Snap In | 0.500 | 5 |

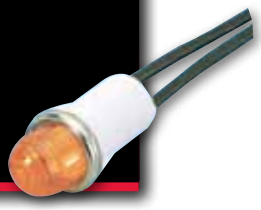
**Dimensions (IN)** A: 1.130 MOUNTING HOLE: 0.500 PANEL THICKNESS: 0.040 - 0.110




| CAT. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS COLOR | LENS TYPE | BEZEL COVER | CONN. TYPE | LAMP COLOR |
|---|---|---|---|---|---|---|---|
| **79505LQ** | 0.375 x 1.28 | 0.03 - .10 | Red | Diamond | Stainless | 0.250 Quikconnect | 5 |

**Dimensions (IN)** A: 1.080 B: 0.290 C: 1.380 D: 0.460 E: 0.500 F: 0.370 G: 0.120

# Indicator LightS & Emergency Stop Buttons





## FEATURES

- Terminals are tin-plated brass.
- Wire leads are 22 AWG, 4.4-4.8" long, 1/2" stripped.
- Mounting will snap-fit into 0.500-0.505" diameter hole in 0.020-0.100" thick panels.
- Dome style.

| CAT. NO. | COLOR | LENS MATERIAL | VOLTAGE | BULB TYPE | BAG QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **79900LW** | Red | Polycarbonate | 28V | Incandescent | 1 | 12 |
| **79901LW** | Green | Polycarbonate | 28V | Incandescent | 1 | 12 |
| **79902LW** | Amber | Polycarbonate | 28V | Incandescent | 1 | 12 |
| **79910LW** | Red | Nylon | 105-125VAC | Neon | 1 | 12 |
| **79911LW** | Green | Polycarbonate | 105-125VAC | Neon | 1 | 12 |
| **79912LW** | Amber | Nylon | 105-125VAC | Neon | 1 | 12 |
| **79920LW** | Red | Polycarbonate | 208-250 VAC | Neon | 1 | 12 |
| **79921LW** | Green | Polycarbonate | 208-250 VAC | Neon | 1 | 12 |
| **79922LW** | Amber | Polycarbonate | 208-250 VAC | Neon | 1 | 12 |

## EMERGENCY STOP BUTTON



| CAT. NO. | NAED NO. | LENS COLOR | STD. CTN. QTY. |
|---|---|---|---|
| **ESB2-INC-R** | 32132 | Red | 6 |
| **ESB2-INOINC-R** | 32136 | Red | 6 |


CABLE TIES
STANDARD TYPE




# WIRE MANAGEMENT

EASY-WRAP™

# Premium Electrical Tape

EWP SERIES




## EASY-WRAP™ PREMIUM 070

- 7 mil., all-weather, premium grade, pressure sensitive vinyl electrical tape.
- Cold and sunlight resistant.
- Flame retardant.
- Suitable for use in all kinds of electrical and mechanical applications.
- Provides exceptional flexibility and performance over a wide range of temperatures.
- Available in standard black and nine assorted colors for easy identification or color coding.

**TEMPERATURE RATING:**
Suitable for use at no more than 600V and not more than 80 °C (176 °F).
CSA temperature range: -18 °C to 105 °C (-0.4 °F to 221 °F).

| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWP 7066** | Black | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-1** | Brown | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-2** | Red | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-3** | Orange | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-4** | Yellow | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-5** | Green | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-6** | Blue | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-7** | Purple | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-8** | Grey | 66 | 0.75 | 0.007 | 10 |
| **EWP 7066-9** | White | 66 | 0.75 | 0.007 | 10 |

## EASY-WRAP™ PREMIUM 085

- 8.5 mil., all-weather, premium grade, pressure sensitive vinyl electrical tape.
- Cold and sunlight resistant.
- Flame retardant.
- Suitable for use in all kinds of electrical and mechanical applications.
- Provides exceptional flexibility and performance over a wide range of temperatures.
- Available in standard black only.

**TEMPERATURE RATING:**
Suitable for use at no more than 600V and not more than 80 °C (176 °F).
CSA temperature range: -18 °C to 105 °C (-0.4 °F to 221 °F).
Meets MIL-I-24391C, HH-I-595C and ASTM D-3005.



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWP 8566** | Black | 66 | 0.75 | 0.0085 | 10 |

EASY-WRAP™

# General Purpose & All-Weather Corrosion Tape

EWG, EWPP SERIES






## EASY-WRAP™ GENERAL PURPOSE

- 7 mil., economy-grade, sunlight resistant, pressure sensitive vinyl electrical tape.
- Suitable for use in all kinds of electrical and mechanical applications such as cable insulation, wire bundling, and reinforcing.
- Extremely flexible with good adhesion and conformability.
- Available in standard black and nine assorted colors for easy identification or color coding.

**TEMPERATURE RATING:**
Suitable for use at no more than 600V and not more than 80 °C (176 °F).
CSA temperature range: -7 °C to 80 °C (19.4 °F to 176 °F).



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWG 7060** | Black | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-1** | Brown | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-2** | Red | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-3** | Orange | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-4** | Yellow | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-5** | Green | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-6** | Blue | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-7** | Purple | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-8** | Grey | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-9** | White | 60 | 0.75 | 0.007 | 10 |
| **EWG 7060-10** | One roll of each of the above 10 colors | | | | 1 pkg |

## ALL-WEATHER CORROSION (PIPE WRAP)

- Heavy duty PVC tape, manufactured with a high quality adhesive and are designed to protect pipe surfaces from corrosion, abrasion and electrolytic action.
- Indoors or outdoors, above or below ground to protect pipes, conduits, joints and fittings.
- Pliable and easy to apply.
- Outstanding protection against water, sunlight, acids, alkalis, corrosive salts and sewage.
- Excellent UV resistant.

**TEMPERATURE RATING:**
Temperature rated to 80 °C (176 °F).



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWPP 102100P** | Black | 100 | 2 | 0.01 | 1 |
| **EWPP 102100** | Black | 100 | 2 | 0.01 | 1 |
| **EWPP 104100** | Black | 100 | 4 | 0.01 | 1 |
| **EWPP 202100** | Black | 100 | 2 | 0.02 | 1 |
| **EWPP 202100P** | Black | 100 | 2 | 0.02 | 1 |

*Suffix "P" denotes printed tapes.

EASY-WRAP™

# Rubber Splicing, Harness Wrap, & Duct Tape

EWRT, EWWH, EWDT SERIES



## EASY-WRAP™ RUBBER SPLICING

- High quality unvulcanized rubber that will bond quickly to itself to form a solid mass of watertight protection.
- Self-fusing with liner.
- Can be used as primary insulation for electrical wires and cable splices up to 600 volts.
- Conforms to irregular shapes and is flexible to withstand expansion and contraction.
- Highly resistant to salt water, steam, oils, detergents and other chemicals.

**TEMPERATURE RATING:**
Dielectric strength 490 Volts per mil.
Meets HH-I-553C Grade B and ASTM D-119; UL 510 listing #2C58.

| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWRT 3022-.75** | Black | 22 | 0.750 | 0.030 | 1 |
| **EWRT 3022-1.5** | Black | 22 | 1.500 | 0.030 | 1 |
| **EWRT 3022-2** | Black | 22 | 2.000 | 0.030 | 1 |



## EASY-WRAP™ WIRE HARNESS WRAP

- A 5 mil PVC film, coated with a rubber adhesive for high elongation and exceptional adherence.
- Excellent conformability to the wiring harness. Matte finish.

| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWWH 5060** | Black | 60 | 0.750 | 0.005 | 1 |



## DUCT TAPE

- Superior cloth duct tapes, designed to meet all industry demands and applications.
- Uniform MD/CD tear properties.

| CAT. NO. | COLOR | TENSILE (IN/LBS.) | LENGTH (YD.) | WIDTH (IN.) | THICKNESS (mm.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **EWDT-8** | Silver | 18 | 55 | 2.000 | 18 | 1 |

EASY-WRAP™

# Friction, Electrical Filler & Silicone Rubber Tape

EWFT, EWEF, EWSR SERIES



## FRICTION TAPE

- Cloth construction offers strong mechanical protection against abrasion and penetration of cable, splices and wire.
- Coated on both sides with a rubber adhesive for adhesion to all types of surfaces.



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWFT 157560** | Black | 60 | 0.750 | 0.015 | 1 |

## EASY-WRAP™ ELECTRICAL FILLER TAPE

- Butyl based insulation is 1/8" thick for build-up.
- Easy to mold around irregular shapes.
- Self-amalgamates into solid flexible mass.
- Will not corrode copper or aluminum and highly resistant to moisture.
- Rated for applications up to 5 KV.



| CAT. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **EWEF 12155** | Black | 5 | 1.500 | 0.125 | 1 |

## SILICONE RUBBER TAPE - 69 KV

- Self-bonding silicone rubber tape adheres to itself when wrapped under tension and fuses to form a homogeneous mass within 24 hours at room temperature or four hours at 176.6 °C (350 °F).
- No adhesive required; tape leaves no residue.
- Excellent dialectric properties.
- Waterproof and chemical resistant.
- Triangular configuration.

**APPLICATIONS:**
For use on applications up to 69 KV.
Meets MIL-A-A-59163.

**TEMPERATURE RATING:**
-53.8 °C to 204.4 (-65 °F to 400 °F).



| CAT. NO. | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **EWSR 121030** | 30 | 1.000 | 0.120 | 1 |

EASY-WRAP™

# High Voltage, Glass Cloth & Rubber Mastic Tape

EWHR, EWGC, EWMT SERIES



## HIGH VOLTAGE RUBBER TAPE - 69 KV WITH WHITE LINER

- Self bonding, highly conformable 30 mil EPR rubber with liner.
- Use as primary electrical insulation for a pplications through 69 KV.
- Flame Retardant, IEEE Standard 17-1974 ANSI.

**TEMPERATURE RATING:**
Rated for 90 °C (194 °F) continuous operating temperature. Intermittent to 130 °C (266 °F). Will not crack at -40 °C (-40 °F).

| CAT. NO. | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **EWHR 307530-L** | 30 | 0.750 | 0.030 | 1 |
| **EWHR 3010030-L** | 30 | 1.000 | 0.030 | 1 |
| **EWHR 3015030-L** | 30 | 1.500 | 0.030 | 1 |
| **EWHR 3020030-L** | 30 | 2.000 | 0.030 | 1 |

## GLASS CLOTH RUBBER ADHESIVE

- Provides heat stabilized insulation for applications where resistance to high temperature and high mechanical strength are required, such as motor leads, hot spots, switches and controls.

**TEMPERATURE RATING:**
Insulation Class: 130 °C (266 °F).
Dialectric strength: 3,300 Volts.
MIL-I-15126F (type GFT).



| CAT. NO. | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **EWGC75066** | 66 | 0.500 | 0.007 | 1 |
| **EWGC77566** | 66 | 0.750 | 0.007 | 1 |

## LINED RUBBER MASTIC TAPE

- A self-fusing conformable electrical insulating and sealing tape.
- EPR rubber with a strong stable mastic adhesive for busbar and splice connections.

**TEMPERATURE RATING:**
130 °C (266 °F).

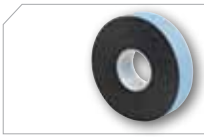


| CAT. NO. | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **EWMT 1252524** | 2 | 2.500 | 0.125 | 1 |

## SLYDER™ LUBRICANT

# Slyder™ Wire Lubricant





## FEATURES

- Superior gel lubricant that reduces surface tension on cable to the lowest level.
- Excellent adherence to cable ensures maximum performance and easier pulls.
- Maintains its lubricity even after drying and has excellent re-wetting characteristics.
- Non-toxic and non-flame propagating and can be used as part of a fire retardant installation. Does not contain any aromatic or petroleum derivative.

| CAT. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|
| **SWL-1Q** | 1 Quart | 12 |
| **SWL-1G** | 1 Gallon | 4 |
| **SWL-5G** | 5 Gallons | 1 |

CABLE TIES

# Standard (Natural) Cable Ties



## FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| MAX. WIRE/ CABLE SIZE (L) | CAT. NO. |
|---|---|
| 4" | 418 |
| | 418X |
| | 450 |
| 5" | 518 |
| | 518X |
| | 540 |
| | 540X |
| 6" | 650 |
| | 650X |
| 7" | 750 |
| | 750X |
| 8" | 818 |
| | 818X |
| | 840 |
| | 840X |
| | 850 |
| | 850X |
| | 875 |
| | 8120 |
| | 8120X |
| 11" | 1140 |
| | 1140X |
| | 1150 |
| | 1150X |
| | 1175 |
| | 11120 |
| 14" | 1450 |
| | 1450X |
| | 1475 |
| | 14120 |
| 15" | 15250 |
| 18" | 1850 |
| | 18175 |
| | 18250 |
| 22" | 22250 |
| 24" | 24175 |
| 28" | 28250 |
| 30" | 30175 |
| 36" | 36175 |
| 48" | 48175 |
| 60" | 60175 |





| MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|
| 0.800 | 18 Lbs.. | 4.000 | 0.095 | 100 | 5,000 |
| 0.800 | 18 Lbs... | 4.000 | 0.095 | 1000 | 5,000 |
| 0.800 | 50 Lbs.. | 4.000 | 0.095 | 100 | 5,000 |
| 1.430 | 18 Lbs.. | 6.000 | 0.095 | 100 | 5,000 |
| 1.375 | 18 Lbs.. | 5.500 | 0.100 | 1000 | 5,000 |
| 1.300 | 40 Lbs.. | 5.500 | 0.140 | 100 | 3,000 |
| 1.300 | 40 Lbs.. | 5.000 | 0.140 | 1000 | 3,000 |
| 1.320 | 50 Lbs.. | 6.250 | 0.181 | 100 | 3,000 |
| 1.320 | 50 Lbs.. | 6.300 | 0.181 | 1000 | 3,000 |
| 1.810 | 50 Lbs.. | 7.500 | 0.189 | 100 | 3,000 |
| 1.810 | 50 Lbs.. | 7.500 | 0.189 | 1000 | 3,000 |
| 2.060 | 18 Lbs.. | 8.000 | 0.095 | 100 | 3,000 |
| 2.060 | 18 Lbs.. | 8.000 | 0.095 | 1000 | 3,000 |
| 2.060 | 40 Lbs.. | 8.000 | 0.140 | 100 | 3,000 |
| 2.060 | 40 Lbs.. | 8.000 | 0.140 | 1000 | 3,000 |
| 1.940 | 50 Lbs.. | 8.000 | 0.189 | 100 | 3,000 |
| 1.940 | 50 Lbs.. | 8.000 | 0.189 | 1000 | 3,000 |
| 1.940 | 75 Lbs.. | 8.000 | 0.189 | 100 | 3000 |
| 2.000 | 120 Lbs.. | 8.000 | 0.300 | 100 | 2,000 |
| 2.000 | 120 Lbs.. | 8.000 | 0.300 | 1000 | 2,000 |
| 3.300 | 40 Lbs.. | 11.500 | 0.140 | 100 | 2,000 |
| 3.300 | 40 Lbs.. | 11.500 | 0.140 | 1000 | 2,000 |
| 2.940 | 50 Lbs.. | 11.100 | 0.189 | 100 | 2,000 |
| 2.940 | 50 Lbs.. | 11.100 | 0.189 | 1000 | 2,000 |
| 2.940 | 75 Lbs.. | 11.100 | 0.189 | 100 | 2,000 |
| 3.000 | 120 Lbs.. | 11.500 | 0.300 | 100 | 2,000 |
| 4.070 | 50 Lbs.. | 14.100 | 0.189 | 100 | 3,000 |
| 4.070 | 50 Lbs.. | 14.100 | 0.189 | 1000 | 3,000 |
| 4.070 | 75 Lbs.. | 14.100 | 0.189 | 100 | 3,000 |
| 4.070 | 120 Lbs.. | 14.250 | 0.300 | 100 | 2,000 |
| 4.375 | 250 Lbs.. | 15.000 | 0.500 | 50 | 500 |
| 5.070 | 50 Lbs.. | 18.000 | 0.189 | 100 | 2,000 |
| 5.250 | 175 Lbs.. | 17.750 | 0.315 | 50 | 500 |
| 5.500 | 250 Lbs.. | 18.870 | 0.500 | 50 | 500 |
| 6.875 | 250 Lbs. | 22.87 | 0.500 | 50 | 500 |
| 7.140 | 175 Lbs.. | 24.000 | 0.345 | 50 | 500 |
| 8.875 | 250 Lbs. | 28.75 | 0.500 | 50 | 500 |
| 9.250 | 175 Lbs.. | 30.000 | 0.354 | 50 | 500 |
| 11.000 | 175 Lbs.. | 36.000 | 0.350 | 50 | 500 |
| 15.000 | 175 Lbs.. | 48.000 | 0.354 | 50 | 500 |
| 18.250 | 175 Lbs.. | 59.000 | 0.354 | 50 | 500 |

CABLE TIES

# UV & Weather Resistant (Black) Cable Ties



## FEATURES

- Made from weather resistant Nylon 66 for applications exposed to outside elements.
- UV resistant.
- Black only.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| MAX. WIRE/ CABLE SIZE (L) | CAT. NO. |
|---|---|
| 4" | 4180 |
| | 4180X |
| | 4500 |
| | 4500X |
| 5" | 5180 |
| | 5180X |
| | 5400 |
| | 5400X |
| 6" | 6500 |
| 7" | 7500 |
| | 7500X |
| 8" | 8180 |
| | 8180X |
| | 8400 |
| | 8400X |
| | 8500 |
| | 8500X |
| | 8750 |
| | 81200 |
| 11" | 11400 |
| | 11500 |
| | 11500X |
| | 11750 |
| | 111200 |
| 14" | 14500 |
| | 14500X |
| | 14750 |
| | 141200 |
| 15" | 152500 |
| 18" | 18500 |
| | 181750 |
| | 182500 |
| 22" | 222500 |
| 24" | 241750 |
| 28" | 282500 |
| 30" | 301750 |
| 34' | 342500 |
| 36" | 361750 |
| 40" | 402500 |
| 48" | 481750 |
| 60" | 601750 |





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| MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|
| 0.800 | 18 Lbs | 4.000 | 0.095 | 100 | 5,000 |
| 0.800 | 18 Lbs | 4.000 | 0.095 | 1000 | 5,000 |
| 1.430 | 50 Lbs | 6.000 | 0.095 | 100 | 5,000 |
| 1.375 | 50 Lbs | 5.500 | 0.100 | 1000 | 5,000 |
| 1.300 | 18 Lbs | 5.500 | 0.140 | 100 | 3,000 |
| 1.300 | 18 Lbs | 5.000 | 0.140 | 1000 | 3,000 |
| 1.320 | 40 Lbs | 6.250 | 0.181 | 100 | 3,000 |
| 1.320 | 40 Lbs | 6.300 | 0.181 | 1000 | 3,000 |
| 1.810 | 40 Lbs | 7.500 | 0.189 | 100 | 3,000 |
| 2.060 | 50 Lbs | 8.000 | 0.095 | 100 | 3,000 |
| 2.060 | 50 Lbs | 8.000 | 0.095 | 1000 | 3,000 |
| 2.060 | 18 Lbs | 8.000 | 0.140 | 100 | 3,000 |
| 2.060 | 18 Lbs | 8.000 | 0.140 | 1000 | 3,000 |
| 1.940 | 40 Lbs | 8.000 | 0.189 | 100 | 3,000 |
| 1.940 | 40 Lbs | 8.000 | 0.189 | 1000 | 3,000 |
| 2.000 | 50 Lbs | 8.000 | 0.300 | 100 | 2,000 |
| 2.000 | 50 Lbs | 8.000 | 0.300 | 1000 | 2,000 |
| 2.000 | 75 Lbs | 8.000 | 0.300 | 100 | 2,000 |
| 3.300 | 120 Lbs | 11.500 | 0.140 | 100 | 2,000 |
| 2.940 | 40 Lbs | 11.100 | 0.189 | 100 | 2,000 |
| 3.125 | 50 Lbs | 11.500 | 0.187 | 100 | 2,000 |
| 3.125 | 50 Lbs | 11.500 | 0.187 | 1000 | 2,000 |
| 3.000 | 75 Lbs | 11.500 | 0.189 | 100 | 2,000 |
| 3.000 | 120 Lbs | 11.500 | 0.300 | 100 | 2,000 |
| 4.070 | 50 Lbs | 14.100 | 0.189 | 100 | 3,000 |
| 4.070 | 50 Lbs | 14.100 | 0.189 | 1000 | 3,000 |
| 4.070 | 75 Lbs | 14.100 | 0.189 | 100 | 3,000 |
| 4.070 | 120 Lbs | 14.250 | 0.300 | 100 | 2,000 |
| 4.375 | 250 Lbs | 15.000 | 0.500 | 50 | 500 |
| 5.070 | 50 Lbs | 18.000 | 0.189 | 100 | 2,000 |
| 5.250 | 175 Lbs | 17.750 | 0.315 | 50 | 500 |
| 5.500 | 250 Lbs | 18.870 | 0.500 | 50 | 500 |
| 6.875 | 250 Lbs. | 22.87 | 0.500 | 50 | 500 |
| 7.140 | 175 Lbs | 24.000 | 0.345 | 50 | 500 |
| 8.875 | 250 Lbs. | 28.75 | 0.500 | 50 | 500 |
| 9.250 | 175 Lbs | 30.000 | 0.354 | 50 | 500 |
| 10.5 | 250 Lbs. | 34.68 | 0.500 | 50 | 500 |
| 11.000 | 175 Lbs | 36.000 | 0.350 | 50 | 500 |
| 12.5 | 250 Lbs. | 40.5 | 0.500 | 50 | 500 |
| 15.000 | 175 Lbs | 48.000 | 0.354 | 50 | 500 |
| 18.250 | 175 Lbs | 59.000 | 0.354 | 50 | 500 |

CABLE TIES

# Air Handling and Push Mount Cable Ties

-P, -PM SERIES



## AIR HANDLING CABLE TIES

- Air handling ties are approved for indoor use in air handling spaces other than plenums and ducts per NFPA-1993.
- Meets UL 1565 test standards. MIL spec. 3367-1, -7, -2. NEC Sec. 300-22 (C) & (D), Rules 12-010 (3), (4), and (5) and 12-020 of the Canadian Electrical code, Part 1.
- Made of high strength nylon, these ties are self-extinguishing and resist abrasions and chemicals such as oil, greases, solvents, dilute acids and alkalies.
- Burgundy in color for easy identification.

**TEMPERATURE RATING:**
Maximum operating temperature 85 °C (185 °F).

| MAX. WIRE/ CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 7" | **750-P** | 1.750 | 50 Lbs. | 7.500 | 0.180 | 100 | 5,000 |
| 11" | **1150-P** | 3.000 | 50 Lbs. | 11.100 | 0.180 | 100 | 5,000 |
| 14" | **1450-P** | 4.000 | 50 Lbs. | 14.200 | 0.180 | 100 | 5,000 |

## PUSH MOUNT CABLE TIES



- Secure a cable tie to a back panel quickly and easily, eliminating the possibility of adhesive mount failure.
- Drill the mounting hole and insert.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and excellent dielectric properties.

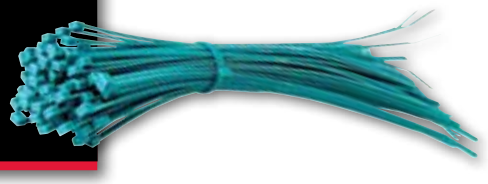
**TEMPERATURE RATING:**
-40 °C to 85 °C (-40 °F to 185 °F) and will withstand temperatures up to 149 °C (300.2 °F).
94V-2 flammability rating.

| MAX. WIRE/ CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | MTG. HOLE SIZE REQ. (IN.) | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 6" | **640-PM** | 1.59 | 40 Lbs. | 3/16 | 6.125 | 0.139 | 100 | 1,000 |

CABLE TIES

# Tefzel, Marker Cable Ties

TFZ, -ID SERIES





## TEFZEL CABLE TIES

- Suitable for extreme environments.
- Rated for air handling spaces and chemical, weather and radiation resistant.
- Ideal for high temperature applications, up to 150 °C (302 °F) continuous operating temperature.
- UL 94V-0 approved.
- Aqua blue in color.

**TEMPERATURE RATING:**
18.3 °C to 150 °C (65 °F to 302 °F).
Melting point 271.1 °C (520 °F).

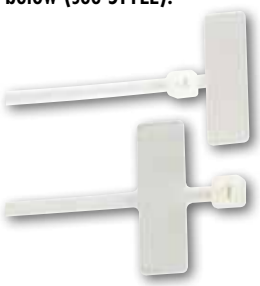
### TRUE PLENUM RATING

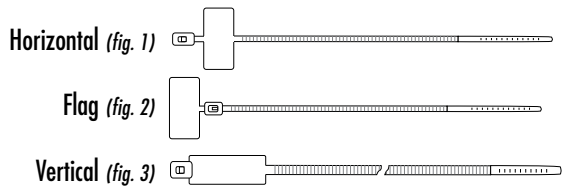
Air handling ties approved for indoor use in air handling spaces and plenums and ducts per NFPA-1993.

| MAX. WIRE/CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 8" | **TFZ850** | 1.750 | 50 Lbs. | 7.500 | 0.190 | 100 | 1,000 |
| 11" | **TFZ1150** | 3.000 | 50 Lbs. | 11.500 | 0.190 | 100 | 1,000 |

## MARKER TIES

- Manufactured from natural colored Nylon 66, with an identification area provided as detailed below (see STYLE).






| MAX. WIRE/ CABLE SIZE | CAT. NO. | STYLE | MAX. BUNDLE DIA. | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| | **418-ID** | Vertical | 0.75 | 18 Lbs. | 4.000 | 0.100 | 100 | 1,000 |
| 4" | **418F-ID** | Flag | 0.75 | 18 Lbs. | 4.000 | 0.100 | 100 | 1,000 |
| | **418H-ID** | Horizontal | 0.75 | 18 Lbs. | 4.000 | 0.100 | 100 | 1,000 |
| 7" | **750-ID** | Vertical | 2 | 50 Lbs. | 7.800 | 0.183 | 100 | 1,000 |
| 8" | **818H-ID** | Horizontal | 2 | 18 Lbs. | 8.000 | 0.100 | 100 | 1,000 |

CABLE TIES

# HVAC Standard & Weather Resistant Ties



## HVAC UL181B FOR FLEXIBLE DUCT

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

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Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| CAT. NO. | LENGTH | WIDTH | COLOR | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **36175** | 36 | 0.354 | Natural | 10.625 | 175 Lbs. | 50 | 500 |
| **361750** | 36 | 0.354 | Black | 10.625 | 175 Lbs. | 50 | 500 |
| **48175** | 48 | 0.354 | Natural | 15.000 | 175 Lbs. | 50 | 500 |
| **481750** | 48 | 0.354 | Black | 15.000 | 175 Lbs. | 50 | 500 |

CABLE TIES

# Releasable & Stainless Steel Ties

-R, SS SERIES





## RELEASABLE

- Releasable ties are manufactured from either natural Nylon 66 or Weather Resistant Nylon 66, these ties can be easily released and re-used.

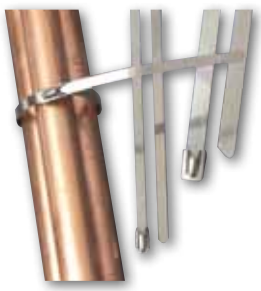
**TEMPERATURE RATING:**
-40 °C to 85 °C (-40 °F to 185 °F).

| MAX. WIRE/CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 8" | **850-R** | 2.000 | 50 Lbs. | 8.00 | 0.210 | 100 | 1,000 |

## STAINLESS STEEL CABLE TIES

- Made of Grade 304 stainless steel and are ideally suited for hazardous environments.
- Roller-ball design that is self locking, fast and easy to install.
- Smooth edges will not damage wires.
- Installation by hand or with a tool.
- Available with a non-toxic, halogen-free polyester coating in a wide choice of colors.
- Available in Grade 316, for applications that require extremely high corrosion resistance. To order 316SS material, add suffix "-316" to part number.

**TEMPERATURE RATING:**
-80 °C to 538 °C (-62.2 °F to 281.1 °F).



### TRUE PLENUM RATING

Air handling ties approved for indoor use in air handling spaces and plenums and ducts per NFPA-1993.

| MAX. WIRE/ CABLE SIZE | CAT. NO. | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| 8" | **SS8100** | 1.970 | 100 Lbs. | 8.000 | 0.181 | 100 | 500 |
| 14" | **SS14100** | 3.940 | 100 Lbs. | 14.000 | 0.181 | 100 | 500 |
| | **SS14250** | 3.940 | 250 Lbs. | 14.000 | 0.311 | 100 | 500 |
| 20" | **SS20100** | 5.900 | 100 Lbs. | 20.5 | 0.181 | 100 | 500 |
| | **SS20250** | 5.900 | 250 Lbs. | 20.5 | 0.311 | 100 | 500 |
| 26" | **SS26250** | 7.870 | 250 Lbs. | 26.5 | 0.311 | 100 | 500 |

CABLE TIES

# Standard Cable Ties: Color



## FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

## RATINGS

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Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| ORANGE (-3) | GREEN (-5) | RED (-2) |
|---|---|---|
|  |  |  |
| **YELLOW (-4)** | **BLUE (-6)** | **BROWN (-1)** |
|  |  |  |
| **PURPLE (-7)** | **GRAY (-8)** | |
|  |  | |

| MAX. WIRE/ CABLE SIZE (L) | CAT. NO. |
|---|---|
| 4" | 418-4 |
| 5" | 530-1 |
| | 530-2 |
| | 530-3 |
| | 530-4 |
| | 530-5 |
| | 530-6 |
| | 530-8 |
| 7" | 750-2 |
| | 750-3 |
| | 750-4 |
| | 750-5 |
| | 750-6 |
| | 750-7 |
| | 750-8 |
| 8" | 840-1 |
| | 840-2 |
| | 840-3 |
| | 840-4 |
| | 840-5 |
| | 840-6 |
| | 840-7 |
| | 840-8 |
| 11" | 1150-2 |
| 14" | 1450-2 |
| | 1450-3 |
| | 1450-4 |
| | 1450-5 |





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| COLOR | MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| Yellow | 0.800 | 18 Lbs. | 4.000 | 0.095 | 100 | 5,000 |
| Brown | 1.300 | 30 Lbs. | 5.600 | 0.140 | 100 | 5,000 |
| Red | 1.300 | 30 Lbs. | 5.000 | 0.140 | 100 | 5,000 |
| Orange | 1.300 | 30 Lbs. | 5.000 | 0.140 | 100 | 5,000 |
| Yellow | 1.250 | 30 Lbs. | 5.600 | 0.130 | 100 | 5,000 |
| Green | 1.300 | 30 Lbs. | 5.000 | 0.140 | 100 | 5,000 |
| Blue | 1.300 | 30 Lbs. | 5.000 | 0.140 | 100 | 5,000 |
| Gray | 1.300 | 30 Lbs. | 5.600 | 0.140 | 100 | 5,000 |
| Red | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Orange | 1.810 | 50 Lbs. | 7.500 | 0.189 | 100 | 3,000 |
| Yellow | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Green | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Blue | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Purple | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Gray | 1.810 | 50 Lbs. | 8.000 | 0.189 | 100 | 3,000 |
| Brown | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Red | 2.060 | 40 Lbs. | 8.000 | 0.140 | 100 | 3,000 |
| Orange | 2.060 | 40 Lbs. | 8.000 | 0.140 | 100 | 3,000 |
| Yellow | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Green | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Blue | 2.060 | 40 Lbs. | 8.000 | 0.140 | 100 | 3,000 |
| Purple | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Gray | 2.060 | 40 Lbs. | 8.500 | 0.140 | 100 | 3,000 |
| Red | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Red | 4.000 | 50 Lbs. | 14.100 | 0.187 | 100 | 2,000 |
| Orange | 4.000 | 50 Lbs. | 14.100 | 0.187 | 100 | 2,000 |
| Yellow | 4.070 | 50 Lbs. | 14.000 | 0.189 | 100 | 2,000 |
| Green | 4.000 | 50 Lbs. | 14.100 | 0.187 | 100 | 2,000 |

# Standard Cable Ties: Fluorescent



## FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| ORANGE (-16) | GREEN (-18) | PINK (-11) |
|---|---|---|
|  |  |  |
| **YELLOW (17)** | **BLUE (-20)** | |
|  |  | |

| MAX. WIRE/ CABLE SIZE | CAT. NO. |
|---|---|
| | 750-16 |
| 7" | 750-18 |
| | 750-20 |
| | 840-11 |
| | 840-16 |
| 8" | 840-17 |
| | 840-18 |
| | 840-20 |
| | 1150-11 |
| | 1150-16 |
| 11" | 1150-17 |
| | 1150-18 |
| | 1150-20 |





| COLOR (FLOURESCENT) | MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| Orange | 1.750 | 50 Lbs. | 7.500 | 0.187 | 100 | 3,000 |
| Green | 1.810 | 50 Lbs. | 7.500 | 0.189 | 100 | 3,000 |
| Blue | 1.810 | 50 lbs. | 7.500 | 0.189 | 100 | 3,000 |
| Pink | 2.000 | 40 Lbs. | 8.500 | 0.130 | 100 | 3,000 |
| Orange | 2.000 | 40 Lbs. | 8.500 | 0.130 | 100 | 3,000 |
| Yellow | 2.060 | 40 Lbs. | 8.000 | 0.140 | 100 | 3,000 |
| Green | 2.000 | 40 Lbs. | 8.500 | 0.130 | 100 | 3,000 |
| Blue | 2.000 | 40 Lbs. | 8.500 | 0.130 | 100 | 3,000 |
| Pink | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Orange | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Yellow | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Green | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |
| Blue | 3.000 | 50 Lbs. | 11.100 | 0.187 | 100 | 2,000 |

CABLE TIES

# Cable Tie Canister Packs

CTP SERIES



## FEATURES

- Four sizes of canister packs include popular assortments of standard and colored cable ties.
- Provided in an air-tight canister to prevent drying, extending life.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| CAT. NO. | CONTENTS | QTY. |
|---|---|---|
| CTP-300 | 418 | 100 |
| | 418-2 | 25 |
| | 418-4 | 25 |
| | 418-5 | 25 |
| | 418-6 | 25 |
| | 840 | 50 |
| | 840-2 | 25 |
| | 840-6 | 25 |
| CTP-650 | 418 | 200 |
| | 418-2 | 25 |
| | 418-4 | 25 |
| | 418-5 | 25 |
| | 418-6 | 25 |
| | 840 | 300 |
| | 1150 | 50 |
| CTP-650N | 418 | 300 |
| | 840 | 300 |
| | 1150 | 50 |
| CTP-650B | 4180 | 300 |
| | 8400 | 300 |
| | 11500 | 50 |





nsi INDUSTRIES



| COLOR | BUNDLE DIAL | MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| Natural | 7/8 | 0.875 | 18 Lbs.. | 4.000 | 0.100 | 1 | 12 |
| Red | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Yellow | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Green | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Blue | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Natural | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Red | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Blue | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Natural | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Red | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Yellow | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Green | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Blue | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Natural | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Natural | 3 1/8 | 3.125 | 50 Lbs. | 11.000 | 0.187 | 1 | 12 |
| Natural | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| Natural | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| Natural | 3 1/8 | 3.125 | 50 Lbs. | 11.000 | 0.187 | 1 | 12 |
| UV Black | 7/8 | 0.875 | 18 Lbs. | 4.000 | 0.100 | 1 | 12 |
| UV Black | 2 1/8 | 2.125 | 40 Lbs. | 8.000 | 0.140 | 1 | 12 |
| UV Black | 3 1/8 | 3.125 | 50 Lbs. | 11.000 | 0.187 | 1 | 12 |

CABLE TIES

# Natural & Weather Resistant Mountable Ties

## -MH SERIES



## FEATURES

- Standard mountable cable ties are manufactured from natural Nylon 66 and come complete with a mounting hole.
- Black weather mountable cable ties are also screw mounted, are manufactured from Weather Resistant Nylon 66 and suitable for outdoor use.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-2:**
"Suitable for use in air-handling spaces (Plenums)"

| MAX. WIRE/ CABLE SIZE | CAT. NO. | COLOR | MAX BUNDLE DIAMETER | TENSILE STRENGHT | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|
| 5" | **530MH** | Natural | 1.500 | 30 Lbs. | 6.000 | 0.145 | 100 | 1,000 |
| 7" | **750MH** | Natural | 2.250 | 50 Lbs. | 8.000 | 0.165 | 100 | 1,000 |
| 11" | **1150MH** | Natural | 3.250 | 50 Lbs. | 11.750 | 0.188 | 100 | 1,000 |
| 14" | **1450MH** | Natural | 4.000 | 50 Lbs. | 14.500 | 0.188 | 100 | 500 |
| | **14120MH** | Natural | 4.750 | 120 Lbs. | 15.500 | 0.310 | 100 | 500 |
| 5" | **5300MH** | UV Black | 1.500 | 30 Lbs. | 6.000 | 0.145 | 100 | 1,000 |
| 7" | **7500MH** | UV Black | 2.000 | 50 Lbs. | 8.000 | 0.165 | 100 | 1,000 |
| 11" | **11500MH** | UV Black | 3.250 | 50 Lbs. | 11.750 | 0.188 | 100 | 1,000 |
| 14" | **14500MH** | UV Black | 4.000 | 50 Lbs. | 14.500 | 0.188 | 100 | 500 |
| | **141200MH** | UV Black | 4.750 | 120 Lbs. | 15.500 | 0.310 | 100 | 500 |

CABLE TIES

# Velcro Ties

## V SERIES





## FEATURES

- Unique back-to-back fastening system: a self-gripping, double-sided strap that is easy to use and cost effective.
- Molded high performance polyethylene hook fastener laminated on to a non-woven polyester loop.
- Low peel strength allows for easy entry or removal by the user yet the average shear strength is 3.0 PSI, which increases substantially with each circular rotation.
  Will not over-cinch delicate cable and fiber optics.
- For use with cord and cable management, wire harnesses, inventory control, fibre optics, packaging, in-plant maintenance, etc.
- Allow for a minimum 2" overlap when installing.
- Available in five colors.

## RATINGS

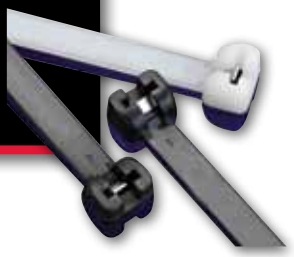
| MAX. WIRE/ CABLE SIZE | CAT. NO. | COLOR | MAX. BUNDLE DIAMETER | LENGTH (IN.) | WIDTH (IN.) | PCS. PER. PKG. | PKG. PER. CTN. |
|---|---|---|---|---|---|---|---|
| 8" | **V850** | Black | 1.750 | 8" | 0.500 | 10 | 25 |
| | **V850-2** | Red | 1.750 | 8" | 0.500 | 10 | 25 |
| | **V850-3** | Orange | 1.750 | 8" | 0.500 | 10 | 25 |
| | **V850-4** | Yellow | 1.750 | 8" | 0.500 | 10 | 25 |
| | **V850-6** | Blue | 1.750 | 8" | 0.500 | 10 | 25 |
| 12" | **V1250** | Black | 3.000 | 12" | 0.500 | 10 | 20 |
| | **V1250-2** | Red | 3.000 | 12" | 0.500 | 10 | 20 |
| | **V1250-4** | Yellow | 3.000 | 12" | 0.500 | 10 | 20 |
| | **V1250-6** | Blue | 3.000 | 12" | 0.500 | 10 | 20 |
| 80" | **V875** | Black | Perforated Every 8" | 80" | 0.75 | 1 | 10 |
| 10' | **V1275** | Black | Perforated Every 12" | 10' | 0.75 | 1 | 10 |
| 15' | **V180** | Black | - | 15' | 0.75 | 1 | 10 |
| 75' | **V900** | Black | - | 75' | 0.75 | 1 | 3 |
| 600' | **V7200** | Black | - | 600' | 0.75 | 1 | 1 |

*Note: Rolls of Velcro tape can be cut to desired length.

CABLE TIES

# Cable Ties with Stainless Steel Barb

## -SB SERIES



## FEATURES

- Natural and UV resistant black, nylon cable ties have stainless steel barb; barb is at 45° pitch with 60° cutting angle, setting strap to desired position to suit all diameters in range.
- Flexible and resistant at low temperatures and humidity-free environments.
- Cold and fastening resistances are higher than normal cable tie tolerances.

## RATINGS

c UL us
LISTED
Positioning Devices
UL62275

**TEMPERATURE RATINGS:**
Min., -40°F to Max., 185°F (-40°C to 85°C)

**IDEAL STORAGE:**
23˚C, Humidity 50%, Avoid storing cable ties next to warm objects

**TYPE 21 AH-1:**
"Suitable for use in air-handling spaces (Plenums)"

| MAX. WIRE/ CABLE SIZE | CAT. NO. |
|---|---|
| 4" | 418-SB |
| 5" | 540-SB |
| 7" | 750-SB |
| 8" | 818-SB |
| | 840-SB |
| 11" | 1140-SB |
| | 1150-SB |
| 14" | 1450-SB |
| 14" | 14120-SB |
| | |
| 4" | 4180-SB |
| 5" | 5400-SB |
| 7" | 7500-SB |
| 8" | 8180-SB |
| | 8400-SB |
| 11" | 11400-SB |
| | 11500-SB |
| 14" | 14500-SB |
| | 141200-SB |





| COLOR | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. |
|---|---|---|---|---|---|
| Natural | 0.944 | 18 Lbs. | 4.000 | 0.100 | 100 |
| Natural | 1.417 | 40 Lbs. | 5.500 | 0.137 | 100 |
| Natural | 2.007 | 50 Lbs. | 7.322 | 0.177 | 100 |
| Natural | 2.165 | 18 Lbs. | 7.874 | 0.100 | 100 |
| Natural | 2.165 | 40 Lbs. | 7.874 | 0.137 | 100 |
| Natural | 3.149 | 40 Lbs. | 11.023 | 0.137 | 100 |
| Natural | 3.149 | 50 Lbs. | 11.023 | 0.177 | 100 |
| Natural | 3.976 | 50 Lbs. | 14.173 | 0.177 | 100 |
| Natural | 3.976 | 120 Lbs. | 14.173 | 0.295 | 50 |
| | | | | | |
| UV Black | 0.944 | 18 Lbs. | 4.000 | 0.100 | 100 |
| UV Black | 1.417 | 40 Lbs. | 5.500 | 0.137 | 100 |
| UV Black | 2.007 | 50 Lbs. | 7.322 | 0.177 | 100 |
| UV Black | 2.165 | 18 Lbs. | 7.874 | 0.100 | 100 |
| UV Black | 2.165 | 40 Lbs. | 7.874 | 0.137 | 100 |
| UV Black | 3.149 | 40 Lbs. | 11.023 | 0.137 | 100 |
| UV Black | 3.149 | 50 Lbs. | 11.023 | 0.177 | 100 |
| UV Black | 3.976 | 50 Lbs. | 14.173 | 0.177 | 100 |
| UV Black | 3.976 | 120 Lbs. | 14.173 | 0.295 | 50 |

# Cable Tie Installation Tools

## TRT, SSCT SERIES

## FEATURES

### TRT

- Ergonomic, durable cable tie tools suitable for tensile strengths from 18lb through 250lb extra heavy lashing ties.

### SSCT

- Stainless Steel manual tools are ergonomic, durable cable tie tools suitable for 100lb and 250lb tensile strength stainless steel ties.
- SSCT-5 has preset tension adjustment control, allowing for uniform tension setting and automatic cutting on each bundle.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |
| **4** | **5** | **6** |
|  |  |  |
| **7** | | |
|  | | |

| CAT. NO. | FIG. NO. | TOOL DUTY | APPLICATION | MIN. TENSILE STRENGTH | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **TRT-100** | 1 | Light weight, plastic | Miniature, intermediate and standard duty cable ties | 18-50 Lbs. | 1 |
| **TRT-200** | 2 | Sturdy, metal | Miniature, intermediate, and standard duty cable ties | 18-50 Lbs. | 1 |
| **TRT-300** | 3 | Heavy Duty, all-metal | Miniature up to Heavy Duty cable ties | 18-175 Lbs. | 1 |
| **TRT-400** | 4 | Extra Heavy Duty, all-metal | Miniature up to extra Heavy Duty cable ties | 18-250 Lbs. | 1 |
| **TRT-500** | 5 | Deluxe cable tie tool | Miniature up to Standard Duty cable ties | 18-50 Lbs. | 1 |
| **SSCT-3** | 6 | Stainless Steel cable tie tool | 100lb and 250lb Stainless Steel cable ties | 100-250 Lbs. | 1 |
| **SSCT-5** | 7 | Stainless Steel cable tie tool | 100lb and 250lb Stainless Steel cable ties | 100-250 Lbs. | 1 |

CABLE TIE MOUNTS

# Cable Tie Adhesive Mounts

FTH SERIES

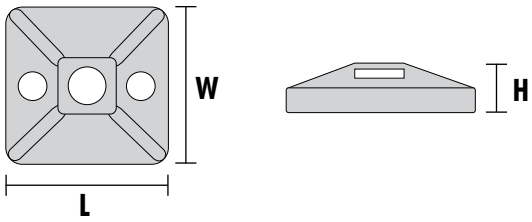


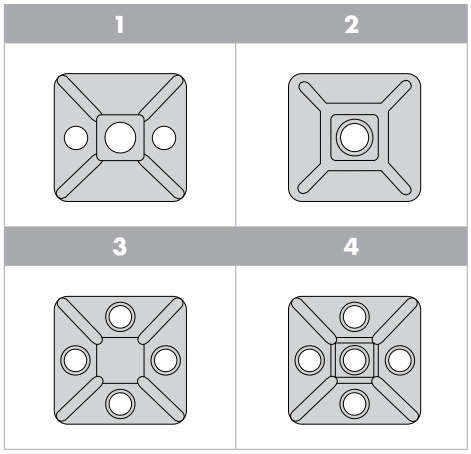


## FEATURES

- Mounts are used to route and fasten cable-tied bundles to flat surfaces.
- Cable ties may be inserted from any of four directions, eliminating orientation time.
- The top of the mount has a cradle design which allows the bundle to fit snugly and a mounting hole for additional support, where required.

**TEMPERATURE RATING:**
-80 °C to 538 °C (-112 °F to 1000.4 °F).




| CAT. NO. | FIG. NO. | COLOR | SLOT WIDTH | LENGTH (IN.) | WIDTH (IN.) | HEIGHT |
|---|---|---|---|---|---|---|
| **FTH5A** | 1 | Natural | 0.140 | 0.750 | 0.750 | 0.140 |
| **FTH5A-B** | 1 | Black | 0.140 | 0.750 | 0.750 | 0.140 |
| **FTH7A** | 2 | Natural | 0.203 | 1.000 | 1.000 | 0.160 |
| **FTH7A-B** | 2 | Black | 0.203 | 1.000 | 1.000 | 0.160 |
| **FTH15A** | 3 | Natural | 0.394 | 1.500 | 1.500 | 0.300 |
| **FTH15A-B** | 3 | Black | 0.394 | 1.500 | 1.500 | 0.300 |
| **FTH20A** | 4 | Natural | 0.500 | 2.000 | 2.000 | 0.500 |
| **FTH20A-B** | 4 | Black | 0.500 | 2.000 | 2.000 | 0.500 |

CABLE TIE MOUNTS

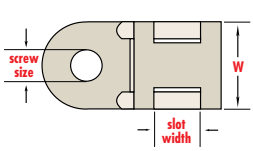
# Push Mounts

SM SERIES

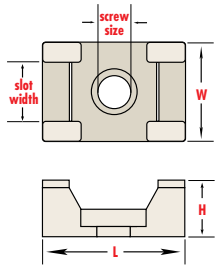
## FEATURES

- Manufactured using UL approved Nylon 66, 94V-2.
- Saddle design provides maximum stability to wire bundles.




SM-0, OL




SM-1, 2, 3

## RATINGS

**TEMPERATURE RATING:**
-80 °C to 538 °C (-112 °F to 1000.4 °F).

| CAT. NO. | FIG. NO. | COLOR | SCREW SIZE | SLOT WIDTH | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| **SM-0** | 1 | Natural | 0.133 | 0.200 | 0.750 | 0.370 | 0.200 | 100 | 1,000 |
| **SM-0L** | 1 | Natural | 0.204 | 0.200 | 0.750 | 0.370 | 0.200 | 100 | 1,000 |
| **SM-1** | 2 | Natural | 0.120 | 0.280 | 0.590 | 0.390 | 0.280 | 100 | 1,000 |
| **SM-2** | 2 | Natural | 0.130 | 0.160 | 0.500 | 0.280 | 0.230 | 100 | 1,000 |
| **SM-3** | 2 | Natural | 0.236 | 0.350 | 0.900 | 0.630 | 0.350 | 100 | 1,000 |
| **SM-1-B** | 2 | Black | 0.120 | 0.280 | 0.590 | 0.390 | 0.280 | 100 | 1,000 |
| **SM-2-B** | 2 | Black | 0.130 | 0.160 | 0.500 | 0.280 | 0.230 | 100 | 1,000 |
| **SM-3-B** | 2 | Black | 0.236 | 0.350 | 0.900 | 0.630 | 0.350 | 100 | 1,000 |

CABLE TIE MOUNTS

# Polyethylene Nail Clips

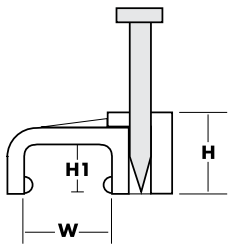
PNC SERIES

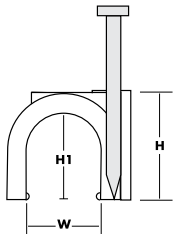


## FEATURES

- Made from impact resistant, non-corrosive polyethylene.
- Supplied with corrosion resistant, hardened steel nails already inserted for ease-of-use.
- The smooth polyethylene surface prevents damage to the insulation.

| 1 | 2 |
|---|---|
|  |  |




| CAT. NO. | FIGURE NO. | COLOR | WIDTH | HEIGHT (IN.) | HEIGHT 1 (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **PNC-217W** | 1 | White | 0.217 | 0.216 | 0.122 | 100 | 1,000 |
| **PNC-335W** | 1 | White | 0.335 | 0.315 | 0.205 | 100 | 1,000 |
| **PNC-157G** | 2 | Grey | 0.157 | 0.260 | 0.165 | 100 | 1,000 |
| **PNC-197G** | 2 | Grey | 0.197 | 0.299 | 0.206 | 100 | 1,000 |
| **PNC-236G** | 2 | Grey | 0.236 | 0.354 | 0.260 | 100 | 1,000 |
| **PNC-315G** | 2 | Grey | 0.315 | 0.453 | 0.339 | 100 | 1,000 |
| **PNC-391G** | 2 | Grey | 0.391 | 0.528 | 0.413 | 100 | 1,000 |

CABLE TIES

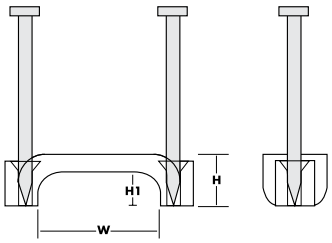
# Nail-On Plastic Staples for Romex

PNC SERIES



## PLASTIC STAPLES FOR ROMEX

- PNC-492W is suitable for use with 14/2, 14/3 or 12/2.
- PNC-736W is suitable for use with 12/3, 10/2 or 10/3.




## RATINGS

**RoHs** Compliant.

| CAT. NO. | FIG. NO. | COLOR | WIDTH | HEIGHT (IN.) | HEIGHT 1 (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **PNC-492W** | 3 | White | 0.492 | 0.315 | 0.209 | 100 | 5,000 |
| **PNC-736W** | 3 | White | 0.736 | 0.315 | 0.209 | 100 | 5,000 |

CABLE TIE MOUNTS

# Masonry Push Mounts & Adjustable Cable Clamps

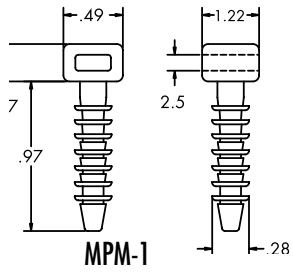
MPM, ADJCC SERIES





## MASONARY PUSH MOUNTS

- Manufactured using UL approved Nylon 66, 94V-2. Installs in masonry surfaces.
- Simply pre-drill a mounting hole, hammer the push mount in, then feed a cable tie through the head.



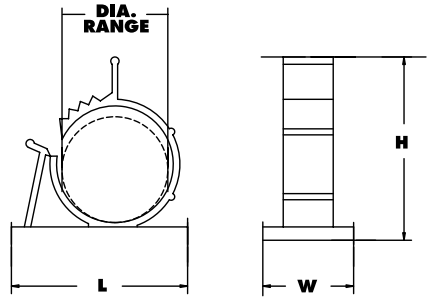

MPM-1

| CAT. NO. | CABLE TIE WIDTH ACCEPTABLE | THREAD LENGTH | OVERALL WIDTH | THREAD WIDTH | HEAD SIZE L X W | STD. PKG. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **MPM-1** | 0.39 | 0.97 | 1.22 | 0.28 | 0.49 x 0.47 | 100 | 500 |

## ADJUSTABLE CABLE CLAMPS

- Clamps are adjustable to accommodate various sizes of cables.
- Easy to install and open for unlimited usage.
- Manufactured using UL approved Nylon 66, 94V-2 and have an adhesive tape backing.








| CAT. NO. | DIA. RANGE | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **ADJCC-1** | 0.31 to 0.40 | 1.000 | 0.750 | 0.870 | 100 | 1,000 |
| **ADJCC-3** | 0.50 to 0.60 | 1.500 | 0.750 | 1.250 | 100 | 1,000 |
| **ADJCC-5** | 0.87 to 1.00 | 1.650 | 1.000 | 1.750 | 100 | 1,000 |

CABLE TIE CLAMPS

# Standard & Heavy Duty Nylon Cable Clamps

NC, NCH SERIES



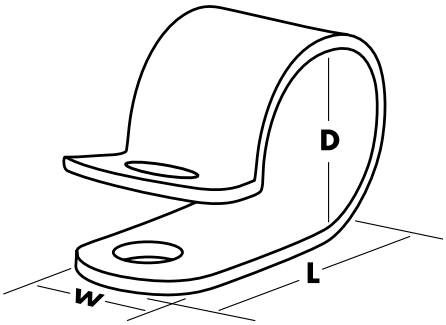
## FEATURES

### STANDARD DUTY

- Standard duty clamps are similar to heavy duty nylon cable clamps, except narrower in width.
- Made from Nylon 66. 94 V-2 rated.
- Complete with 0.180" mounting hole.

### HEAVY DUTY

- Made from Nylon 66. 94V-2 rated.
- Designed with wide arc to hold cables, tubes, etc.
- Fully radiused interior edges to protect cable insulation.
- Non-conductive, non-corrosive, resistant to fuels, lubricants and most chemicals.
- 0.180" mounting hole.




| CAT. NO. |
|---|
| NC-125 |
| NC-125-0 |
| NC-187 |
| NC-187-0 |
| NC-250 |
| NC-250-0 |
| NC-312 |
| NC-312-0 |
| NC-375 |
| NC-375-0 |
| NC-500 |
| NC-500-0 |
| |
| NCH-250 |
| NCH-250-0 |
| NCH-312 |
| NCH-312-0 |
| NCH-375 |
| NCH-375-0 |
| NCH-437 |
| NCH-500 |
| NCH-500-0 |
| NCH-562 |
| NCH-625 |
| NCH-750 |
| NCH-1000 |



| DIAMETER | COLOR | LENGHT (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **STANDARD DUTY** | | | | | |
| 0.125 | Natural | 0.780 | 0.378 | 100 | 1,200 |
| | Black | 0.780 | 0.378 | 100 | 1,200 |
| 0.187 | Natural | 0.780 | 0.378 | 100 | 1,200 |
| | Black | 0.780 | 0.378 | 100 | 1,200 |
| 0.250 | Natural | 0.790 | 0.394 | 100 | 1,200 |
| | Black | 0.790 | 0.394 | 100 | 1,200 |
| 0.312 | Natural | 0.860 | 0.394 | 100 | 1,200 |
| | Black | 0.860 | 0.394 | 100 | 1,200 |
| 0.375 | Natural | 0.940 | 0.375 | 100 | 1,200 |
| | Black | 0.940 | 0.375 | 100 | 1,200 |
| 0.500 | Natural | 1.220 | 0.375 | 100 | 1,200 |
| | Black | 1.220 | 0.375 | 100 | 1,200 |
| **HEAVY DUTY** | | | | | |
| 0.250 | Natural | 0.790 | 0.500 | 100 | 1,200 |
| | Black | 0.790 | 0.500 | 100 | 1,200 |
| 0.312 | Natural | 0.860 | 0.500 | 100 | 1,200 |
| | Black | 0.860 | 0.500 | 100 | 1,200 |
| 0.375 | Natural | 0.940 | 0.472 | 100 | 1,200 |
| | Black | 0.940 | 0.472 | 100 | 1,200 |
| 0.437 | Natural | 1.080 | 0.500 | 100 | 1,200 |
| 0.500 | Natural | 1.220 | 0.472 | 100 | 1,200 |
| | Black | 1.220 | 0.472 | 100 | 1,200 |
| 0.562 | Natural | 1.280 | 0.500 | 100 | 1,200 |
| 0.625 | Natural | 1.350 | 0.472 | 100 | 1,200 |
| 0.750 | Natural | 1.380 | 0.472 | 100 | 1,200 |
| 1.000 | Natural | 1.690 | 0.472 | 100 | 1,200 |

PANEL CHANNEL

# Standard Slot Panel Channel

PC--LS SERIES

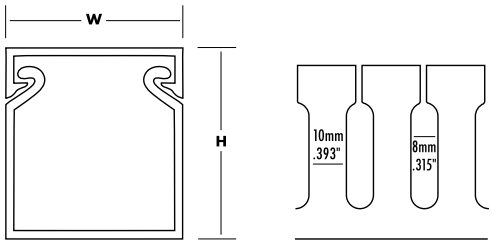


## FEATURES

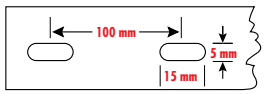
- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires.
- Restricted slot opening is designed to retain wires and allow for breakout when required. Individual wires are easily traced and removed when necessary.
- Scored sidewalls allow for easy break-off of panel channel sections.
- All sizes are supplied with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- Maximum service temperature: 85 °C (185 °F), Tested to UL File up to 50 °C (122 °F). 94V-0 Rated.
- For other sizes, please contact NSi.

## RATINGS

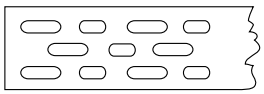
Finger width = 10 mm, slot width = 8 mm.




Mounting holes:
For widths up to 2.5"




For widths over 2.5"



| CAT. NO. |
|---|
| PC1010-LS |
| PC1010-LS-W |
| PC1015-LS |
| PC1020-LS |
| PC1020-LS-W |
| PC1030-LS |
| PC1030-LS-W |
| PC1040-LS |
| PC1040-LS-W |
| PC1515-LS |
| PC1515-LS-W |
| PC1520-LS |
| PC1520-LS-W |
| PC1530-LS |
| PC1530-LS-W |
| PC1540-LS-W |
| PC2010-LS |
| PC2010-LS-W |
| PC2020-LS |
| PC2020-LS-W |
| PC2030-LS |
| PC2030-LS-W |
| PC2040-LS |
| PC2040-LS-W |
| PC3020-LS |
| PC3020-LS-W |
| PC3030-LS |
| PC3030-LS-W |
| PC3040-LS |
| PC3040-LS-W |
| PC4020-LS |
| PC4030-LS |
| PC4030-LS-W |
| PC4040-LS |
| PC4040-LS-W |
| PC6040-LS |
| PC6040-LS-W |



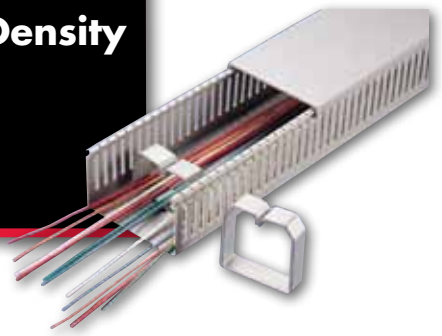


| NOMINAL SIZE | COLOR | LENTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|
| 1 x 1 | Grey | 6' | 6' | 72' |
| 1 x 1 | White | 6' | 6' | 72' |
| 1 x 1 1/2 | Grey | 6' | 6' | 72' |
| 1 x 2 | Grey | 6' | 6' | 72' |
| 1 x 2 | White | 6' | 6' | 72' |
| 1 x 3 | Grey | 6' | 6' | 72' |
| 1 x 3 | White | 6' | 6' | 72' |
| 1 x 4 | Grey | 6' | 6' | 72' |
| 1 x 4 | White | 6' | 6' | 72' |
| 1 1/2 x 1 1/2 | Grey | 6' | 6' | 72' |
| 1 1/2 x 1 1/2 | White | 6' | 6' | 72' |
| 1 1/2 x 2 | Grey | 6' | 6' | 72' |
| 1 1/2 x 2 | White | 6' | 6' | 72' |
| 1 1/2 x 3 | Grey | 6' | 6' | 72' |
| 1 1/2 x 3 | White | 6' | 6' | 72' |
| 1 1/2 x 4 | White | 6' | 6' | 72' |
| 2 x 1 | Grey | 6' | 6' | 72' |
| 2 x 1 | White | 6' | 6' | 72' |
| 2 x 2 | Grey | 6' | 6' | 72' |
| 2 x 2 | White | 6' | 6' | 72' |
| 2 x 3 | Grey | 6' | 6' | 72' |
| 2 x 3 | White | 6' | 6' | 72' |
| 2 x 4 | Grey | 6' | 6' | 72' |
| 2 x 4 | White | 6' | 6' | 72' |
| 3 x 2 | Grey | 6' | 6' | 72' |
| 3 x 2 | White | 6' | 6' | 72' |
| 3 x 3 | Grey | 6' | 6' | 72' |
| 3 x 3 | White | 6' | 6' | 72' |
| 3 x 4 | Grey | 6' | 6' | 72' |
| 3 x 4 | White | 6' | 6' | 72' |
| 4 x 2 | Grey | 6' | 6' | 72' |
| 4 x 3 | Grey | 6' | 6' | 72' |
| 4 x 3 | White | 6' | 6' | 72' |
| 4 x 4 | Grey | 6' | 6' | 72' |
| 4 x 4 | White | 6' | 6' | 72' |
| 6 x 4 | Grey | 6' | 6' | 72' |
| 6 x 4 | White | 6' | 6' | 72' |

PANEL CHANNEL

# Narrow Finger, High Density Panel Channel

PC--LSN SERIES

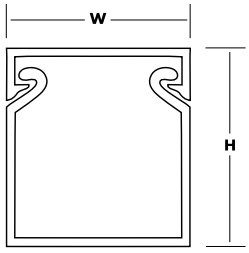


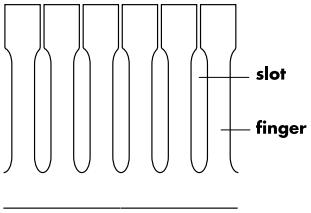
## FEATURES

- Narrower finger width is 6mm.
- Slot width is 4mm.
- Made from high-impact, self-extinguishing, warp-proof PVC.
- Optional adhesive backing is available.
- Maximum service temperature: 85 °C (185 °F).
- Tested to UL File up to 50 °C (122 °F). 94V-0 rated.
- 5mm slot width is available in both white and grey for 1020, 2020, 2030, 2040

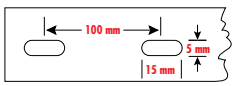
## RATINGS



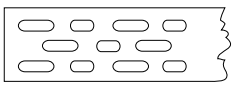


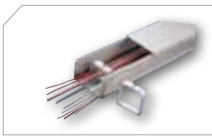

**Mounting holes:**
**For widths up to 2.5″**




**For widths over 2.5″**



| CAT. NO. |
|---|
| PC.75.75-LSN |
| PC1010-LSN |
| PC1010-LSN-W |
| PC1015-LSN |
| PC1015-LSN-W |
| PC10175-LSN |
| PC10175-LSN-W |
| PC1020-LSN |
| PC1020-LSN-W |
| PC10250-LSN |
| PC1030-LSN |
| PC1030-LSN-W |
| PC1515-LSN |
| PC1520-LSN |
| PC1520-LSN-W |
| PC1530-LSN |
| PC1540-LSN |
| PC175175-LSN |
| PC2020-LSN |
| PC2020-LSN-W |
| PC2030-LSN |
| PC2030-LSN-W |
| PC2040-LSN |
| PC3020-LSN |
| PC3020-LSN-W |
| PC3030-LSN |
| PC3040-LSN |
| PC4020-LSN-W |
| PC4030-LSN |
| PC4040-LSN |



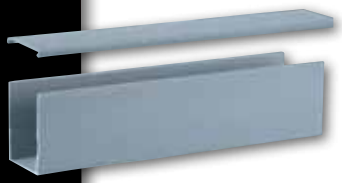


| NOMINAL SIZE | COLOR | LENTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|
| 3/4 x 3/4 | Grey | 6' | 6' | 72' |
| 1 x 1 | Grey | 6' | 6' | 72' |
| 1 x 1 | White | 6' | 6' | 72' |
| 1 x 1 1/2 | Grey | 6' | 6' | 72' |
| 1 x 1 1/2 | White | 6' | 6' | 72' |
| 1 x 1 3/4 | Grey | 6' | 6' | 72' |
| 1 x 1 3/4 | White | 6' | 6' | 72' |
| 1 x 2 | Grey | 6' | 6' | 72' |
| 1 x 2 | White | 6' | 6' | 72' |
| 1 x 2 1/2 | Grey | 6' | 6' | 72' |
| 1 x 3 | Grey | 6' | 6' | 72' |
| 1 x 3 | White | 6' | 6' | 72' |
| 1 1/2 x 1 1/2 | Grey | 6' | 6' | 72' |
| 1 1/2 x 2 | Grey | 6' | 6' | 72' |
| 1 1/2 x 2 | White | 6' | 6' | 72' |
| 1 1/2 x 3 | Grey | 6' | 6' | 72' |
| 1 1/2 x 4 | Grey | 6' | 6' | 72' |
| 1 3/4 x 1 3/4 | Grey | 6' | 6' | 72' |
| 2 x 2 | Grey | 6' | 6' | 72' |
| 2 x 2 | White | 6' | 6' | 72' |
| 2 x 3 | Grey | 6' | 6' | 72' |
| 2 x 3 | White | 6' | 6' | 72' |
| 2 x 4 | Grey | 6' | 6' | 72' |
| 3 x 2 | Grey | 6' | 6' | 72' |
| 3 x 2 | White | 6' | 6' | 72' |
| 3 x 3 | Grey | 6' | 6' | 72' |
| 3 x 4 | Grey | 6' | 6' | 72' |
| 4 x 2 | White | 6' | 6' | 72' |
| 4 x 3 | Grey | 6' | 6' | 72' |
| 4 x 4 | Grey | 6' | 6' | 72' |

PANEL CHANNEL

# Solid Wall Panel Chanel, Floor Duct

PC, FD SERIES



## SOLID WALL PANEL CHANNEL

- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires where wire extraction is not necessary.
- Supplied complete with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- Maximum service temperature: 85 °C (185 °F).
- Tested to UL File up to 50 °C (122 °F). 94V-0 Rated.
- For other sizes, please contact NSi.

| CAT. NO. | COLOR | NOMINAL SIZE (IN) | LENGTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **PC2020** | Grey | 2 x 2 | 6' | 6' | 72' |
| **PC2030** | Grey | 2 x 3 | 6' | 6' | 72' |
| **PC3030** | Grey | 3 x 3 | 6' | 6' | 72' |
| **PC4040** | Grey | 4 x 4 | 6' | 6' | 72' |

## FLOOR DUCT

- 2.5" and 4" wide floor duct for use as safe temporary enclosure of electrical cords, data communications cables and other objects that present a trip hazard.
- Manufactured using soft PVC.



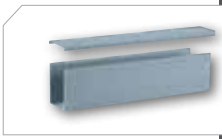
| CAT. NO. | NOMINAL SIZE (IN.) | COLOR | LENGTH (FT.) | WIDTH (IN) | | HEIGHT (IN) | | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ID | OD | ID | OD | | |
| **FD250W** | 2.5" | Off White | 6' | 0.750 | 2.600 | 0.430 | 0.600 | 6' | 18' |
| **FD250B** | | Brown | 6' | 0.750 | 2.600 | 0.430 | 0.600 | 6' | 18' |
| **FD250K** | | Black | 6' | 0.750 | 2.600 | 0.430 | 0.600 | 6' | 18' |
| **FD400W** | 4" | Off White | 6' | 1.160 | 4.000 | 0.610 | 0.910 | 6' | 18' |
| **FD400B** | | Brown | 6' | 1.160 | 4.000 | 0.610 | 0.910 | 6' | 18' |
| **FD400K** | | Black | 6' | 1.160 | 4.000 | 0.610 | 0.910 | 6' | 18' |

WIRE MARKING / ID

# Cable Marker Plates & Wire Marker Dispensers

MP, WLD SERIES





## CABLE MARKER PLATES

- Mark-Pro™ cable marker plates provide reliable method of identification of larger cables and bundles.
- They can be installed using standard nylon tie wraps.
- A fine tip permanent marker is recommended.
- Manufactured using natural colored nylon.

| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|
| **MP-2** | 1.58 | 0.790 | 100 | 1000 |
| **MP-3** | 2.36 | 1.000 | 100 | 1000 |

## WIRE MARKER DISPENSERS

- Permanent markers are recommended for writing on these vinyl self laminating labels, backed with an acrylic adhesive.

**TEMPERATURE RATING:**
-40 °C to 121.1 °C (-40 °F to 250 °F).
UL 969.




| CAT. NO. | WHITE-ON AREA | LENGHT (IN.) | WIDTH (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|
| **WLD-1** | 0.75 x 0.31 | 0.75 | 1.250 | 1 |
| **WLD-2** | 0.75 x 0.50 | 0.75 | 1.880 | 1 |
| **WLD-3** | 0.75 x 0.75 | 0.75 | 3.000 | 1 |

# Roll Label Dispenser & Industrial Tapes

RLD, IT-BW SERIES



## ROLL LABEL DISPENSER

- Reusable, refillable, compact and convenient, roll label dispensers provide 760 1-1/4" markers per dispenser.
- Made of tough tyvek material with an excellent acrylic adhesive and a silicone release liner.

**TEMPERATURE RATING:**
-40 °C to 121.1 °C (-40 °F to 250 °F).
UL 969.

| CAT. NO. | LABEL LEGEND | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|
| **RLD-1** | 0 - 9 | 1 | 1 |

## POLYESTER INDUSTRIAL TAPES

- A high performance label stock.
- 2 mil pressure sensitive polyester and thermal transfer resin ribbon in a cartridge.
- Up to seven year exterior life.
- Chemical, water, UV and abrasion resistant.

**TEMPERATURE RATING:**
-40 °C to 121.1 °C (-40 °F to 250 °F).




| CAT. NO. | SIZE | DESCRIPTION | LENGHT (FT.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---|---|---|---|---|---|---|
| **IT3/4-BW** | 3/4" | Black on White | 26' | 0.750 | 1 | 1 |
| **IT1-BW** | 1" | Black on White | 26' | 1.000 | 1 | 1 |

WIRE MARKING / ID

# Pocket Pal Marker Books

WMB SERIES






## FEATURES

- Convenient NSi wire marker books made with vinyl impregnated cloth.
- A strong adhesive ensures the marking will last.
- Printed with black legends on a white background.
- Each book contains 450 wire markers.

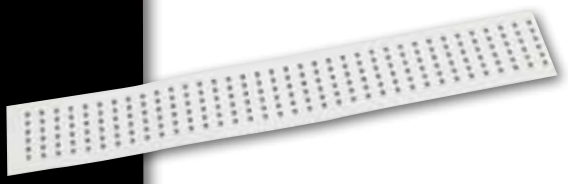
## RATINGS

**TEMPERATURE RATING:**
-40 °C to 121.1 °C (-40 °F to 250 °F).

| CAT. NO. | LEGEND | MARKERS PER BOOK | STD. CTN. QTY. |
|---|---|---|---|
| **WMB-1** | 0-9 | 45 | 12 |
| **WMB-2** | A-Z, 0-15 +,-,/ | 10 | 12 |
| **WMB-3** | 0-45 | 10 | 12 |
| **WMB-4** | 1,2,3 | 150 Each | 12 |
| **WMB-5** | A,B,C | 150 Each | 12 |
| **WMB-6** | T1,T2,T3 | 150 Each | 12 |
| **WMB-7** | L1,L2,L3 | 150 Each | 12 |
| **WMB-8** | 1-15<br>16-90<br>A-Z,+,-,/,0 | 6 Each<br>4 Each<br>2 Each | 12 |
| **WMB-9** | 1,2,3<br>A,B,C<br>L1,L2,L3<br>T1,T2,T3 | 45 Each<br>45 Each<br>30 Each<br>30 Each | 12 |
| **WMB-10** | 10 Nema Colors | 45 Each | 12 |
| **WMB-11** | 1-30 | 15 Each | 12 |
| **WMB-12** | A-Z<br>Blank<br>+<br>- | 15 Each<br>45 Each<br>8 Each<br>7 Each | 12 |
| **WMB-13** | +,-,AC,DC<br>POS,NEG,GND<br>NEUT<br>Spare,Blank | 45 Each<br>33 Each<br>27 Each<br>21 Each | 12 |
| **WMB-14** | 0-9<br>L1,L2,L3<br>T1,T2,T3 | 45 Each<br>15 Each<br>15 Each | 12 |
| **WMB-15** | 46-90 | 10 Each | 12 |
| **WMB-20** | 1 X 6 Blank<br>(1 x 1 Write on Area) | 30 Each | 12 |
| **WMB-21** | 1 x 3 Blank<br>(1x0.75 Write on Area) | 60 Each | 12 |
| **WMB-LC** | Load Center | 90 Each | 12 |

# Easy Release Wire Marker Cards

## WMC SERIES



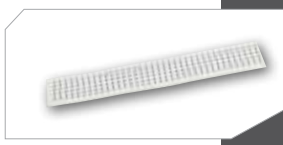
## FEATURES

- NSi wire marker cards are made from vinyl impregnated cloth with pressure sensitive adhesive.
- Each marker is 1-1/2" long and is mounted on easy release dispenser cards for quick, easy identification.
- Standard carton quantity of 25.

| CATALOG NO | SYMBOL | CATALOG NO | SYMBOL |
|---|---|---|---|
| **WMC-0** | 0 | **WMC-37** | 37 |
| **WMC-1** | 1 | **WMC-38** | 38 |
| **WMC-2** | 2 | **WMC-39** | 39 |
| **WMC-3** | 3 | **WMC-40** | 40 |
| **WMC-4** | 4 | **WMC-41** | 41 |
| **WMC-5** | 5 | **WMC-42** | 42 |
| **WMC-6** | 6 | **WMC-43** | 43 |
| **WMC-7** | 7 | **WMC-44** | 44 |
| **WMC-8** | 8 | **WMC-45** | 45 |
| **WMC-9** | 9 | **WMC-46** | 46 |
| **WMC-10** | 10 | **WMC-73** | 73 |
| **WMC-11** | 11 | **WMC-81** | 81 |
| **WMC-12** | 12 | **WMC-104** | 104 |
| **WMC-13** | 13 | **WMC-1-33** | 1-33 |
| **WMC-14** | 14 | **WMC-34-66** | 34-66 |
| **WMC-15** | 15 | **WMC-67-99** | 67-99 |
| **WMC-16** | 16 | **WMC-100-124** | 100-124 |
| **WMC-17** | 17 | **WMC--** | -- |
| **WMC-18** | 18 | **WMC-A** | A |
| **WMC-19** | 19 | **WMC-B** | B |
| **WMC-20** | 20 | **WMC-C** | C |
| **WMC-21** | 21 | **WMC-D** | D |
| **WMC-22** | 22 | **WMC-E** | E |
| **WMC-23** | 23 | **WMC-F** | F |
| **WMC-24** | 24 | **WMC-G** | G |
| **WMC-25** | 25 | **WMC-H** | H |
| **WMC-26** | 26 | **WMC-I** | I |
| **WMC-27** | 27 | **WMC-N** | N |
| **WMC-28** | 28 | **WMC-S** | S |
| **WMC-29** | 29 | **WMC-W** | W |
| **WMC-30** | 30 | **WMC-X** | X |
| **WMC-31** | 21 | **WMC-Y** | Y |
| **WMC-32** | 32 | **WMC-Z** | Z |
| **WMC-35** | 35 | **WMC-A-Z** | A-Z |
| **WMC-36** | 36 | | |
| **WMC-33** | 33 | | |
| **WMC-34** | 34 | | |

# Voltage Markers

## VM SERIES





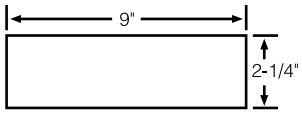



## FEATURES

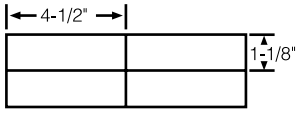
- Pressure-sensitive vinyl markers for marking power lines, conduit bus, fuse boxes, switches and other electrical equipment, stocked in three convenient sizes.
- Standard Carton Quantity of 25.
- Black lettering on orange background.

## STYLES

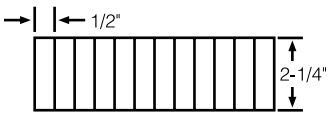
Style A



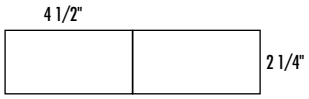

Style B




Style C




Style D




| CAT. NO. | SYMBOL | CAT. NO. | SYMBOL |
|---|---|---|---|
| **VM-A-3** | 120 Volts | **VM-B-32** | Three Phase |
| **VM-A-4** | 208 Volts | **VM-B-35** | 120V to 208V |
| **VM-A-5** | 220 Volts | **VM-B-36** | 120V to 240V |
| **VM-A-7** | 240 Volts | **VM-B-37** | 277V to 480V |
| **VM-A-9** | 277 Volts | **VM-B-48** | Danger High Voltage |
| **VM-A-11** | 440 Volts | **VM-B-49** | 24 Volts |
| **VM-A-12** | 460 Volts | **VM-C-1** | 110 Volts |
| **VM-A-13** | 480 Volts | **VM-C-3** | 120 Volts |
| **VM-A-15** | 600 Volts | **VM-C-4** | 208 Volts |
| **VM-A-18** | 2400 Volts | **VM-C-5** | 220 Volts |
| **VM-A-19** | 4160 Volts | **VM-C-7** | 240 Volts |
| **VM-A-20** | 4800 Volts | **VM-C-9** | 277 Volts |
| **VM-A-25** | 12470 Volts | **VM-C-11** | 440 Volts |
| **VM-A-27** | 13200 Volts | **VM-C-12** | 460 Volts |
| **VM-A-28** | 13800 Volts | **VM-C-13** | 480 Volts |
| **VM-A-30** | Single Phase | **VM-C-15** | 600 Volts |
| **VM-A-32** | Three Phase | **VM-C-19** | 4160 Volts |
| **VM-A-35** | 120V to 208V | **VM-C-20** | 4800 Volts |
| **VM-A-36** | 120V to 240V | **VM-C-25** | 12470 Volts |
| **VM-A-37** | 277V to 480V | **VM-C-30** | Single Phase |
| **VM-A-48** | Danger High Voltage | **VM-C-32** | Three Phase |
| **VM-A-49** | 24 Volts | **VM-C-35** | 120V to 208V |
| **VM-B-1** | 110 Volts | **VM-C-36** | 120V to 240V |
| **VM-B-3** | 120 Volts | **VM-C-37** | 277V to 480V |
| **VM-B-4** | 208 Volts | **VM-C-48** | Danger High Voltage |
| **VM-B-5** | 220 Volts | **VM-C-49** | 24 Volts |
| **VM-B-7** | 240 Volts | **VM-D-48** | Danger High Voltage |
| **VM-B-9** | 277 Volts | | |
| **VM-B-13** | 480 Volts | | |
| **VM-B-15** | 600 Volts | | |
| **VM-B-27** | 13200 Volts | | |
| **VM-B-28** | 13800 Volts | | |
| **VM-B-30** | Single Phase | | |

LOCKOUT / TAGOUT

# Self-Adhesive Labels and Spiral Wrap

VL, DSS, SR SERIES




## FEATURES

- Self-adhesive labels are sub-surface printed polyester labels.
- Rigid signs are available in either polycarbonate or polyester material.

**CAUTION**

In Accordance with OSHA Standard 1910.147, All Equipment, Machines and Processes Shall Be Locked Out Prior to Servicing. Lockout Procedures are Posted in the Main Operating Area and/or by the Main Energy Source of Each Machine. If You Have any Questions About the Lockout Procedures, Please See Your Supervisor or the Safety Director. This Standard Will Be Strictly Enforced.

| CAT. NO. | LEGEND | SIZE (IN.) | STD. CTN. QTY. |
|---|---|---|---|
| **VL-4** | Remove All Doubt. Lock it Out. | 2 1/4 x 4 1/2 | 25 |
| **VL-7** | Warning Potential Arc-Flash Hazards Exist While Working on this Energized Equipment | 2 1/4 x 4 1/2 | 25 |
| **DSS-5** | High Voltage | 10 x 14 | 25 |
| **DSS-6** | High Voltage Keep Out | 10 x 14 | 25 |

## SPIRAL WRAP

- Permits flexible routing of cable harnesses while forming a neat, protective bundle.
- Twists on easily and allows lead-outs at any point.

**POLYETHYLENE**

- For general indoor use with good resistance to ordinary solvents and abrasion.

**UV POLYETHYLENE**

- Ultraviolet resistance for general outdoor use with good resistance to ordinary solvents and abrasion.

**NYLON**

- For use in wider temperature ranges with high resistance to abrasion and good solvent resistance.



| CAT. NO. | COLOR | MATERIAL | O.D. | I.D. | BUNDLE RANGE | LENGTH (FT.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **SRPE-250** | Natural | Polyethylene | 0.236 | 0.157 | 0.157 - 1.97 | 100 | 1 |
| **SRPE-375** | Natural | Polyethylene | 0.393 | 0.295 | 0.295 - 2.36 | 100 | 1 |
| **SRPE-500** | Natural | Polyethylene | 0.472 | 0.354 | 0.354 - 2.56 | 100 | 1 |
| **SRPE-2500** | Black | UV Polyethylene | 0.236 | 0.157 | 0.157 - 1.97 | 100 | 1 |
| **SRPE-3750** | Black | UV Polyethylene | 0.393 | 0.295 | 0.295 - 2.36 | 100 | 1 |
| **SRPE-5000** | Black | UV Polyethylene | 0.472 | 0.354 | 0.354 - 2.56 | 100 | 1 |

# Detectable Underground Line and Barricade Tapes

## ULT, ULTD, BT SERIES









## FEATURES

### DETECTABLE UNDERGROUND LINE TAPE

- Consists of a minumum 5 mil overall thickness with no less than a 35 gauge solid aluminum foil core, which allows for easy detection. Specially formulated to resist degradation by elements normally encountered in soil. All printing is encased to avoid ink rub-off with environmentally safe ink. Custom lengends are available, contact NSi for details.

| CAT. NO. | COLOR | LEGEND | LENGTH (FT.) | WIDTH (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|
| **ULTD-327** | Red | Caution Buried Electric Line Below | 1000 | 3 | 8 |
| **ULTD-342** | Orange | Caution Buried Fiber Optic Line Below | 1000 | 3 | 8 |
| **ULTD-343** | Yellow | Caution Buried Communication Line Below | 1000 | 3 | 8 |
| **ULTD-626** | Yellow | Caution Buried Electric Line Below | 1000 | 6 | 4 |
| **ULTD-627** | Red | Caution Buried Electric Line Below | 1000 | 6 | 4 |
| **ULTD-636** | Orange | Caution Buried Telephone Line Below | 1000 | 6 | 4 |
| **ULTD-643** | Yellow | Caution Buried Communication Line Below | 1000 | 6 | 4 |

### BARRICADE TAPE

- Made of long lasting, non-adhesive polyethylene for exceptional quality, durability and performance. Used above ground to mark off hazards. Supplied in 1,000 ft. rolls.

### UNDERGROUND LINE TAPE

- Underground tapes are impervious to alkalines, acids and other soil components for the protection, location and identification of underground utility installations. Consists of a 4 mil overall thickness, inert 100 percent virgin low-density polyethylene plastic film formulated for underground use and environmentally safe ink. Custom legends are available, contact NSi for details.

1




2




| CAT. NO. | FIG. NO. | COLOR | LEGEND | USE | LENGTH (FT.) | WIDTH (IN.) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **BT-305** | 1 | Yellow | Caution | Above ground | 1000 | 3 | 8 |
| **BT-308** | 1 | Yellow | Caution Do Not Enter | Above ground | 1000 | 3 | 8 |
| **ULT-326** | 2 | Yellow | CautionBuried Electric Line Below | Underground | 1000 | 3 | 8 |
| **ULT-327** | 2 | Red | CautionBuried Electric Line Below | Underground | 1000 | 3 | 8 |
| **ULT-626** | 2 | Yellow | CautionBuried Electric Line Below | Underground | 1000 | 6 | 4 |
| **ULT-627** | 2 | Red | CautionBuried Electric Line Below | Underground | 1000 | 6 | 4 |


nsi


ck 136
eStop
TUMESCENT CAULK
PUTTY P
6" x 7" x 1/8" (15
RECTORSEAL® Metacaulk® Fire Rated P
cal boxes to reduce sound transmission and t
e walls restricting the passage of smoke, flame
Remove liner from one side of pad. Align with the side
the stud and adhere. Work pad to the opposite
(2) If wall membrane is in place, pack putty
n box and gypsum board slightly
d surface. If membrane is to
n, overlap front edge of
d around edges of box
fit around cond
bottom,
ply to
rireStop
PILLOW
2 x 4 x 8 inches (50 x 100 x 200 mm)
DO NOT OPEN OR TEAR PLASTIC

# FIRESTOP™

FIRESTOP™

# Residential & Commercial Caulk, Pillows & Putty Pads

## FS SERIES

## FEATURES

- See individual features for each product below.

1




2




3




4




5



## RATINGS

| CAT. NO. | FIG. NO. | DESCRIPTION | WEIGHT (OZ) | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | STD. CTN. QTY. |
|---|---|---|---|---|---|---|---|
| **FSIC-10** | 1 | FireStop™ Intumescent Caulk | 10 | – | – | – | 12 |
| **FS-814** | 2 | FireStop814™Residential and Commercial | 10 | – | – | – | 12 |
| **FS-136** | 3 | FireBlok136™ Residential Fire Block | 10 | – | – | – | 12 |
| **FSP** | 4 | Firestop Pillows | – | 8.000 | 4.000 | 2.000 | 25 |
| **FSPP-1** | 5 | Fire Rated Putty Pad | – | 6.000 | 7.000 | – | 20 |
| **FSPP-2** | 5 | Fire Rated Putty Stick Pad | – | 7.000 | 7.000 | – | 20 |

## FireStop™ INTUMESCENT CAULK

FireStop™ Intumescent Caulk is water-based, single component elastomeric sealant intended for use as a firestop system component. It forms an economical yet durable, flexible and watertight bond with most construction materials. It is applied independently for "caulk and walk" systems or over mineral wool or backer rod to seal the openings where building services such as pipes and cables penetrate fire rated assemblies. Will not crack or crumble as the physical properties remain stable over time. It tools easily and cleans up with water. May be applied by caulking gun or trowel. ASTM–E 814 and UL 1479.






## FireStop814™ CAULK

FireStop814™ Fire stopping caulk is a single component, non-combustible, non-intumescent material for residential and commercial applications. Colored red for easy inspection, FireStop814 creates an effective barrier against flames, smoke, and toxic gasses and has superior adhesion and gunnability. FireStop814 is for use in annular spaces around wires and pipes, in one- and two-hour fire rated assemblies. It restores the integrity of firestops in residential and commercial construction. Meets UL 1479/ ASTM-E814 standards.

## FireBlock136™ CAULK

FireBlock136™ Fire-blocking caulk is a single component, non-combustible material for residential applications. Colored red for easy inspection, FireBlock136 creates an effective barrier against flames, smoke, and toxic gasses and has superior adhesion and gunnability. FireBlock136 is for use in annular spaces around wires, pipes, ducts, vents and other penetrating items at ceiling and floor openings; and room to room in wood and steel frame constructions. It restores the integrity of fireblocks in one and two family construction. Exceeds ASTM-E136 standards for fireblocking residential requirements prescribed by all major-model building codes, and also meets or exceeds requirements of UBC, BOCA, SBC, IRC, NYS and MA codes. Meets UL 1479/ ASTM-E136 standards.

## FIRE RATED PUTTY PADS

NSi Fire Rated Putty is a moldable non-curing, one-component fire rated material for through penetration fire stop systems. In the event of a fire, Putty will expand when exposed to fire, forming an insulating char, which prevents the spread of flames, smoke, gas and water through penetration openings. Installation is easy as there are no additives, there is no mixing and no curing time is required. The putty is applied by hand and adheres to all common building surfaces. Putty can be installed in confined or occupied spaces since there are no volatile solvents or asbestos fillers.
NSi Putty systems are rated up to 3 hours in accordance with ASTM E 814, UL 1479 and ULC/CAN4-S115-M standards. NSi Fire Rated Putty is available in sticks or pads. Moldable Putty Pads are available in two sizes, 6″ x 7″ x 1/8″ or 7″ x 7″ x 1/8″, and are classified as a wall opening protective material. Use them to protect metal electrical cabinets, outlet boxes and mechanical cabinets. STC Rating 49.

## FireStop™ PILLOWS

FireStop™ Pillows are a single step firestop system component. Intended for wall and/or floor openings through fire separations where temporary or permanent firestops are required. They are ideal where cable retrofitting is frequent and anticipated. Quick and clean single product installation. Self-supporting – no wire lath or mesh is required. They are to be packed tightly into the voids between penetrating items and the perimeter of the opening. During a fire, the intumescent component within each pillow dramatically expands to seal the opening from fire, thereby maintaining the integrity of the fire separation. FireStop Pillows consist of an intumescent layer sandwiched between non-combustible insulation, all enclosed in a hermetically sealed polyethylene shell. No sealant or putty is required. Easy to install, easy to remove – a quick and clean single product installation. ASTM E 814 and UL 1479.

## CONDUIT AND EMT

| MAX.PEN. DIA. | RATING (HR.) | MAX. OPENING | FLOOR OR WALL SYSTEM | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS | SYSTEM NO. | PAGE NO. |
|---|---|---|---|---|---|---|---|
| 6 in. conduit & EMT or smaller | 2 | 0 in to 7/8 in. annulus | Floor - concrete (2-1/2 in. min.), Wall - concrete, concrete block or precast units | NSi FireStop Intumescent Caulk | Min. 1/4 in. thick within annulus flush with top of floor or both surfaces of wall | C-AJ-1511 | 212 |
| 6 in. conduit & EMT or smaller | 2 | 0 in. to 1/2 in. annulus | Wall – gypsum board | NSi FireStop Intumescent Caulk | Min. 1-1/4 in. thick within annulus flush with both surfaces of wall | W-L-1349 | 212 |
| 6 in. conduit & EMT or smaller | 1 | 1/4 in. to 1/2 in. annulus | Wall – gypsum board | NSi FireStop Intumescent Caulk | Min. 5/8 in. thick within annulus flush with both surfaces of wall | W-L-1351 | 213 |
| 3 in. conduit & EMT or smaller | 2 | 0 in. to 1-3/4 in. annulus | Wall – gypsum board | NSi FireStop Intumescent Caulk | Min. 1-1/4 in. thick within annulus flush with both surfaces of wall | W-L-1348 | 214 |
| 4 in. conduit & EMT or smaller | 1 | 0 in. to 1/2 in. annulus | Floor – lumber Ceiling – gypsum board | NSi FireStop Intumescent Caulk | Min. 3/4 in. thick within annulus on top of floor Min. 5/8 in. thick within annulus on bottom surface of ceiling | F-C-1128 | 214 |

## CABLE LARGER OPENINGS

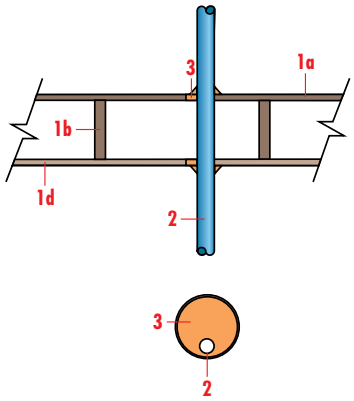
| TYPE OF PENETRATION | RATING (HR.) | MAX. OPENING | FLOOR OR WALL SYSTEM | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS | SYSTEM NO. | PAGE NO. |
|---|---|---|---|---|---|---|---|
| Coaxial, fiber optic & 24 AWG | 3 | 288 sq. in. | Floor – concrete, Wall - concrete or concrete block | NSi FireStop Pillows | Installed with 8 in. dimension projecting through floor or wall & centered within opening | C-AJ-4073 | 215 |
| Coaxial, fiber optic, 24 AWG & data cable | 3 | 288 sq. in. | Floor – concrete, Wall – concrete or concrete block | NSi FireStop Pillows | Installed with 8 in. dimension projecting through floor or wall & centered within opening | C-AJ-4074 | 216 |
| Cables | 1 | 0 in. to. 1/4 in annulus | Floor – lumber Ceiling – gypsum board | NSi FireStop Intumescent Caulk | Min. 1-1/4 in. thick within annulus on top of floor Min. 1/2 in. thick within annulus on bottom surface of ceiling | F-C-3084 | 216 |

## NON-METALLIC CONDUIT

| MAX.PEN. DIA. | RATING (HR.) | MAX. OPENING | FLOOR OR WALL SYSTEM | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS | SYSTEM NO. | PAGE NO. |
|---|---|---|---|---|---|---|---|
| 2, PVC, CPVC, ABS & Rigid conduit or smaller | 1 | 1/4 in. | Floor – lumber Ceiling - gypsum board | NSi FireStop Intumescent Caulk | Min. 3/4 in. thick within annulus on top of floor. Min. 5/8 in. thick within annulus on bottom surface of ceiling | F-C-2297 | 215 |

## UL SYSTEM NO. F-C-3084

F Rating – 1 hr., T Ratings – 3/4 hr. and 1 hr. (See Item 2)




1. **Floor-Ceiling Assembly –** The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design No. L512, L513 or L514 in the UL Fire Resistance Directory and shall include the following construction features:
   a) Flooring System – Lumber or minimum 1/2 in. plywood subfloor with lumber or minimum 3/4 in. plywood finish floor or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5/8 in.
   b) Wood Joists – Nom. 2 x 10 in. lumber joists, spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped.
   c) Furring Channels (not shown) – Resilient galv. steel furring installed perpendicular to wood joist between wallboard and wood joist and spaced maximum 24 in. oc.
   d) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Wallboard attached to wood joists or furring channels as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 5/8 in.

2. **Cables –** One cable to be installed either eccentrically or concentrically in opening with annular space between the cable and periphery of opening of min. 0 in. (point of contact) to maximum 14 in. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types of cables may be used:
   a) Maximum 3/C (with ground) No. 12 AWG (or smaller) with polyvinyl chloride (PVC) insulation and jacket.
   b) Maximum 3/C (with ground) No. 14 AWG (or smaller) with PVC jacketed aluminium or steel clad, Type RW90.
   c) Type RG6U coaxial cable with fluorinated ethylene propylene insulation and jacket.
   d) Maximum 2/C (with ground) No. 14 AWG (or smaller), type NM90, with nylon jacket.
   e) Maximum 8/C No. 24 AWG (or smaller), type CMR MPR, with polyvinyl chloride (PVC) insulation and jacket.

   The T Rating of the firestop system is dependent upon the type of cable used, as tabulated below:

| CABLE TYPE | T-RATING (HR.) |
|---|---|
| a, b, c and e | 1 |
| d | 3/4 |

3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. On top of assembly, a minimum 1-1/4 in. thickness of fill material applied within the annulus on top surface of floor. On bottom assembly, a minimum 1/2 in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum 1/2 in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.

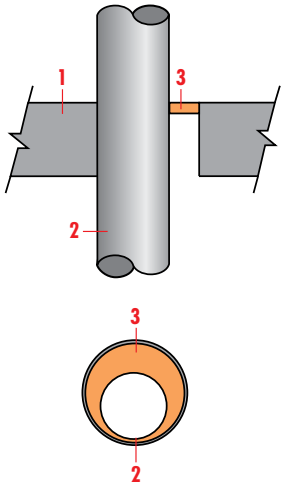
## UL SYSTEM NO. C-AJ-1511

F Rating – 2 hr., T Rating – 0 hr.

1. **Floor or wall assembly –** Minimum 2 1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor. Floor may also be constructed of any minimum 6 in. thick UL Classified hollow-core precast concrete units. Wall may also be constructed of any UL Classified concrete blocks. Maximum diameter of opening is 24 7/8 in. Maximum diameter of opening in floors constructed of hollow-core is 7 in. See Concrete Blocks (CAZT) or Precast Concrete Units (CFTV) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space between the pipe or conduit and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 7/8 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
   a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
   b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
   c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
   d) Copper pipe or tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.

3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. Minimum 1/2 in. thickness of caulk applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors constructed of hollow-core precast concrete units, fill material installed symmetrically on both sides of floor. Additional material installed to form a minimum 1/4 in. crown bead at the point contact location between the pipe and periphery of the opening. For vertical installations, sealant to be applied symmetrically on both sides of wall.



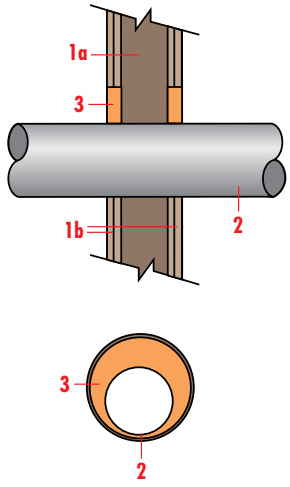

## UL SYSTEM NO. W-L-1349

F Rating – 2 hr., T Rating – 0 hr.

1. **Wall Assembly –** The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   b) Wallboard, Gypsum – 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 6 5/8 in.

2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1/2 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
   a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
   b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
   c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
   d) Copper Tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
   e) Copper Pipe – Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.

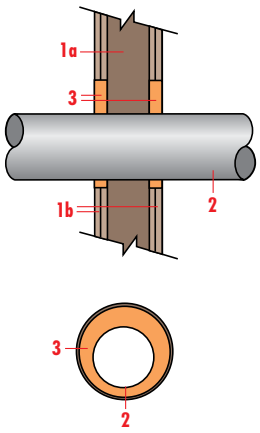
3. **Fill, void or cavity material –** Sealant – NSi FireStop Intumescent Caulk. Minimum 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wall board, a minimum 1/2 in. diameter bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.



## UL SYSTEM NO. W-L-1351

F Rating – 1 hr., T Rating – 0 hr.

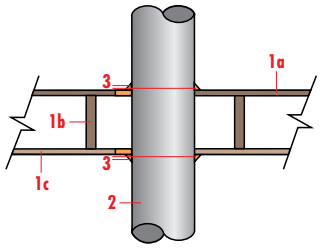
1. **Wall Assembly –** The 1 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   b) Wallboard, Gypsum – 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 24 3/4 in. for steel stud walls. Maximum diameter opening is 14 1/2 in. for wood stud walls.
2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 1/4 in. to a maximum of 1/2 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
   a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
   b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
   c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
   d) Copper Tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
   e) Copper Pipe – Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. **Fill, void or cavity material –** Sealant – NSi FireStop Intumescent Caulk. Minimum 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.




## UL SYSTEM NO. W-L-1128

F Rating – 1 hr., T Rating – 0 hr.

1. **Floor-Ceiling Assembly –** The 1 hr. fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory and shall include the following construction features:
   a) Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5 in.
   b) Wood Joists – Nom. 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and with ends firestopped.
   c) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Wallboard nailed to wood joists.
2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1/2 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
   a) Steel pipe – Nom. 4 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
   b) Iron pipe – Nom. 4 in. diameter (or smaller) cast or ductile iron pipe.
   c) Conduit – Nom. 4 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
   d) Copper Tubing – Nom. 4 in. diameter (or smaller) Type L (or heavier) copper tubing.
   e) Copper Pipe – Nom. 4 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. Minimum 3/4 in. thickness of fill material applied within the annulus on top surface of floor. Minimum 5/8 in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum 1/2 in. thick crown is formed around the through penetrant on top surface of floor-ceiling assembly.



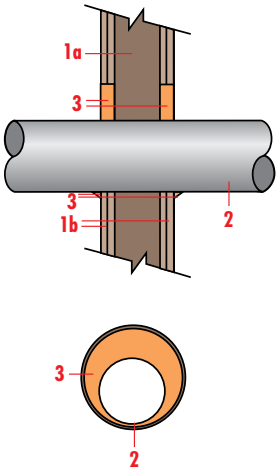
## UL SYSTEM NO. W-L-1348

F Rating – 2 hr., T Rating – 0 hr.

1. **Wall Assembly –** The 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. with nom. 2 x 4 in. lumber end plates and cross braces. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item, such that when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   b) Wallboard, Gypsum – 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 5 in.

2. **Through Penetrant –** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
   a) Steel pipe – Nom. 3 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
   b) Conduit – Nom. 3 in. diameter (or smaller) steel electrical metallic tubing or galv. steel conduit.
   c) Copper Tubing – Nom. 3 in. diameter (or smaller) Type L (or heavier) copper tubing.
   d) Copper Pipe – Nom. 3 in. diameter (or smaller) Regular (or heavier) copper pipe.

3. **Fill, void or cavity material –** Sealant – NSi FireStop Intumescent Caulk. Minimum 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wall board, a minimum 3/8 in. diameter bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.







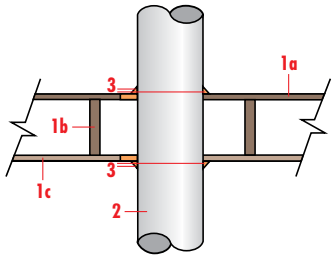
## UL SYSTEM NO. F-C-2297

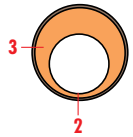
F Rating – 1 hr., T Rating – 0 hr.

1. **Floor-Ceiling Assembly –** The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L505, L511, or L536 Designs in the UL Fire Resistance Directory and shall include the following construction features:
   a) Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of opening is 2.875 in.
   b) Wood Joists – Nom. 2 x 10 in. lumber joists spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped
   c) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 2.875 in.

2. **Through Penetrant –** One nonmetallic pipe or conduit to be installed approximately midway between wood joists and centered within the firestop system. Diameter of openings hole-sawed through flooring system and one layer through gypsum wallboard ceiling to be nom. 1/2 in. larger than the outside diameter of through penetrant. Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
   a) Polyvinyl Chloride (PVC) Pipe – Nom. 2 in. diameter (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
   b) Acrylonitrile Butadiene Styrene (ABS) Pipe – Nom. 2 in. diameter (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
   c) Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom. 2 in. diameter (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
   d) Rigid Nonmetallic Conduit – Nom. 2 in. diameter (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. Minimum 3/4 in. thickness of fill material applied within the annulus on top surface of floor. Minimum 5/8 in. thickness of fill material applied within annulus on bottom surface of ceiling or top plate of chase wall assembly. Additional fill material to be installed such that a minimum 1/8 in. thick crown is formed around the through penetrant on top surface of floor-ceiling assembly.






## UL SYSTEM NO. C-A-4073

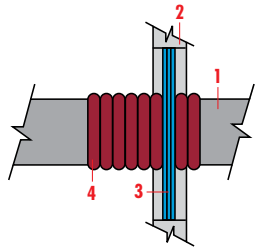
F Rating – 3 hr., T Rating – 1½ hr.

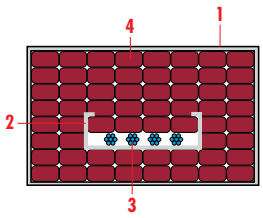
1. **Floor or wall assembly –** Minimum 5 in. thick reinforced normal weight concrete. Wall may also be constructed of any UL Classified concrete blocks. Maximum area of opening is 288 sq. in. with a maximum dimension of 24 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray –** Maximum 12 in. wide by maximum 3 ⅝ in. deep (maximum 3 in. deep loading depth) trough type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048 in.) thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048 in.) thick ventilated type rungs spaced 10 in. oc. Maximum one cable tray to be installed either concentrically or eccentrically within the firestop
system. The annular space between the cable tray and the periphery of opening shall be a minimum of 1½ in. to a maximum of 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables –** Maximum four individual cable bundles, each containing a maximum seven cables, to be installed within cable tray. Maximum diameter of individual cable bundles shall be 2 in. Cable bundles to be spaced a minimum 1½ in. to a maximum 3 in. oc. Any combination of the following types and sizes of cables may be used:
   a) Maximum 3 pair No. 24 AWG (or smaller) copper conductor cables with polyvinyl chloride (PVC) insulation and jacket.
   b) Maximum 2 fiber 62.5/125 uM fiber optic cable with PVC insulation and jacket.
   c) Maximum RG/U (or smaller) coaxial copper conductor cable with fluorinated ethylene insulation and jacket materials.

4. **Fill, Void or Cavity Materials –** NSi FireStop Pillows. Maximum 8 in. long x 4 in. wide x 2 in. deep thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.




## UL SYSTEM NO. C-AJ-4074

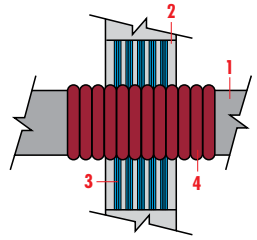
(For Horizontal or Vertical Separations)
F Rating – 3 hr., T Rating – 0 hr.

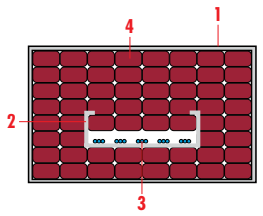
1. **Floor or wall assembly –** Minimum 4½ in. thick reinforced lightweight (100 pcf) concrete. Maximum size of opening is 288 sq. in. with maximum dimension of 24 in. Wall may also be constructed of any UL Classified concrete blocks. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray –** Maximum 12 in. wide by maximum 3 ⅝ in. deep (maximum 3 in. deep loading depth) trough type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048 in.) thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048 in.) thick ventilated type rungs spaced 10 in. oc. Maximum one cable tray to be installed either concentrically or eccentrically within the firestop system. The annular space between the cable tray and the periphery of opening shall be a minimum of 1½ in. to a maximum of 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.

3. **Cables –** Aggregate cross-sectional area of cables in cable tray to be 25% of the cross-sectional area of the cable tray based on a maximum 3 in. cable loading within the cable tray. Any combination of the following types and sizes of cables may be used:
   a) Maximum 287 lengths of cables, each with 3 pair No. 24 AWG Type D telephone cables with PVC insulation and jacket.
   b) Maximum 24 lengths of double stranded fiber optic cables, ⅛ in. diameter with PVC insulation and jacket.
   c) Maximum 12 lengths of coaxial cable, ¼ in. diameter, 22 AWG solid copper conductor with polyethylene insulation and PVC jacket.
   d) Maximum 12 lengths of data cable, Alcatel 380100, E107890, 24 AWG CMR, with PVC jacket.

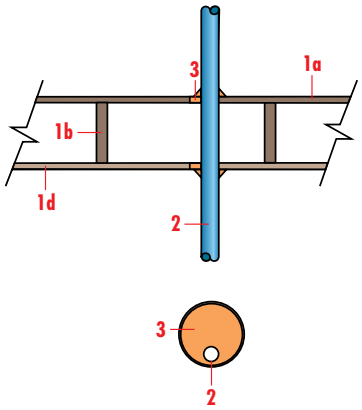
4. **Fill, Void or Cavity Materials –** NSi FireStop Pillows. Maximum 8 in. long x 4 in. wide x 2 in. deep thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.



## UL SYSTEM NO. F-C-3084

F Rating – 1 hr., T Ratings – 3/4 hr. and 1 hr. (See Item 2)




1. **Floor-Ceiling Assembly –** The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design No. L512, L513 or L514 in the UL Fire Resistance Directory and shall include the following construction features:
   a) Flooring System – Lumber or minimum 1/2 in. plywood subfloor with lumber or minimum 3/4 in. plywood finish floor or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5/8 in.
   b) Wood Joists – Nom. 2 x 10 in. lumber joists, spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped.
   c) Furring Channels (not shown) – Resilient galv. steel furring installed perpendicular to wood joist between wallboard and wood joist and spaced maximum 24 in. oc.
   d) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Wallboard attached to wood joists or furring channels as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 5/8 in.

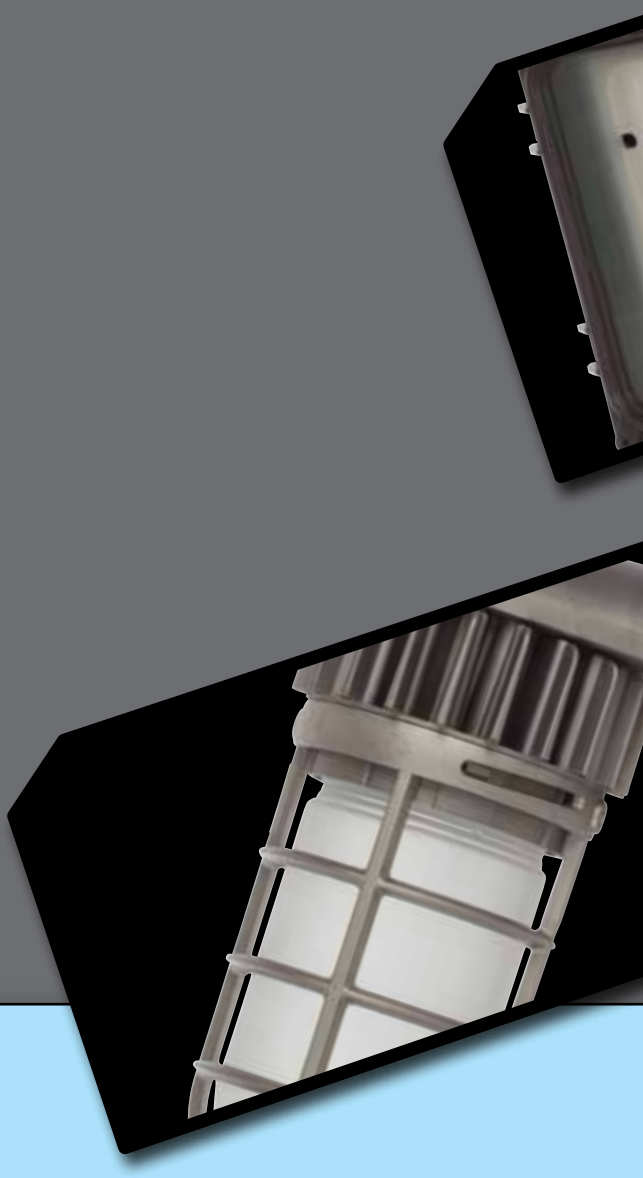
2. **Cables –** One cable to be installed either eccentrically or concentrically in opening with annular space between the cable and periphery of opening of min. 0 in. (point contact) to maximum 14 in. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types of cables may be used:
   a) Maximum 3/C (with ground) No. 12 AWG (or smaller) with polyvinyl chloride (PVC) insulation and jacket.
   b) Maximum 3/C (with ground) No. 14 AWG (or smaller) with PVC jacketed aluminium or steel clad, Type RW90.
   c) Type RG6U coaxial cable with fluorinated ethylene propylene insulation and jacket.
   d) Maximum 2/C (with ground) No. 14 AWG (or smaller), type NM90, with nylon jacket.
   e) Maximum 8/C No. 24 AWG (or smaller), type CMR MPR, with polyvinyl chloride (PVC) insulation and jacket.

The T Rating of the firestop system is dependent upon the type of cable used, as tabulate below:

| CABLE TYPE | T-RATING (HR.) |
|---|---|
| a, b, c and e | 1 |
| d | 3/4 |

3. **Fill, void or cavity material –** NSi FireStop Intumescent Caulk. On top of assembly, a minimum 1 1/4 in. thickness of fill material applied within the annulus on top surface of floor. On bottom assembly, a minimum 1/2 in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum 1/2 in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.







# LIGHTING

LED LIGHTING

# Wallpack LED 13W PC

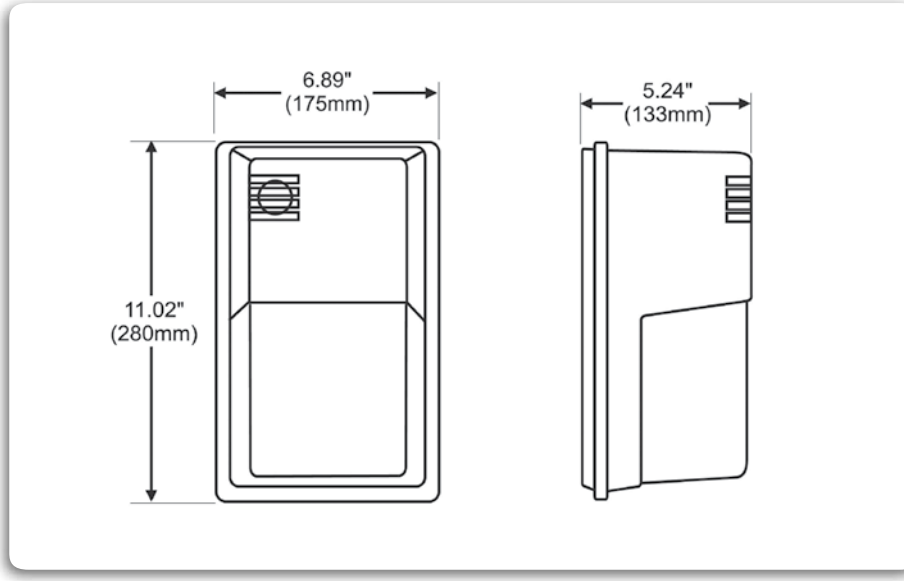
WP13LEDPC



## FEATURES

- Die cast aluminum body with polycarbonate housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Quick mount installation.
- Color temperature - 4700k.
- High impact resistant lens with built-in photocontrol.
- Equipped with photocontrol.

Ruggedly designed prismatic wall lighter that effectively diffuses and distributes the highly efficient LED output to maximizing spread and utilization while minimizing wattage consumption. Ideal for energy retrofit rebates when replacing 70W or lower Metal Halide or HPS units.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP13LEDPC** | 13 | 615lm** | 4700K | 1000 | 120-277VAC | 70+ | -30 °C | 50W - 70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.





nsi INDUSTRIES

LED LIGHTING

# Small Wallpack LED 12W

WP12LED

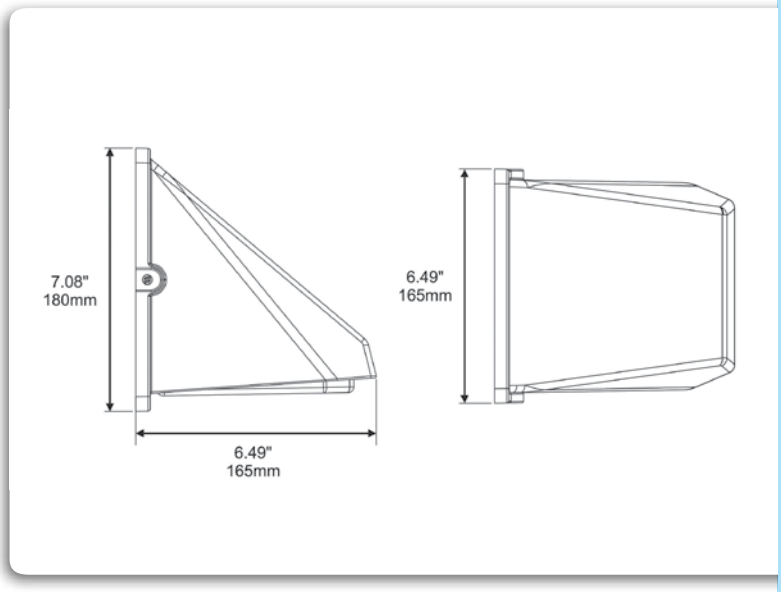




## FEATURES

- Die cast aluminum body with polycarbonate cover.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Quick mount installation.
- Color temperature - 5000k.
- High impact polycarbonate/diffuser.
- Ip65 rated enclosure.

This luminaire combines function and design with built-in heat sinks on top of the LED engine. This luminaire will provide effective lighting for a long time. Brilliant light illumination from the prismatic polycarbonate cover. Efficient and versatile, this fitting is suitable for both indoor and outdoor use. Ideal for apartments, motels and property maintenance.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP12LED** | 12 | 828lm** | 5000K | 300 | 277VAC | 70+ | -30 °C | 50W-70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Wallpack LED 36W

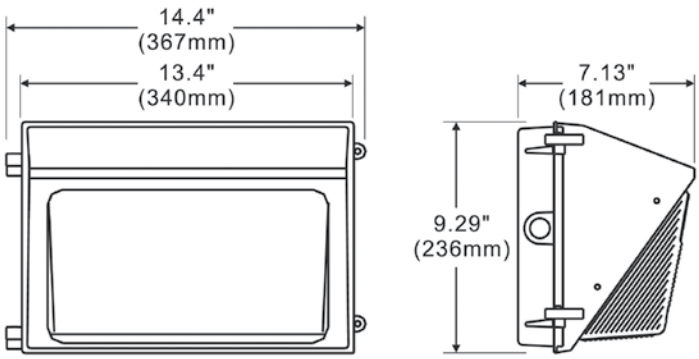
WP36LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant borosilicate glass lens.
- New generation led module.

Utilizing the latest generation of LED and chip technology, this uniquely designed wall-pack delivers a similar light output to a 100-150W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark Sky Compliant.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP36LED** | 36 | 2520lm** | 4700K | 950 | 120-277VAC | 70+ | -30 °C | 100W - 150W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.





nsi INDUSTRIES

LED LIGHTING

# Wallpack LED 38W

WP38LED

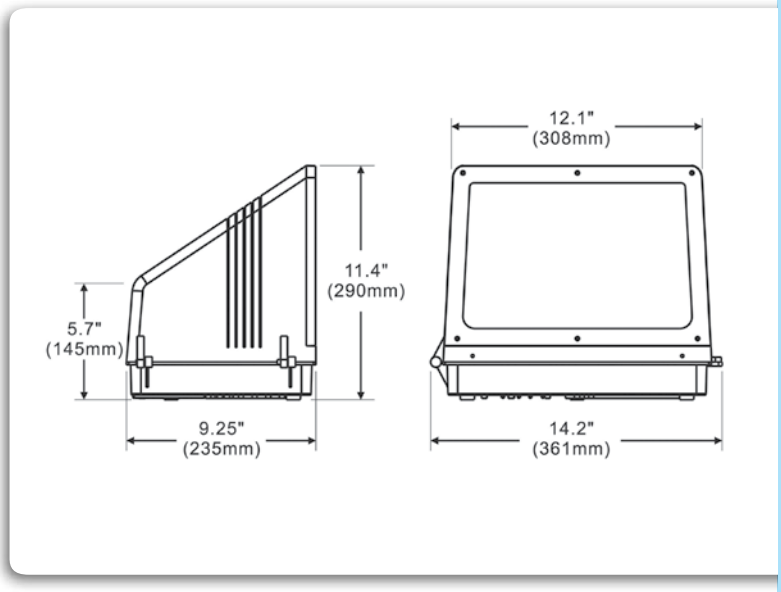




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant tempered glass lens.
- IP65 rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 150W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP38LED** | 38 | 2752lm** | 4700K | 700 | 120-277VAC | 70+ | -30 °C | 150W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Wallpack LED 68W

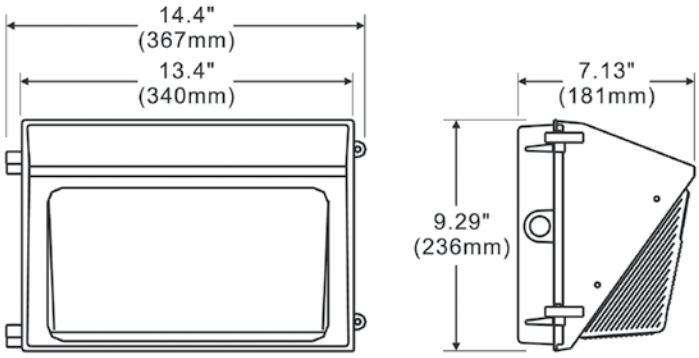
## WP68LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant borosilicate glass lens.
- IC protection.
- New generation LED module.

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 150-200W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP68LED** | 68 | 4887lm** | 4700K | 950 | 120-277VAC | 70+ | -30 °C | 150W - 200W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.





nsi INDUSTRIES

LED LIGHTING

# Wallpack LED 77W

WP77LED

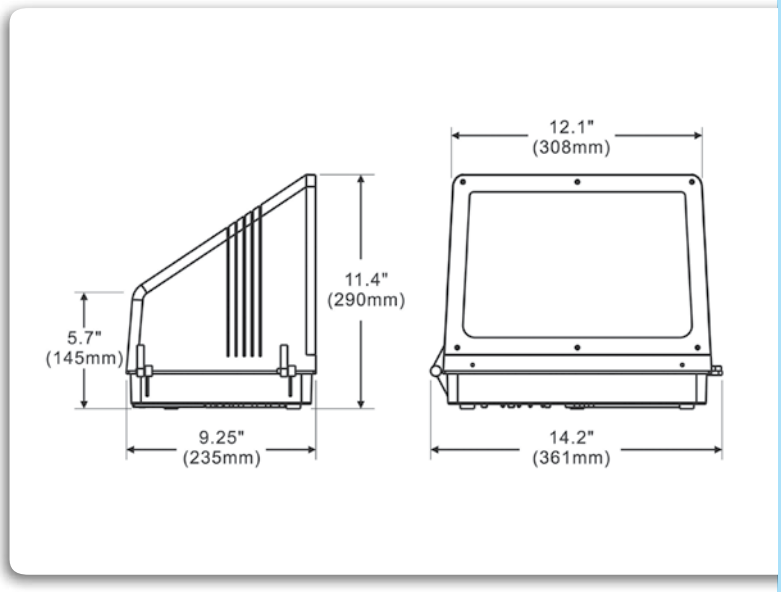




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700K.
- Heat & impact resistant tempered glass lens.
- IP65 rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 250W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP77LED** | 77 | 5036lm** | 4700K | 700 | 120-277VAC | 70+ | -30 °C | 250W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Medium LED 20W Flood Light

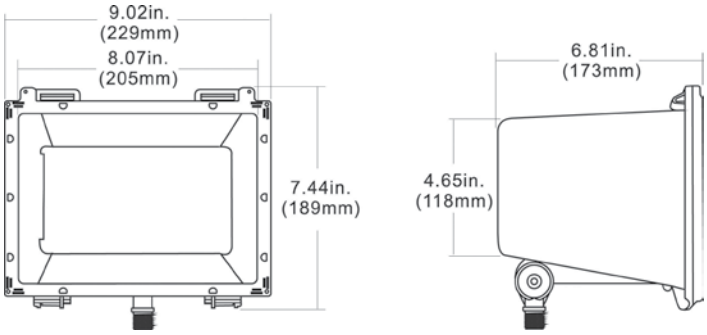
FL20LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC current controlled LED circuits.

Energy conserving powerful floodlight. Pro-environment, green, long life LED flood lighting. Adapting the most dependable LED light source, the fixture uses aluminum with a high heat conducting coefficient ensuring conduction of surface heat.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|
| **FL20LED** | 20 | 1588lm** | 4700K | 120-277VAC | 75+ | -30 °C | 70W-100W MH |

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CRI: Color Rendering Index.

LED LIGHTING

# Large LED 40W Flood Light

FL40LED

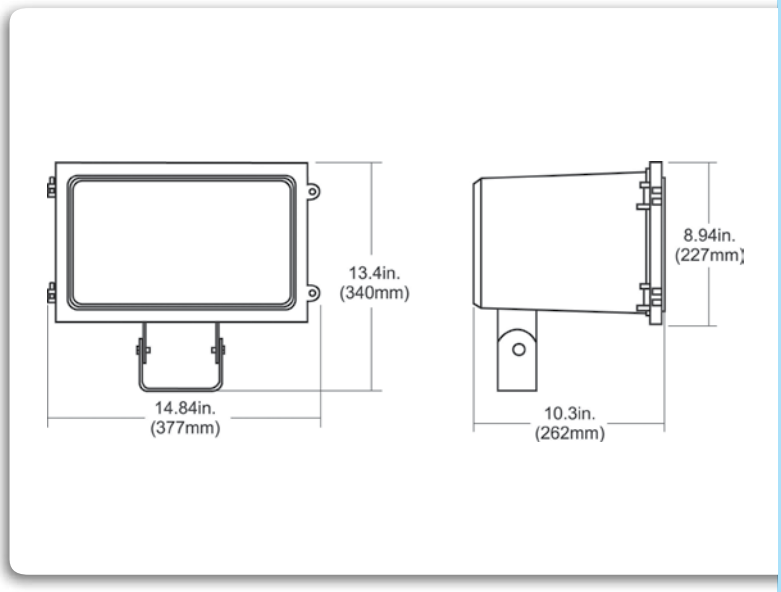




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC Current Controlled LED Circuits.

Energy conserving powerful floodlight. More light than a 150W halogen for about 1/7th the energy. Relamping once every 12~15 years instead of every 6 months. Perfect for hard-to-service locations. Rugged diecast design ensures LED's operate at optimum temperature for long life. Sealed against the environment for long reliable service life.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|
| **FL40LED** | 40 | 3176lm** | 4700K | 120-277VAC | 75+ | -30 °C | 150W-200W MH |

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CRI: Color Rendering Index.

LED LIGHTING

# Security Light LED 35W

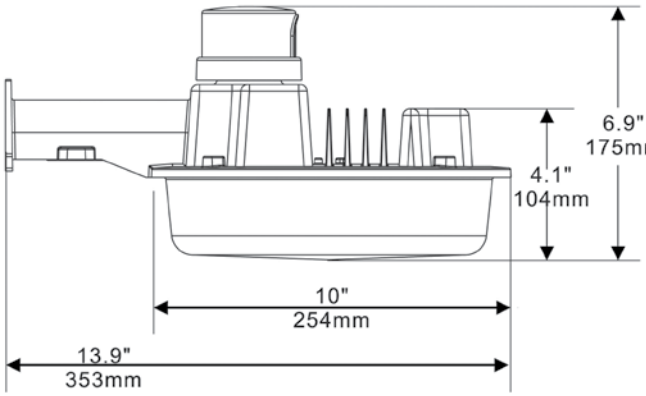
DTD35LED



## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Impact resistant lens.
- Photocontrol included.

The Dusk-to-Dawn Fixture of the future is here. Utilizing a single source LED, this dusk-to-dawn provides prismatic-designed light output for any environment. It comes with NEMA approved photocontrol which, when used with LED provides significant power savings. Maintaining all the strengths of the traditional dusk-to-dawn fixtures (such as installation brackets and arms) while employing the latest generation of LEDs, this LED dusk to dawn will last for years to come.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **DTD35LED** | 35 | 2650lm** | 5000K | 950 | 120VAC | 70+ | -30 °C | 100W-150W MH |

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CRI: Color Rendering Index.





nsi INDUSTRIES

LED LIGHTING

# Vaportite LED 13W Wall Mount

VTW13LED

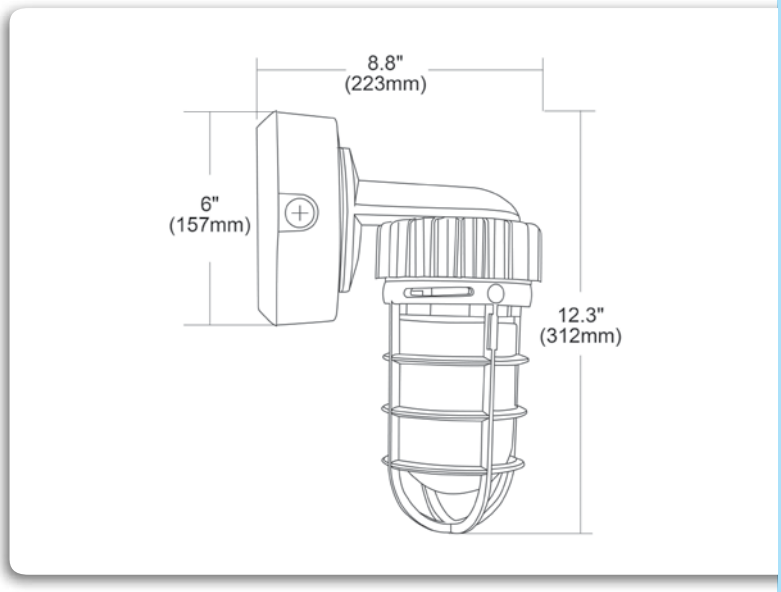




## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Heat & impact resistant tempered glass lens.
- IP65 rated & IC protection.
- DLC Listed (Design Lights Consortium).

Heavy duty vapor-proof LED light is built to last. With industrial-grade rubber gaskets as sealants and automobile grade aluminum, this LED light is a beacon. With a COB LED inside, it provides performance lighting while utilizing very little power. Die-cast guard on the outside of the glass protects the high power LED. Fixture can be used in warehouse, docks, restaurants, and many other applications.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **VTW13LED** | 13 | 670lm** | 5000K | 700 | 120-277VAC | 70+ | -30 °C | 50W-70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Vaportite LED 13W Ceiling Mount

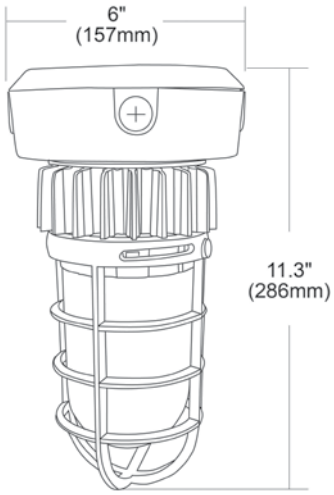
VTC13LED



## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 5000k.
- 1/2" Conduit.
- Plugs on all 4 sides.

Heavy duty vapor-proof LED light is built to last. With industrial-grade rubber gaskets as sealants and automobile grade aluminum, this LED light is a beacon. With a COB LED inside, it provides performance lighting while utilizing very little power. Die cast guard on the outside of the glass protects the high power LED. Fixture can be used in warehouse, docks, restaurants, and many other applications.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **VTC13LED** | 13 | 670lm** | 5000K | 700 | 120-277VAC | 70+ | -30 °C | 50W-70W MH |

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CRI: Color Rendering Index.



LED LIGHTING

# Wallpack LED 13W PC

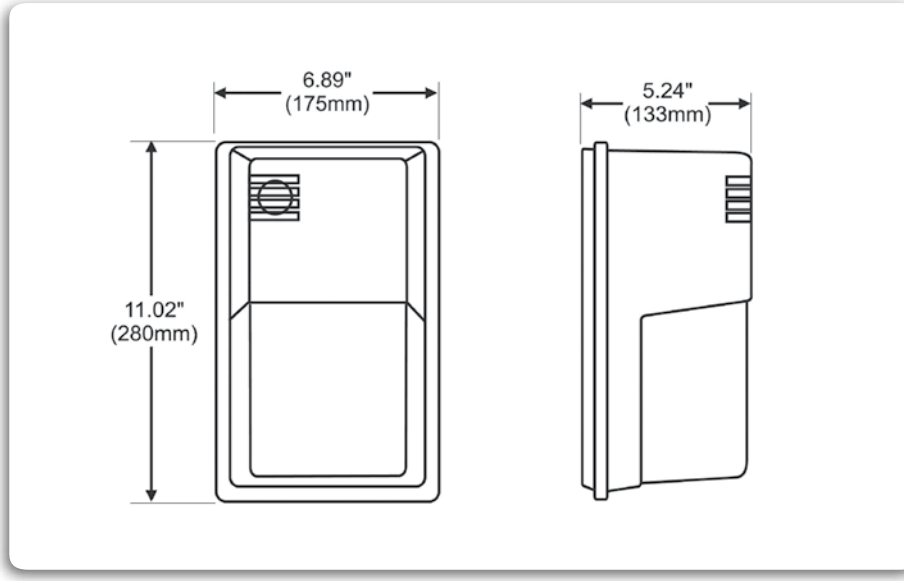
WP13LEDPC



## FEATURES

- Die cast aluminum body with polycarbonate housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Quick mount installation.
- Color temperature - 4700k.
- High impact resistant lens with built-in photocontrol.
- Equipped with photocontrol.

Ruggedly designed prismatic wall lighter that effectively diffuses and distributes the highly efficient LED output to maximizing spread and utilization while minimizing wattage consumption. Ideal for energy retrofit rebates when replacing 70W or lower Metal Halide or HPS units.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP13LEDPC** | 13 | 615lm** | 4700K | 1000 | 120-277VAC | 70+ | -30 °C | 50W - 70W MH |

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CRI: Color Rendering Index.





nsi INDUSTRIES

LIGHTING

# Mini Wallpacks

## WP SERIES





## FEATURES

- For small area fixtures: Doorways, loading docks, commercial, institutional, industrial areas.
- Mini wallpacks are available with a one-piece polycarbonate housing and lens (1) or with a die-cast housing and borosilicate glass lens (2).
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Polycarbonate version available with built-in photocontrol.
- Die cast version can be field installed with photocontrol.
- UL Listed for wet location use.
- Lamp included.

| 1 | 2 |
|---|---|
|  |  |

## RATINGS

c UL us

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | VOLTAGE | HEIGHT | WIDTH | DEPTH | BALLAST | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|---|
| **WP42FL*** | 1 | 42 Watt Fluorescent | 120/277VAC | 11 | 6.9 | 5.2 | Electronic | PLC | – |
| **WP26FLPC*** | 1 | 26 Watt Fluorescent with Photocontrol | 120/277VAC | 11 | 6.9 | 5.2 | Electronic | PLC | – |
| **WP70S** | 1 | 70 Watt Sodium | 120VAC | 11 | 6.9 | 5.2 | R-NPF | ED17 | Medium |
| **WP70SPC** | 1 | 70 Watt Sodium With Photocontrol | 120VAC | 11 | 6.9 | 5.2 | R-NPF | ED17 | Medium |
| **WPGC100MHQ** | 2 | Die Cast 100 Watt Metal Halide | 120/208/240/277VAC | 12 | 7.3 | 5.3 | QUAD HX-NPF | ED17 | Medium |

LED LIGHTING

# Small Wallpack LED 12W

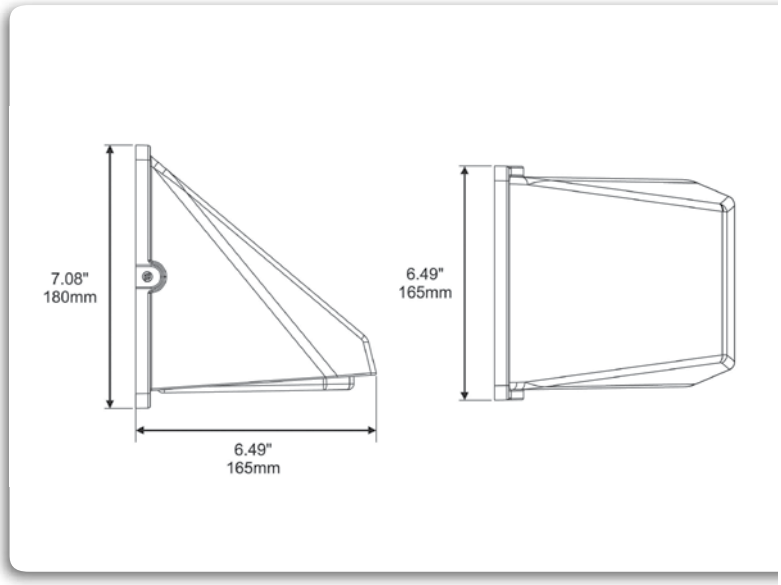
WP12LED



## FEATURES

- Die cast aluminum body with polycarbonate cover.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Quick mount installation.
- Color temperature - 5000k.
- High impact polycarbonate/diffuser.
- Ip65 rated enclosure.

This luminaire combines function and design with built-in heat sinks on top of the LED engine. This luminaire will provide effective lighting for a long time. Brilliant light illumination from the prismatic polycarbonate cover. Efficient and versatile, this fitting is suitable for both indoor and outdoor use. Ideal for apartments, motels and property maintenance.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP12LED** | 12 | 828lm** | 5000K | 300 | 277VAC | 70+ | -30 °C | 50W-70W MH |

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CRI: Color Rendering Index.

# Compact Wallpacks

## WPC SERIES







## COMPACT WALLPACK

- For small area fixtures: Doorways, loading docks, commercial, institutional, industrial areas.
- Compact wallpacks have a die cast housing with powder-coat finish and prismatic polycarbonate lens with gasket.
- Porcelain medium base socket assembly.
- One piece semi-specular asymmetric anodized aluminum reflector.
- UL Listed for wet location use.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPC70MHQ** | 70 Watt Metal Halide Polycarbonate Lens | 120/208/240/277VAC | QUAD HX-NPF | 9.5 | 8.5 | 7 | ED17 | Medium |
| **WPC100S** | 100 Watt Sodium Polycarbonate Lens | 120VAC | R-NPF | 9.5 | 8.5 | 7 | ED17 | Medium |

## COMPACT WALLPACK - DIE CAST



- For small area fixtures: Doorways, loading docks, commercial, institutional, industrial areas.
- Compact wallpacks have a die cast housing with powdercoat finish and prismatic borosilicate glass lens with gasket.
- Porcelain medium base socket assembly.
- One piece semi-specular asymmetric anodized aluminum reflector.
- UL Listed for wet location use.
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPC100MHQ** | Compact Wallpack<br>100 Watt Metal Halide Glass Lens | 120/208/240/277VAC | QUAD HX-HPF | 9.5 | 8.5 | 7.5 | ED17 | Medium |

LED LIGHTING

# Wallpack LED 36W

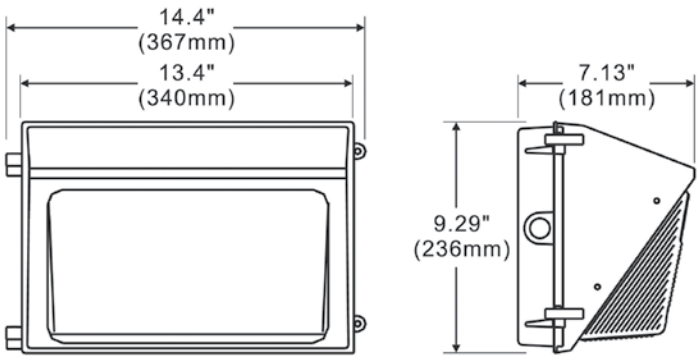
WP36LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant borosilicate glass lens.
- New generation led module.

Utilizing the latest generation of LED and chip technology, this uniquely designed wall-pack delivers a similar light output to a 100-150W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark Sky Compliant.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP36LED** | 36 | 2520lm** | 4700K | 950 | 120-277VAC | 70+ | -30 °C | 100W - 150W MH |

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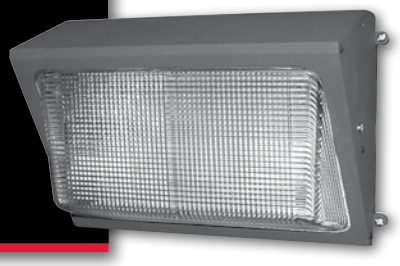


nsi INDUSTRIES

LIGHTING

# Medium Wallpacks

## WPM SERIES





## FEATURES

- For warehouse, perimeter lighting, security, and retail.
- Die cast housing and lens frame with powdercoat finish and a porcelain medium base socket assembly.
- Front frame is hinged with one piece stippled aluminum reflector.
- Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Listed for wet location use.
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Lamp included.

## RATINGS

c UL us *pulseSTART

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPM100MHQ** | 100 Watt Metal Halide | 120/208/240/277VAC | QUAD HX-HPF | 9 | 14.25 | 7.1 | ED17 | Medium |
| **WPM150SQ** | 150 Watt Sodium | 120/208/240/277VAC | QUAD HX-HPF | 9 | 14.25 | 7.1 | ED17 | Medium |
| **WPM150S** | 150 Watt Sodium | 120VAC | R-NPF | 9 | 14.25 | 7.1 | ED17 | Medium |
| **WPM150MHQP*** | 150 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 9 | 14.25 | 7.1 | ED17 | Medium |

LED LIGHTING

# Wallpack LED 68W

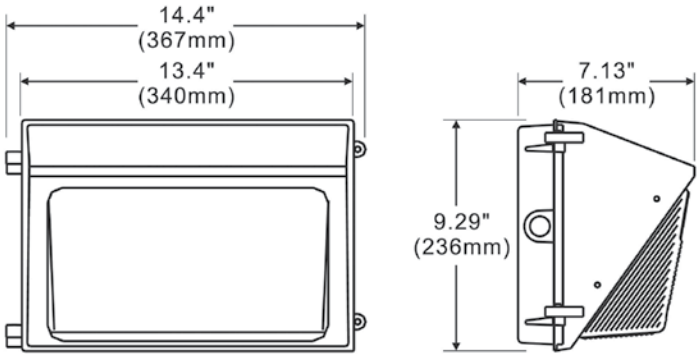
## WP68LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact resistant borosilicate glass lens.
- IC protection.
- New generation LED module.

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 150-200W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP68LED** | 68 | 4887lm** | 4700K | 950 | 120-277VAC | 70+ | -30 °C | 150W - 200W MH |

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CRI: Color Rendering Index.

LED LIGHTING

# Wallpack LED 77W

WP77LED

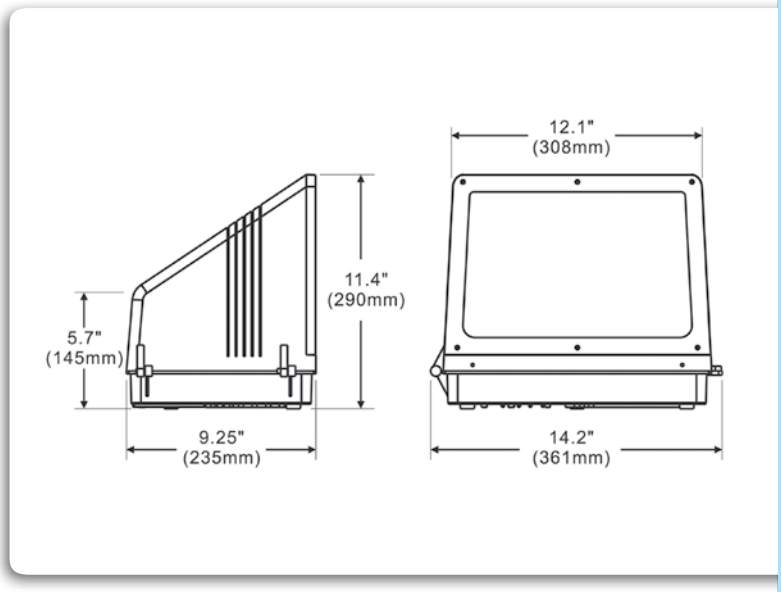




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700K.
- Heat & impact resistant tempered glass lens.
- IP65 rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).

Utilizing the latest generation of LED and chip technology, this uniquely designed wallpack delivers a similar light output to a 250W Metal Halide while consuming 1/3 of the energy. Appearance and high performance finish make this an ideal fixture for outdoor use. Fixture is full-cutoff Dark-Sky compliant.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **WP77LED** | 77 | 5036lm** | 4700K | 700 | 120-277VAC | 70+ | -30 °C | 250W MH |

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CRI: Color Rendering Index.

LIGHTING

# Large & Large Deep Wallpacks

## WPL & WPLD SERIES



## WALLPACK – LARGE

- For warehouse, perimeter, security and retail lighting.
- Large wallpacks have a die cast housing with powdercoat finish and a porcelain mogul base socket assembly.
- One piece stippled aluminum reflector.
- Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Listed for wet location use.
- Excellent for security and perimeter lighting, tunnels and commercial and industrial applications.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPL250SQ** | 250 Watt Sodium | 120/208/240/277VAC | QUAD CWA | 9 | 18.2 | 9.4 | ED18 | Mogul |
| **WPL250MHQP*** | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 9 | 18.2 | 9.4 | ED28 | Mogul |

## WALLPACK - LARGE DEEP



- For warehouse, perimeter, security and retail lighting.
- Large Deep wallpacks have a die cast housing with powdercoat finish and a porcelain 4KV mogul socket assembly.
- Specular aluminum reflector. Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Listed for wet location use.
- Excellent for security and perimeter lighting, tunnels and commercial and industrial applications.
- Large Deep wallpacks have an extra deep housing for better cooling and longer lasting Lamp included.

All dimensional data is listed in inches.

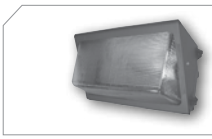
| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **WPLD400SQ** | 400 Watt Sodium | 120/208/240/277VAC | QUAD CWA | 9 | 18.2 | 12.8 | ED18 | Mogul |
| **WPLD250SQ** | 250 Watt Sodium | 120/208/240/277VAC | QUAD CWA | 9 | 18.2 | 12.8 | ED18 | Mogul |
| **WPLD320MHQP*** | 320 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 9 | 18.2 | 12.8 | ED37 | Mogul |
| **WPLD250MHQP*** | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 9 | 18.2 | 12.8 | ED28 | Mogul |

LIGHTING

# Fluorescent & Compact Floodlight

## FLF & FLC SERIES





## FLUORESCENT FLOOD

- For landscape, facade, security, pathway and sign lighting.
- NSi's non-metallic Fluorescent Floodlight features twin 13 Watt fluorescent lamps, fully silicone gasketed lens and frame.
- Mounts with fully adjustable 1/2" NPT threaded knuckle.
- Listed for wet locations.
- Lamp included.

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP |
|---|---|---|---|---|---|---|---|
| **FLF26NM*** | Fluorescent Flood 26 Watt Non-metallic | 120VAC | ELECTRONIC | 4.75 | 9.25 | 4.6 | PLC |

## COMPACT FLOOD



- Compact designs are ideal for security, sign, accent and perimeter, landscape, general floodlighting and facade lighting.
- Our Compact Floodlight has a die cast housing and lens frame with powdercoat finish and a one piece high impact tempered lens, 1/2" NPT knuckle assembly.
- The reflector is stippled for glare reduction and controlled beam distribution.
- Hinged lens assembly has silicone gasket to seal out dust and moisture.
- Listed for wet location use.
- Lamp included.

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FLC70MHQ** | Compact Flood 70 Watt Metal Halide | 120/208/240/277VAC | QUAD HX-HPF | 7.5 | 9 | 7 | ED17 | Medium |
| **FLC70SQ** | Compact Flood 70 Watt Sodium | 120/208/240/277VAC | QUAD HX-HPF | 7.5 | 9 | 7 | ED17 | Medium |
| **FLC150SQ** | Compact Flood 150 Watt Sodium | 120/208/240/277VAC | QUAD HX-HPF | 7.5 | 9 | 7 | ED17 | Medium |
| **FLC42FL*** | Compact Flood 42 Watt Fluorescent | 120VAC | ELECTRONIC | 7.5 | 9 | 7 | PLC | Medium |

LED LIGHTING

# Medium LED 20W Flood Light

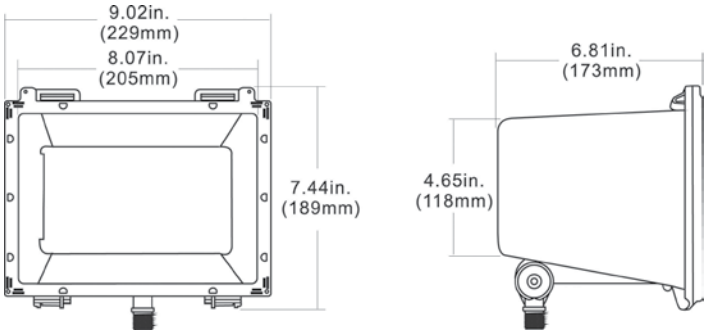
FL20LED



## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC current controlled LED circuits.

Energy conserving powerful floodlight. Pro-environment, green, long life LED flood lighting. Adapting the most dependable LED light source, the fixture uses aluminum with a high heat conducting coefficient ensuring conduction of surface heat.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|
| **FL20LED** | 20 | 1588lm** | 4700K | 120-277VAC | 75+ | -30 °C | 70W-100W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Large LED 40W Flood Light

FL40LED

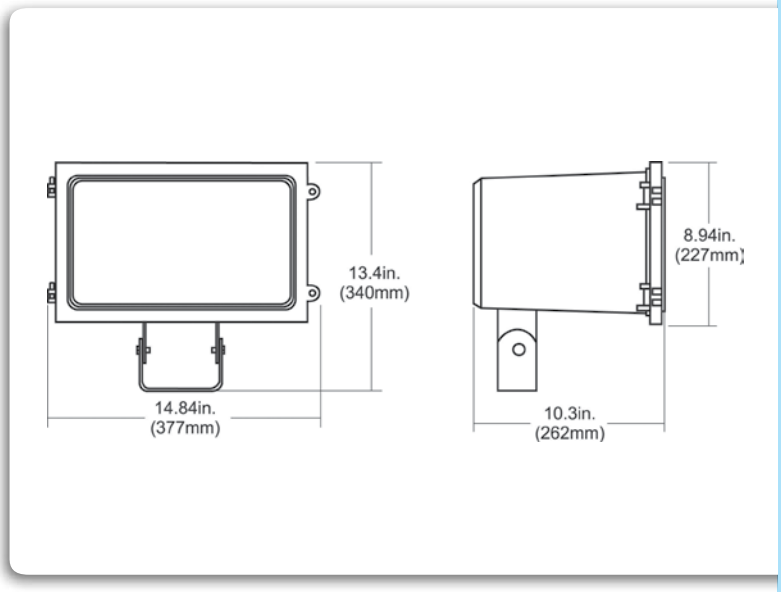




## FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC Current Controlled LED Circuits.

Energy conserving powerful floodlight. More light than a 150W halogen for about 1/7th the energy. Relamping once every 12~15 years instead of every 6 months. Perfect for hard-to-service locations. Rugged diecast design ensures LED's operate at optimum temperature for long life. Sealed against the environment for long reliable service life.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|
| **FL40LED** | 40 | 3176lm** | 4700K | 120-277VAC | 75+ | -30 °C | 150W-200W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LIGHTING

# Low Profile Floodlight

## FLLP SERIES



## FEATURES

- For large area perimeter and security lighting: Industrial, storage yards, parking areas, auto dealerships, landscape and recreational areas.
- Our Low-Profile floodlight has a die cast housing with powdercoat finish and comes with three piece anodized aluminum reflector, supplying wide beam distribution.
- High impact tempered lens.
- Listed for wet location use.
- Can be mounted for landscape/facade lighting; Pole tenon mount available.
- Lamp included.

**SHOWN MOUNTED ON FLPTM**



## RATINGS

*pulseSTART

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FLLP150MHQP*** | 150 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 10.25 | 16.25 | 10.75 | ED28 | Mogul |
| **FLLP250MHQP*** | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 10.25 | 16.25 | 10.75 | ED28 | Mogul |
| **FLLP320MHQP*** | 320 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 10.25 | 16.25 | 10.75 | ED37 | Mogul |
| **FLPTM** | Pole Tenon Mount for FLLP Series | | | | | | | |

LIGHTING

# Medium And Large Floodlight

## FLM & FL SERIES





## MEDIUM FLOOD

- For compact designs: security, accent and perimeter lighting.
- Ideal for landscape, general floodlighting, signs and facade lighting.
- Die cast housing and hinged top frame with textured bronze finish.
- The aluminum hydroformed reflector is rotatable and is adjustable for horizontal or vertical lamp positions.
- Fixture has adjustable ½" NPT threaded knuckle with angle indicators to assist in correct aiming.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FLM70MHQ** | 70 Watt Metal Halide | 120/208/240/277VAC | QUAD CWA | 10.25 | 9 | 7.25 | ED17 | Medium |

## LARGE FLOOD

- For large area perimeter and security lighting: Industrial, storage yards, parking areas, auto dealerships, landscape and recreational areas.
- 16" 400, 320 and 250 Watt Floodlights.
- Heavy duty die cast aluminum housing and durable bronze powdercoat finish.
- Extra heavy duty slipfitter included (bracket mount is available).
- Fixture has silicone gasketing, stainless steel hardware and a tempered glass lens.
- Front lens assembly is fully hinged for easy relamping and maintenance.
- Lamp included.



**FLBR**



All dimensional data is listed in inches.

| CAT NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FL400SQ** | 400 Watt Sodium | 120/208/240/277VAC | QUAD CWA | 17 | 16.5 | 7.2 | ED18 | Mogul |
| **FL320MHQP*** | 320 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 17 | 16.5 | 7.2 | ED28 | Mogul |
| **FL250MHQP*** | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE | 17 | 16.5 | 7.2 | ED28 | Mogul |
| **FLBR** | Bracket Mount for FL Series 250, 320 and 400 Watt Floods | | | | | | | |

LIGHTING

# 1000 Watt And Incandescent Floodlight

## FLH & PHN SERIES



## 1000 WATT FLOOD

- For large area perimeter and security lighting: Industrial, storage yards, parking areas, auto dealerships, landscape and recreational areas.
- 23" 1000 Watt Floodlights have heavy duty die cast aluminum housing and durable bronze powdercoat finish.
- Extra heavy duty slipfitter included (bracket mount is available).
- Fixture has silicone gasketing, stainless steel hardware and a tempered glass lens.
- Front lens assembly is fully hinged for easy relamping and maintenance.
- Lamp included.

**FLHBR**



All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **FLH1000MHQ** | 1000 Watt Flood Metal Halide | 120/208/240/277VAC | QUAD CWA | 29 | 23.75 | 10.25 | ED37 | Mogul |
| **FLH1000SQ** | 1000 Watt Flood Sodium | 120/208/240/277VAC | QUAD CWA | 29 | 23.75 | 10.25 | ED25 | Mogul |
| **FLHBR** | Bracket Mount For 1000 Watt Flood - FLH Series | | | | | | | |

## INCANDESCENT FLOOD

- Incandescent: General purpose floodlighting
- Quartz: Accent, security, landscape, facades, signs and general purpose floodlighting.
- Oversized backplate designed specially to cover gaps where cutouts for boxes are too big.
- Extra deep backplate also fits over a flush-mounted pancake box to provide a good fit and appearance.
- Both par holders swivel side to side and up and down and can be securely locked.



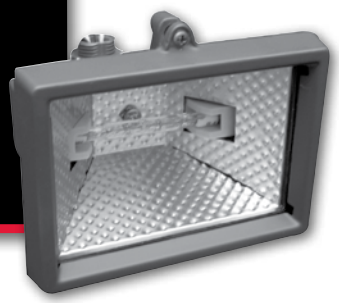
All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | DIAMETER (BACKPLATE) | LAMP TYPE |
|---|---|---|---|
| **PHNM300** | 300 Watt Nonmetallic Twin Par Holder | 5.25 | PAR 38 |

LIGHTING

# Quartz Floodlight with Lamp

QF SERIES





## FEATURES

- For accent, security, landscape, facades, signs and general purpose floodlighting.
- Solid one piece die cast aluminum construction, high impact resistant tempered glass lens, aluminum reflector and corrosion resistant hardware.
- Silicone rubber gasketing is included to prevent leakage from outside.
- UL and CUL listed for wet location use.
- 150 Watt is perfect for lighting small outdoor areas; the others are excellent for general purpose floodlighting.
- Mounts with 1/2" NPT knuckle.
- Lamps included.

| 1 | 2 |
|---|---|
|  |  |

## RATINGS

c UL us

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | VOLTAGE | HEIGHT | WIDTH | EXTENSION |
|---|---|---|---|---|---|---|
| **QF150B** | 1 | 150 Watt Quartz Flood Bronze With Lamp | 120VAC | 3.5 | 3.3 | 3.9 |
| **QF300-500B** | 2 | Quartz Flood Bronze With 300/500 Watt Lamps | 120VAC | 5.75 | 5.75 | 4.6 |

LIGHTING

# High Pressure Sodium Ballast Kits with Lamp

BKS SERIES



## FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.
- Consult factory for availability of 5-tap ballast.

## RATINGS

| CAT. NO. | DESCRIPTION | VOLTAGE | LAMP |
|---|---|---|---|
| **BKS70RL-MED** | 70 Watt HPS Reactor | 120VAC | Medium |
| **BKS50QL-MED** | 50 Watt HPS Quad | 120/208 /240/277V | Medium |
| **BKS70QL-MED** | 70 Watt HPS Quad | 120/208/240/277V | Medium |
| **BKS100QL-MED** | 100 Watt HPS Quad | 120/208/240/277V | Medium |
| **BKS150QL-MED** | 150 Watt HPS Quad | 120/208/240/277V | Medium |
| **BKS250QL-M** | 250 Watt HPS Quad | 120/208/240/277V | Mogul |
| **BKS400QL-M** | 400 Watt HPS Quad | 120/208/240/277V | Mogul |
| **BKS1000QL-M** | 1000 Watt HPS Quad | 120/208/240/277V | Mogul |
| **BKS1000480L-M** | 1000 Watt HPS | 480VAC | Mogul |

LIGHTING

# Metal Halide Ballast Kits with Lamp

## BKM SERIES





## FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.
- Consult factory for availability of 5-tap ballast.

## RATINGS

*pulseSTART

| CAT. NO. | DESCRIPTION | VOLTAGE | LAMP |
|---|---|---|---|
| **BKM50QL-MED** | 50 Watt Metal Halide Quad | 120/208/240/277V | Medium |
| **BKM70QL-MED** | 70 Watt Metal Halide Quad | 120/208/240/277V | Medium |
| **BKM100QL-MED** | 100 Watt Metal Halide Quad | 120/208/240/277V | Medium |
| **BKM400QL-M** | 400 Watt Metal Halide Quad | 120/208/240/277V | Mogul |
| **BKM400480L-M** | 400 Watt Metal Halide | 480VAC | Mogul |
| **BKM1000QL-M** | 1000 Watt Metal Halide | 120/208/240/277V | Mogul |
| **BKM320QPL-M*** | 320 Watt Metal Halide Pulse Quad | 120/208/240/277V | Mogul |

LIGHTING

# High Pressure Sodium Ballast Kits Only

BKS SERIES



## FEATURES

- Kit includes: Cap, ignitor and brackets.
- Consult factory for availability of 5-tap ballast.

## RATINGS

| CAT. NO. | DESCRIPTION | VOLTAGE |
|---|---|---|
| **BKS70R** | 70 Watt HPS Reactor – Cap, Ignitor & Brackets | 120V |
| **BKS100R** | 100 Watt HPS Reactor – Cap, Ignitor & Brackets | 120V |
| **BKS50Q** | 50 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS70Q** | 70 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS100Q** | 100 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS150Q** | 150 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS250Q** | 250 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS400Q** | 400 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKS1000Q** | 1000 Watt HPS Quad – Cap, Ignitor & Brackets | 120/208/240/277V |

LIGHTING

# Metal Halide Ballast Kits Only

BKM SERIES



## FEATURES

- Kit includes: Cap, ignitor and brackets.
- Consult factory for availability of 5-tap ballast.

## RATINGS

*pulseSTART

| CAT. NO. | DESCRIPTION | VOLTAGE |
|---|---|---|
| **BKM50Q** | 50 Watt Metal Halide Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM70Q** | 70 Watt Metal Halide Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM100120** | 100 Watt Metal Halide – Cap, Ignitor & Brackets | 120V |
| **BKM100Q** | 100 Watt Metal Halide Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM250Q** | 250 Watt Metal Halide Quad – Cap & Brackets | 120/208/240/277V |
| **BKM400Q** | 400 Watt Metal Halide Quad – Cap & Brackets | 120/208/240/277V |
| **BKM400480** | 400 Watt Metal Halide – Cap & Brackets | 480V |
| **BKM1000Q** | 1000 Watt Metal Halide Quad – Cap & Brackets | 120/208/240/277V |
| **BKM1000480** | 1000 Watt Metal Halide – Cap & Brackets | 480V |
| **BKM150QP*** | 150 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM250QP*** | 250 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| **BKM320QP*** | 320 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |

LIGHTING

# Twin Head & Fixed Optics Emergency Light

## EMTW & EMFW SERIES



## TWIN HEAD EMERGENCY LIGHT

- For commercial, industrial, institutional and retail lighting.
- Unit gives a low profile appearance with automatic LVD (low voltage disconnect) and universal transformer for 120 or 277VAC.
- Universal mounting plate with quick connect for labor saving installation.
- Injection-molded V-0 flame retardant high-impact thermoplastic housing and a 6V sealed lead acid maintenance free battery with 90 minute operation.
- Environmentally-coated solid state charger.
- Listed for damp location use.

| CAT. NO. | UPC CODE | BATTERY | HOUSING | LAMP |
|---|---|---|---|---|
| **EMTW-LED** | 05281 | 6 Volt | White | 2 x 5.4 Watt |

## FIXED OPTICS EMERGENCY LIGHT



- For commercial, industrial, institutional and retail lighting.
- Fully automatic operation with automatic LVD (low voltage disconnect) and universal transformer for 120 or 277VAC.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing and a 6V premium grade, sealed lead acid, maintenance free battery with 90 minute operation.
- Compact, low profile design in pleasing neutral finish with environmentally-coated solid state charger.
- Listed for damp location use.

| CAT. NO. | BATTERY | HOUSING | LAMP |
|---|---|---|---|
| **EMFW** | 6 Volt | White | 2 x 5.4 Watt |

LIGHTING

# LED Exit & Combo LED Incandescent Exit Light

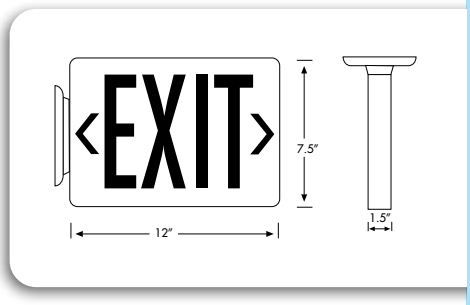
EXL & EEL SERIES






## LED EXIT LIGHT

- For commercial, industrial, institutional and retail lighting.
- Fully automatic operation at 120 or 277VAC with 25+ years LED lamp life.
- LED exit lights have a universal mounting canopy for side or top installation.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing with a low profile design and excellent energy savings.

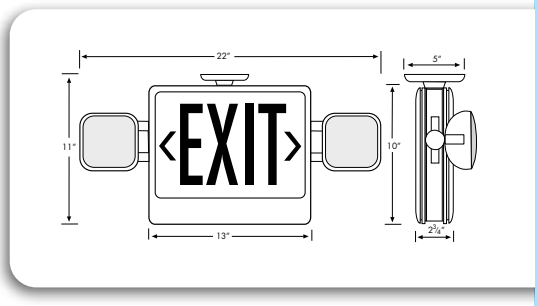



| CAT. NO. | NO. OF FACES | TYPE | LETTERING | HOUSING |
|---|---|---|---|---|
| **EXLRW** | 2 | AC | Red | White |
| **EXLBURW-SL** | 2 | 90 Min. Slimline Battery Backup | Red | White |
| **EXLBUGW** | 2 | 90 Min. Battery Backup | Green | White |

## COMBO LED/INCANDESCENT EXIT LIGHT

- For commercial, industrial, institutional and retail lighting. Excellent energy savings and the LED lamp life of 25+ years.
- Automatic LVD (low voltage disconnect) and universal transformer for 120 or 277VAC.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing and a 6V pure lead maintenance free battery with 90 minute operation.
- Two fully adjustable glare free lighting heads in a compact, modern design.
- Self-diagnostic and remote capable options are available for this fixture, call for special quote.
- Universal mounting canopy for ceiling installation.




| CAT. NO. | NO. OF FACES | LETTERING | HOUSING | REMOTE |
|---|---|---|---|---|
| **EEL2RW-LED** | 2 | Red | White | No |
| **EEL2RWRM-LED** | 2 | Red | White | Yes |
| **EEL2GW** | 2 | Green | White | No |

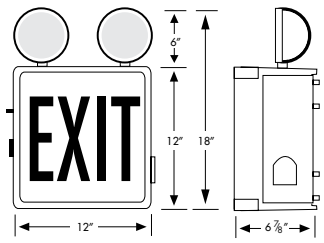
# Wet Location Emergency Light

## EMWL & EMTW SERIES




## WET LOCATION LED EXIT LIGHT, 2-HEAD UNIT

- For commercial, industrial, institutional and retail lighting.
- ABS, corrosion resistant UV stabilized enclosures meet NFPA, NEC, OSHA, NEC and local and state codes, making these energy-saving wet location LED exit lights great for corrosive or damaging environments.
- Universal 120/277VAC operation with removable directional indicators and an 25+ year light source life expectancy.

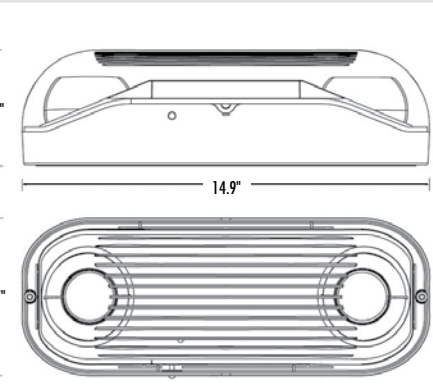



| CAT. NO. | TYPE | LETTERING | HOUSING | BATTERY |
|---|---|---|---|---|
| **EMWL26RW** | 2-Head Emergency Light | Red | White | 6V |

## WET LOCATION LED EXIT LIGHT

- For commercial, industrial, institutional and retail lighting.
- Dual 120/277VAC operation.
- Sealed lead acid, rechargeable, maintenance-free battery and high-impact housing.
- Push-to-test switch and automatic, low-voltage disconnect (LVD).
- Completely self-contained and UL listed for wet locations.






All dimensional data is listed in inches.

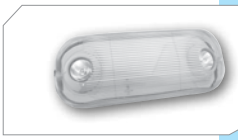
| CAT. NO. | DESCRIPTION | BATTERY TYPE | BATTERY | HEIGHT | WIDTH | DEPTH | LAMP |
|---|---|---|---|---|---|---|---|
| **EMTWMR16WL** | Wet Location Twin Head Mr16 Emergency Light-Gray | Sealed Lead Acid 90 Minute Operation | 6V | 5.7 | 14.9 | 4.2 | 2 x 7 Watt MR-16 Halogen |

LIGHTING

# Heavy Duty Emergency Light & Emergency Fluorescent Ballast

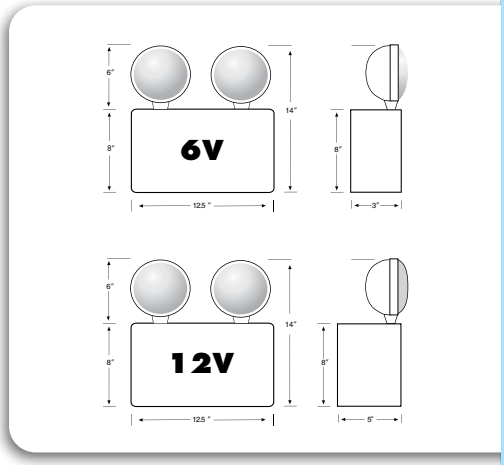
## EMHD & FBP SERIES





## HEAVY DUTY EMERGENCY LIGHT

- For commercial, industrial, institutional and retail lighting.
- Automatic LVD (low voltage disconnect) and universal transformer for 120 or 277 VAC.
- This heavy duty light comes standard with two fully adjustable glare-free lighting heads and side and top conduit KOs.
- 6V premium grade, sealed lead acid, maintenance free batteries included with 10 year life expectancy.
- Remote capability and easy installation.
- 6Vt units offer 7.2 watt lamps standard and 12 volt units offer 9 watt lamps standard.
- UL listed for damp location use.




| CAT. NO. | WATTAGE CAPACITY | BATTERY | VOLTAGE | LAMP |
|---|---|---|---|---|
| **EMHD506** | 50 Watt | 6 Volts | 120/277VAC | 13 |

## EMERGENCY FLUORESCENT BALLAST

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

| CAT. NO. | FIG. | LUMENS | DIMENSIONS | | | LINEAR LAMPS | | | | COMPACT FLUORESCENT LAMPS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | H | L | W | 2'4' Rapid, Instant, or Energy Savings, T8-T12, HO, VHO | 2'-8' Rapid, Instant, or Energy Savings, Circline T8-T12, HO, VHO | 8W-28W - T5* | 54W - T5HO | 17W-40W 4-pin compact | 40W-55W 4-pin compact |
| **FBP100** | 1 | 500 | 1.5" | 9.4" | 2.4" | 1 | | 1 | | 1 | |
| **FBP60** | 2 | 700 | 1.5" | 9.4" | 2.4" | 1 or 2 | 1 | 1 | | 1 or 2 | 1 |
| **FBP50** | 3 | 1400 | 1.5" | 13.3" | 2.4" | 1 or 2 | 1 | 1 or 2 | 1 or 2 | 1 or 2 | 1 |

*The ballast may not fit in a typical T5 fixture and needs to be remotely mounted. All ballast are standard with dual 120/277V input. Damp location listed (0 °C to 50 °C).

# Entry Cylinder & 5x8 Vandal Resistant

## EL & VRM SERIES



## ENTRY CYLINDERS

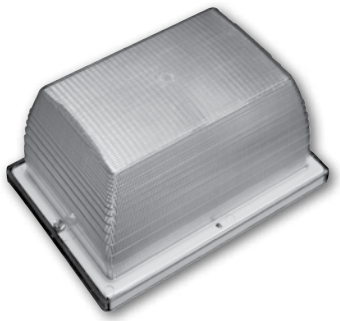
- For loading docks, security lighting and entrance doorway lighting.
- Features impact and corrosion resistant polycarbonate housing and polycarbonate lens.
- The lens is engineered to diffuse light to properly light entryways without glare.
- Lens locks in place with an allen set screw to resist tampering.
- 26W 4100K fluorescent lamp.
- Listed for wet locations.
- Lamp included.

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP |
|---|---|---|---|---|---|---|---|
| **EL26FL*** | Entry Cylinder 26 Watt Fluorescent | 120 VAC | Electronic | 9 | 5 | 7 | PLC |

## VANDAL RESISTANT 5X8 ENTRY LIGHT



- For residential multi-family, commercial, institutional entry and small area fixtures.
- Available in fluorescent with clear polycarbonate lens. Includes steel pan, gasket and hardware, socket and bracket.
- Can be ceiling/canopy or wall mounted.
- Listed for wet locations.
- Lamp Included

*energy saving FLUORESCENT!

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTAGE | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP |
|---|---|---|---|---|---|---|---|
| **VRM13FL*** | Mini VR 5x8 13 Watt Fluorescent (Clear Lens) | 120VAC | Electronic | 5.5 | 7.75 | 4.25 | PLC |

LIGHTING

# Small & Large Vandal Resistant Light

VRS SERIES





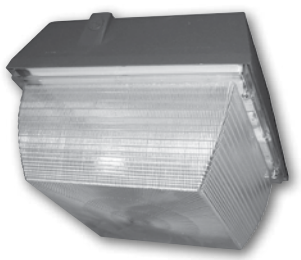
## SMALL VANDAL RESISTANT

- For large area perimeter and security lighting: Industrial, storage yards, parking areas, auto dealerships, landscape and recreational areas.
- Heavy duty die cast aluminum housing and hinged top frame, 1/2" coin plugs for conduit & photocell, textured architectural bronze powder finish over a chromate conversion coating.
- Aluminum smooth reflector with tempered flat clear glass lens.
- 2-piece swivel bracket, adjustable slipfitter for mounting.
- Listed for wet locations.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTS | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **VRS70MHQ** | Small Vandal Resistant 8x8 Square 70 Watt Metal Halide | 120/208/240/277VAC | QUAD HX-HPF | 16.63 | 16.13 | 7 | ED17 | Medium |

## LARGE VANDAL RESISTANT



- For canopy, parking garages and loading dock lighting.
- Die cast housing, chromate conversion coating and textured bronze finish and corrosion resistant stainless steel hardware.
- Polycarbonate lens, silicone gasketing and medium socket with white reflector.
- 1/2" coin plugs are provided for surface wiring.
- Listed for wet locations.
- Lamp included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTS | BALLAST | HEIGHT | WIDTH | DEPTH | LAMP | BASE |
|---|---|---|---|---|---|---|---|---|
| **VRS100MHQ** | Large Vandal Resistant 12x12 Square 100 Watt Metal Halide | 120/208/240/277VAC | QUAD HX-HPF | 12.4 | 12.3 | 8.6 | ED17 | Medium |

LED LIGHTING

# Security Light LED 35W

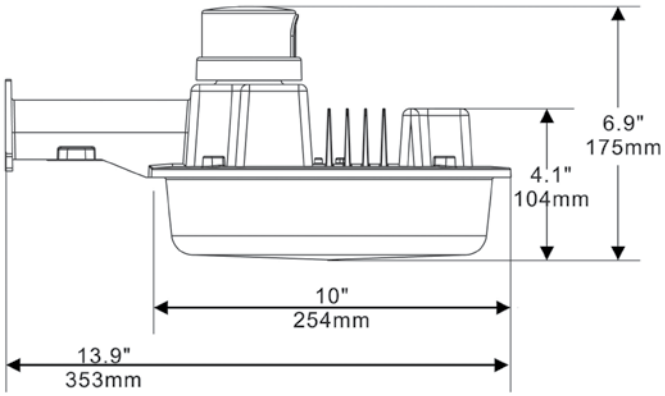
DTD35LED



## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Impact resistant lens.
- Photocontrol included.

The Dusk-to-Dawn Fixture of the future is here. Utilizing a single source LED, this dusk-to-dawn provides prismatic-designed light output for any environment. It comes with NEMA approved photocontrol which, when used with LED provides significant power savings. Maintaining all the strengths of the traditional dusk-to-dawn fixtures (such as installation brackets and arms) while employing the latest generation of LEDs, this LED dusk to dawn will last for years to come.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **DTD35LED** | 35 | 2650lm** | 5000K | 950 | 120VAC | 70+ | -30 °C | 100W-150W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LIGHTING

# Incandescent Loading Dock Lights

## TA-DOK SERIES





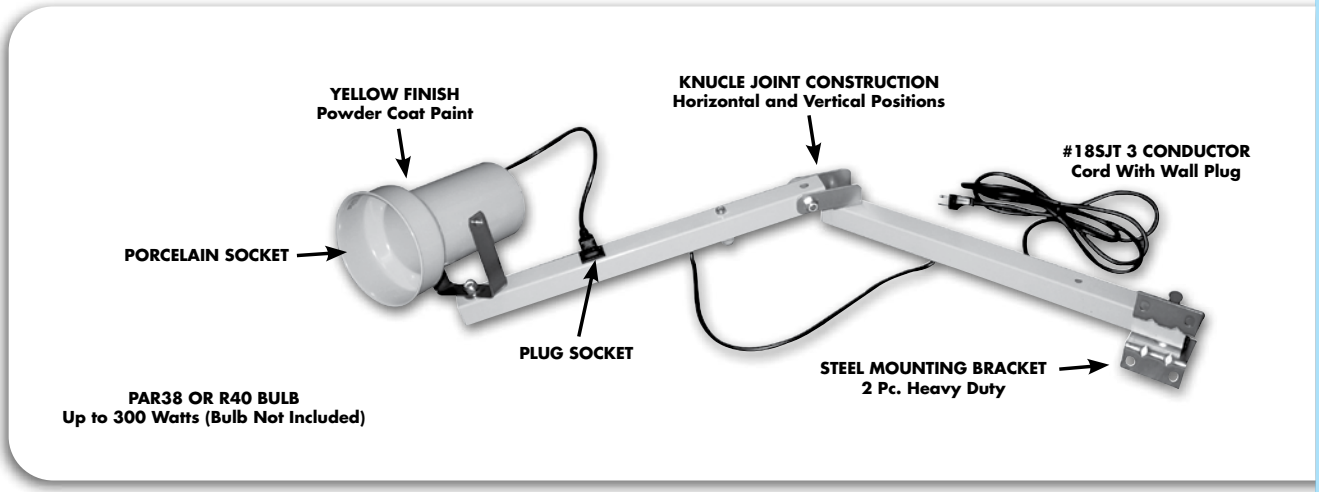
## FEATURES

- Adjustable pivot friction which maintains intended positions.
- 1-1/2″ square, 14 gauge steel arm resists damage from impact.
- 36″, 3 conductor #18SJT cord with wall plug is included.
- Lamp not included.

## RATINGS

c UL us

| CAT. NO | DESCRIPTION | COLOR |
|---|---|---|
| **TA-DOK 40VA** | 115VAC Extends 40 Inches | Yellow |
| **TA-DOK 60VA** | 115VAC Extends 60 Inches | Yellow |



LED LIGHTING

# Vaportite LED 13W Wall Mount

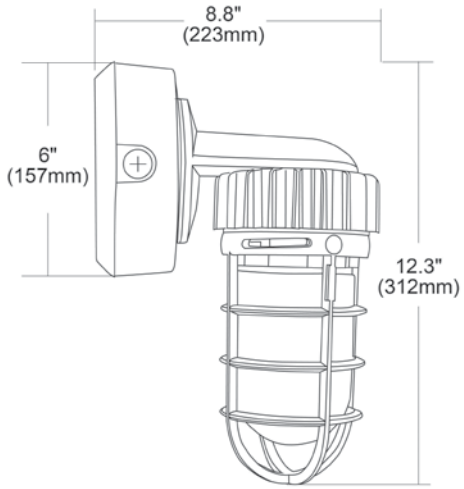
VTW13LED



## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Heat & impact resistant tempered glass lens.
- IP65 rated & IC protection.
- DLC Listed (Design Lights Consortium).

Heavy duty vapor-proof LED light is built to last. With industrial-grade rubber gaskets as sealants and automobile grade aluminum, this LED light is a beacon. With a COB LED inside, it provides performance lighting while utilizing very little power. Die-cast guard on the outside of the glass protects the high power LED. Fixture can be used in warehouse, docks, restaurants, and many other applications.




## RATINGS

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **VTW13LED** | 13 | 670lm** | 5000K | 700 | 120-277VAC | 70+ | -30 °C | 50W-70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

LED LIGHTING

# Vaportite LED 13W Ceiling Mount

VTC13LED

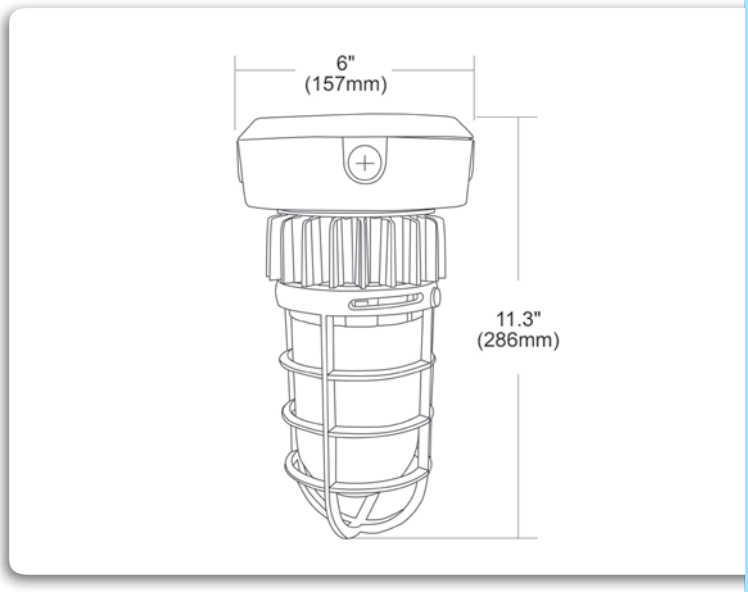




## FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 5000k.
- 1/2" Conduit.
- Plugs on all 4 sides.

Heavy duty vapor-proof LED light is built to last. With industrial-grade rubber gaskets as sealants and automobile grade aluminum, this LED light is a beacon. With a COB LED inside, it provides performance lighting while utilizing very little power. Die cast guard on the outside of the glass protects the high power LED. Fixture can be used in warehouse, docks, restaurants, and many other applications.




## RATINGS

c UL us LISTED

cULus Listed for wet locations.

| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | MA | INPUT VOLTAGE | CRI | STARTING TEMP. | EQUIVALENT |
|---|---|---|---|---|---|---|---|---|
| **VTC13LED** | 13 | 670lm** | 5000K | 700 | 120-277VAC | 70+ | -30 °C | 50W-70W MH |

**DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.
CRI: Color Rendering Index.

# Short-term Lighting Systems, Accessories & Box & Wall Vaportite

## SLUL, SC, RS, VTB, VTW SERIES



## SHORT-TERM LIGHTING SYSTEMS

- *UL Listed.

| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

| CAT. NO | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|---|---|---|---|
| **SLUL100*** | 1 | 100 Ft. With Molded Sockets In 10 Ft. Intervals. 150 Watts. Osha And Nec Compliant. High Visibility Yellow. | 1 |
| **SC200** | 2 | Standard Cage | 24 |
| **RS200** | 3 | Rotatable Socket 200 Watt | 24 |

## BOX AND WALL VAPORTITE

- For well or pit lighting, indicators on docks, industrial and commercial lighting.
- Heavy duty die cast aluminum housing.
- One piece locking die cast aluminum guard with grey polyester powder coat finish.
- Screw in tempered glass globe.
- Listed for wet location use.
- 1/2" NPT knockouts.
- Lamp not included.

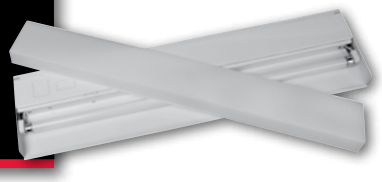
| 1 | 2 | 3 |
|---|---|---|
|  |  |  |

All dimensional data is listed in inches.

| CAT. NO. | FIG. NO. | DESCRIPTION | HEIGHT | WIDTH | LAMP |
|---|---|---|---|---|---|
| **VTB15012** | 1 | Box 150 Watt ½" Vaportite | 9 | 4.125 | Incandescent |
| **VTW15012** | 2 | Wall 150 Watt ½ Vaportite | 10 | 7.13 | Incandescent |
| **CG150** | 3 | Clear Glass Globe for 150 Series Vaportite Fixtures | – | – | – |

# Fluorescent Undercabinet & Heavy Duty Ground Stake

## UCF SERIES







## FLUORESCENT UNDERCABINET

- For fluorescent undercabinet lighting is constructed of heavy duty steel with white powdercoat finish.
- UV inhibited acrylic diffuser with linear prism which snaps in for easy maintenance.
- T-5 4100K lamp included.
- Flourescent is great for energy savings.
- Ultra thin, 1" thick.
- K.O.s on top, side and back.
- Includes rocker switch.
- Lamp Included.

All dimensional data is listed in inches.

| CAT. NO. | DESCRIPTION | VOLTS | LENGTH | WIDTH | DEPTH |
|---|---|---|---|---|---|
| **UCF128WT5** | 8 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 12 | 5 | 1 |
| **UCF2113WT5** | 13 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 21 | 5 | 1 |
| **UCF2416WT5** | 16 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 24 | 5 | 1 |
| **UCF3321WT5** | 21 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 33 | 5 | 1 |
| **UCF4226WT5** | 26 Watt T-5 Electronic Ballast, with Lamp | 110-125 | 42 | 5 | 1 |

## HEAVY DUTY GROUND STAKE

- Adjustable stabilizer and built in wiring compartment.
- Durable molded plastic with die cast fitting for 1⁄2" NPT threads.
- Two 1/2" coin plugs for enclosed wiring.
- Two 1/2" coin plugs outside for surface and through-wiring.



All dimensional data is listed in inches.

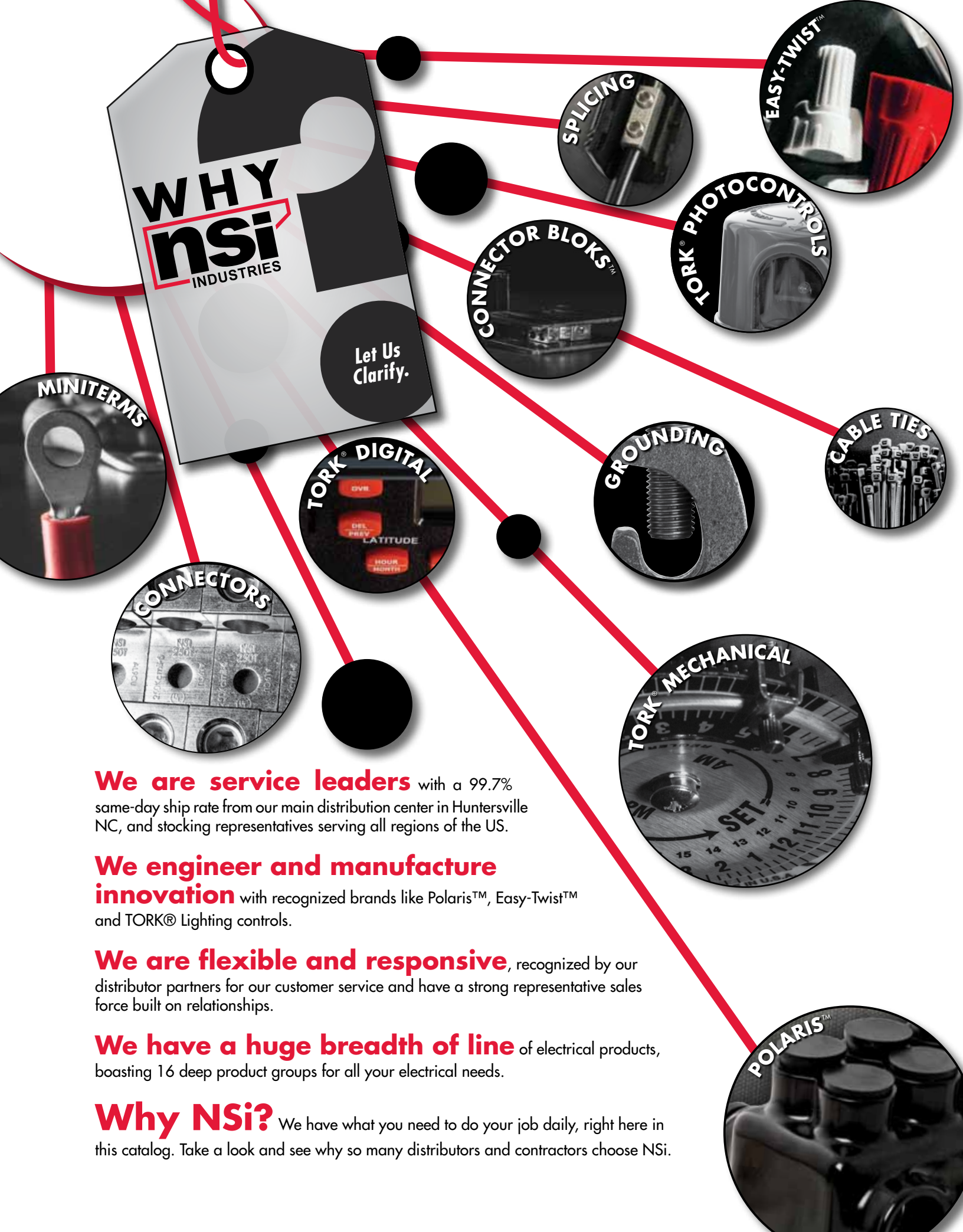
| CAT. NO. | DESCRIPTION | HEIGHT | WIDTH | DEPTH |
|---|---|---|---|---|
| **GST** | Non-metallic Heavy Duty Ground Stake | 19 | 9 | 3.5 |

# TORK®

nsi INDUSTRIES




4 HOUR
8 HOUR
SET
TURN PAST
MINUTES
TIMER
ON
OFF
CYCLE TIME
TORK
TIME
TORK
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**We are service leaders** with a 99.7% same-day ship rate from our main distribution center in Huntersville NC, and stocking representatives serving all regions of the US.

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< ***Responsible Energy*** is the mark of TORK's commitment to developing and manufacturing energy saving, environmentally friendly products.

# EXTERIOR LIGHTING ZONES

When ambient light levels drop at dusk, lighting is needed to provide safety and security. BUT: Does all lighting need to be on all night long? The proper selection of lighting controls is essential to ensuring that energy is only used when needed. An efficient lighting control design creates zones of light levels that can be varied by time at night.

## ZONE 1 - DUSK TO DAWN - All night Security Lighting

Photocontrols and Photosensors

The first zone gives a minimum light level where security is the primary need. Determine what lighting is necessary, such as building-mounted wallpacks and a portion of the parking lot lighting. These should be on from dusk to dawn, and are best controlled by a photosensor device.

## ZONE 2 - DUSK TO TIME OFF - Safety and Architectural Lighting

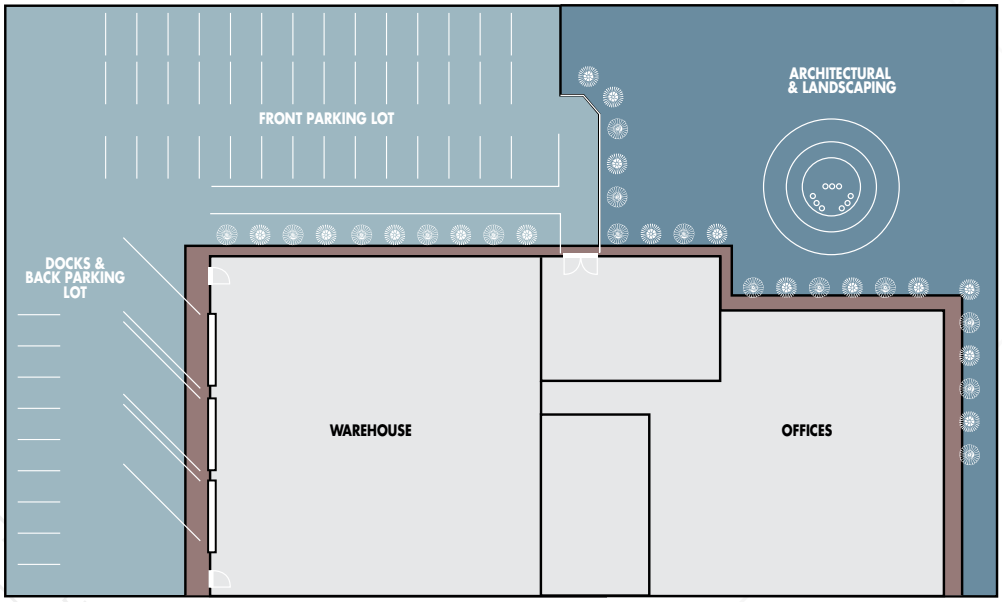
Photosensor/Time-based controls, Astronomic controls

The second zone provides a higher light level for safety, when people are normally present. Maximum levels for the parking lot and all walkway lighting are needed. These lights are best controlled by a combination photosensor and time-based device to allow shut-off during the night. The astronomic-calculated sunset/time control can also be useful.

## ZONE 3 - ARCHITECTURAL - Building Facade, Landscape and Signage

Astronomic controls

The third zone covers architectural lighting for building facade or landscape and signs. These are best controlled with an astronomic-calculated sunset/time control.




Energy Saving Solutions
Lighting Controls

< Use the Quick Reference ***Energy Code Guide*** for approved products.

***Responsible Energy***
Each of these marked products have features that decrease energy consumption and/or damage to the environment by one or more of the following:

- Timed control, Photocontrol and/or Astronomic control of on and off functions of lighting, fans, pumps and appliances
- Timed control of systems or multiple zones of lighting
- Photo or occupancy sensing control of lighting
- Supercapacitor backup, no batteries to replace or dispose.
- Helps meet CA Title 24, ASHRAE , IECC and other standards for responsible building products

# INTERIOR LIGHTING ZONES

The first way to save energy begins with eliminating lighting when it isn't needed. As with exterior lighting, an efficient design matches controls to the typical use of the area.

## ZONE A - SMALL SPACES - Meeting rooms, restrooms, storage spaces
Occupancy sensors, interval timers

The first zone includes small spaces such as offices, restrooms and storage areas – places where people may not occupy the space continuously. Individual wall switch replacement provides low cost installation, with occupancy sensors and interval timers as the best solution. In the event that wall switches do not provide proper coverage for the occupancy sensor, ceiling mounted options are available.

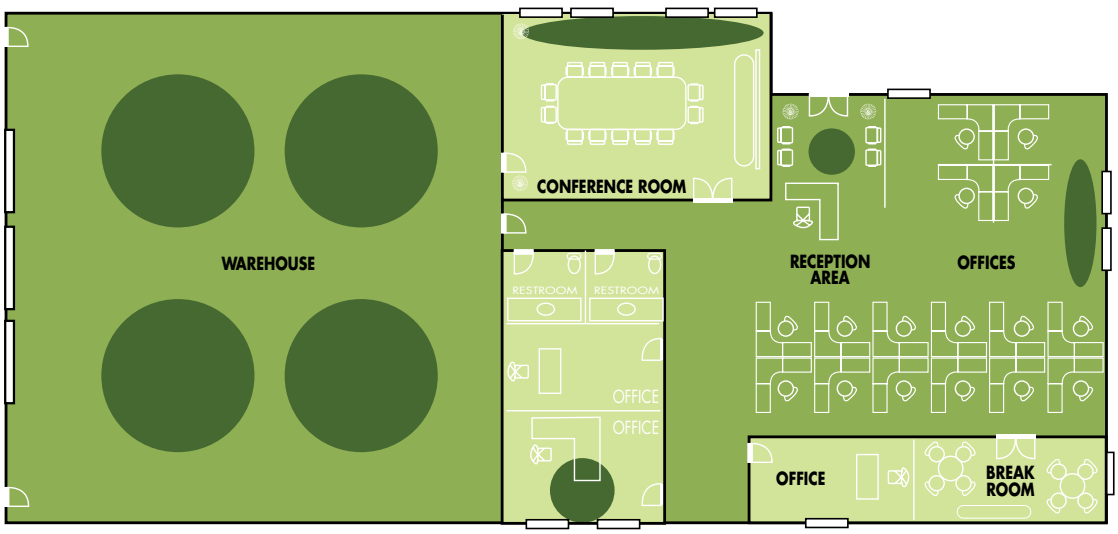
## ZONE B - LARGE SPACES - Open offices, public spaces, hallways, warehouses
Time of Day with Override, Occupancy Sensors

The second zone is for common areas, such as hallways, reception spaces or large spaces for open offices. These places are commonly controlled with time-of-day devices and must include an after-hours override. A conveniently placed switch should provide a limited override with a maximum length of two or four hours*, or occupancy sensors can be used to ensure that lights are shut off when people have left the building.

* Energy codes vary on the stated maximum time, but shorter times can give more energy savings.

## ZONE C - DAYLIGHT HARVESTING - Large or small spaces with natural light
Light Sensors, Light Sensors with Occupancy, Astronomic Timers

A third zone that uses daylighting control can be added to either of the first two zones. Light sensors can shut off a portion of the lighting when windows or skylights contribute sufficient natural light to the area. This "harvesting" of light is an excellent, green way to conserve energy.







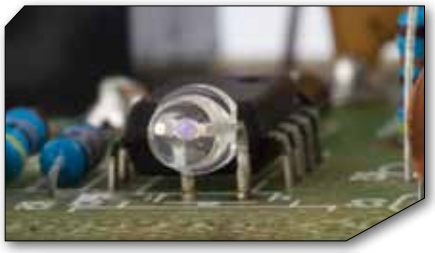
# TORK® PHOTOCONTROLS

# QUICK REFERENCE GUIDE

| | 2100 SERIES | 2110 SERIES | 2000 SERIES | 2001/ 2020 SERIES | 3000 SERIES | 5000M SERIES | 2005A SERIES | 2005B SERIES | 5200A SERIES | 5200-UL SERIES | 5737 SERIES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Page** | 435 | 436 | 437 | 438/439 | 440 | 441 | 443 | 444 | 445 | 446 | 447 |
| **Mounting** | Conduit | Conduit | Conduit | Conduit | Flush | Turn-Lock | Turn-Lock | Turn-Lock | Turn-Lock | Turn-Lock | Turn-Lock |
| **Adjustable Swivel** | | | | Yes | | | | | | | |
| **Housing** | Die Cast Zinc | Die Cast Aluminum | Lexan® | Lexan® | Lexan® | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic |
| **Turn ON Light Level** | 1 - 5 fc | 1 - 5 fc | 1 - 5 fc | 1 - 5 fc | 1 - 5 fc | 1 to 3 fc | 1 to 3 fc | 1.5 fc | 1.5 fc | 1.5 fc | 5 fc |
| **Light Level Adjustment** | Yes | Yes | Yes | Yes (2001) | | | | | | | |
| **Turn OFF Ratio** | 3:1 | 3:1 | 3:1 | 3:1 | 3:1 | 5:1 | 3:1 | 1.5:1 | 1.5:1 | 1.5:1 | 1.5:1 |
| **Time Delay ON** | Yes | Yes | Yes | Yes | Yes | Yes | Instant | Instant | Instant | Instant | Instant |
| **Time Delay OFF** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Light Sensor** | CdS | CdS | CdS | CdS | CdS | CdS | CdS | Filtered Silicon Sensor | Filtered Silicon Sensor | Filtered Silicon Sensor | Silicon Sensor |
| **CFL Compatible** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **LED Listed** | Yes | Yes | Yes | Yes | Yes | | | Yes | | Yes | |
| **Surge Protection** | | | | | | Yes | Yes | Yes | Yes | Yes | Yes |
| **Photo Timer** | | | | | | | | | | | Yes |

# FEATURES

## CHOICE OF PHOTOCELLS



Molded sealed IR filtered sensor resists effects of moisture and airborne contaminants. Available on turn-lock photocontrols. IR Filtering responds to the light spectrum near to that of a human eye.



Conformal coated CdS photocell resists effects of moisture and airborne contaminants. Available in 1/2" and 1" size on both wired and turn-lock photocontrols. Photocell responds to the light spectrum near to that of a human eye.

## TOUGH ENCLOSURES



All conduit and flush mounted models utilize die-cast zinc, die cast aluminum, or genuine Lexan® materials. All turn-lock models utilize high impact UV stabilized polypropylene, ABS, PBT or polycarbonate materials.

## TURN-LOCKS MEET ANSI C136.10



All models meet the current ANSI requirements for locking-type prongs and color coded voltage designations. Locking prongs are solid brass.

**ANSI Dome Color-Code**

| | |
|---|---|
| Grey | 105-130VAC |
| Maroon | 208-277VAC |
| Blue | 105-285VAC |
| Yellow | 480VAC |
| Green | 347VAC |

## CHOICE OF MOUNTING ORIENTATION



Models are available in fixed position or 180° swivel.

## DEPENDABLE PERFORMANCE

Built-in time delay prevents false switching due to light from passing vehicles, lightning, etc.

## QUALITY ASSURANCE

**TORK**® *Photocontrols are designed and manufactured with components which adhere to the highest industry standards. Trained personnel and in-process quality procedures ensure that every unit meets our strictest quality standards.*

# 2100 SERIES
## SPECIFICATION GRADE
## 1/2" CONDUIT MOUNTING
## DIE CAST ZINC PHOTOCONTROL




## APPLICATIONS

- Parking lot lighting
- Building perimeter lighting
- Outdoor signage

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy conformal coated 1" diameter.

**CONTACTS:** Remain closed between dusk and dawn. (The unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

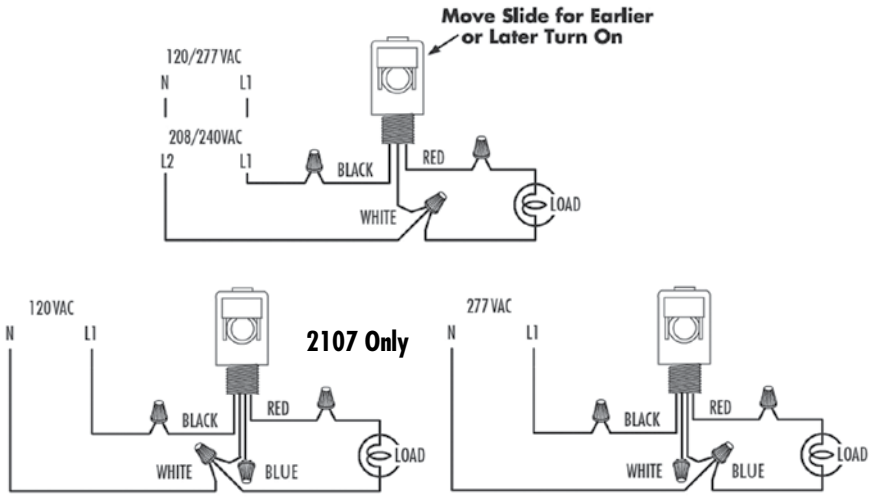
**STANDARDS:** Meets ANSI/UL773A.

**HOUSING:** Heavy Duty die cast zinc housing and base. Gasketed for maximum weather protection.

**ENERGY SAVINGS:** Works with screw base CFLs.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2101 | 60012 | 120 | 2000W | 1800VA | 600VA* |
| 2104 | 60013 | 208-277 | 2000W | 1800VA | 600VA* |
| 2107 | 60031 | 120/277 | 2000W | 1800VA | 600VA* |
| 73866 | 62020 | Mounting Bracket | - | - | - |

*LED rating for UL only.



# 2110 SERIES
## 1/2" CONDUIT MOUNTING
## DIE CAST ALUMINUM PHOTOCONTROL




## APPLICATIONS

- Parking lot lighting
- Building perimeter lighting
- Outdoor signage

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**STANDARDS:** Meets ANSI/UL773A.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

**HOUSING:** Die cast aluminum housing and base. Gasketed for weather protection.

**ENERGY SAVINGS:** Works with screw base CFLs.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy conformal coated 1/2" diameter. MODEL 2117 is 1" cell.

**CONTACTS:** Remain closed between dusk and dawn (the unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C. (2117 #10AWG red and black).

**POWER CONSUMPTION:** Averages under 1 watt.

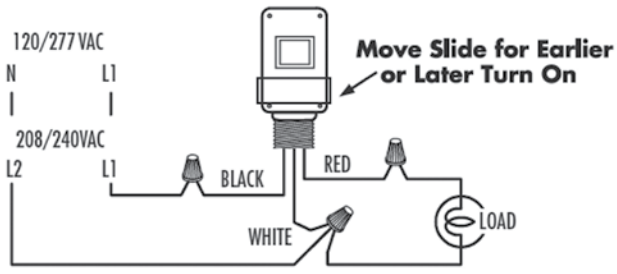
**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2115 | 60032 | 120 | 2000W | 1800VA | 600VA |
| 2116 | 60033 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| 2117* | 60037 | 120 | 3000W | 3000VA | - |
| 73866 | 62020 | Mounting Bracket | - | - | - |

*Not UL or CSA rated.



# 2000 SERIES

## 1/2" CONDUIT MOUNTING
## FIXED POSITION, LEXAN® HOUSING
## WITH WEATHERPROOF SEALANT
## PHOTOCONTROL



LISTED FOR LED

## APPLICATIONS

- Flood lamp
- Patio lamp
- Decorative lighting

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

**STANDARDS:** Meets ANSI/UL773A.

**HOUSING:** All Lexan® enclosures are impact and vandal resistant. Translucent Lexan® Dome prolongs cell life by further screening out ultraviolet rays. Dome and base are ultrasonically welded for maximum strength.

**ENERGY SAVINGS:** Works with screw base CFLs.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy comformal coated 1/2" diameter.

**CONTACTS:** Remain closed between dusk and dawn. (The unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.

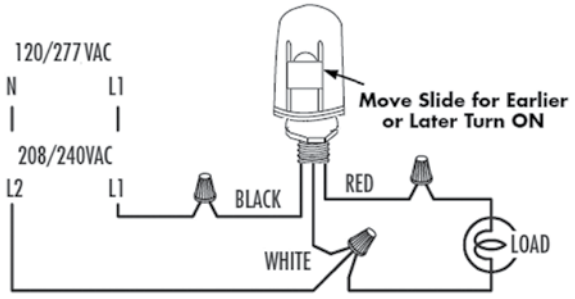
**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2000 | 60017 | 120 | 2000W | 1800VA | 600VA |
| 2000-2 | 60018 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| 73866 | 62020 | Mounting Bracket | - | - | - |



# 2001 SERIES
## 1/2" CONDUIT MOUNTING
## 180° SWIVEL, LEXAN® HOUSING
## PHOTOCONTROL




## APPLICATIONS

- Flood lamp
- Patio lamp
- Decorative lighting

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy comformal coated 1/2" diameter.

**CONTACTS:** Remain closed between dusk and dawn. (The unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

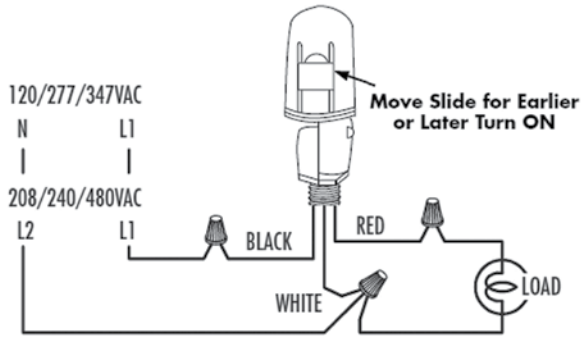
**STANDARDS:** Meets ANSI/UL773A.

**HOUSING:** All Lexan® enclosures are impact and vandal resistant. Translucent Lexan® Dome prolongs cell life by further screening out ultraviolet rays. Dome and base are ultrasonically welded for maximum strength.

**ENERGY SAVINGS:** Works with screw base CFLs.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2001 | 60015 | 120 | 2000W | 1800VA | 600VA |
| 2002 | 60016 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| NEW! 2006* | 60028 | 347 | 5760W | 3470VA | - |
| 2018** | 62021 | 480 | 7500W | 4800VA | - |
| 73866 | 62020 | Mounting Bracket | - | - | - |

*CSA certified only. **Not UL or CSA rated.



# 2020 SERIES
## 1/2" CONDUIT MOUNTING
## 180° SWIVEL, LEXAN® HOUSING
## PHOTOCONTROL



LISTED FOR LED

## APPLICATIONS

- Flood and patio lamps
- Decorative lighting
- Ideal for applications where it is essential to aim the photocell in an exact direction to sense natural light but avoid artificial light.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, epoxy conformal coated 1/2" diameter.

**CONTACTS:** Normally closed (the unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

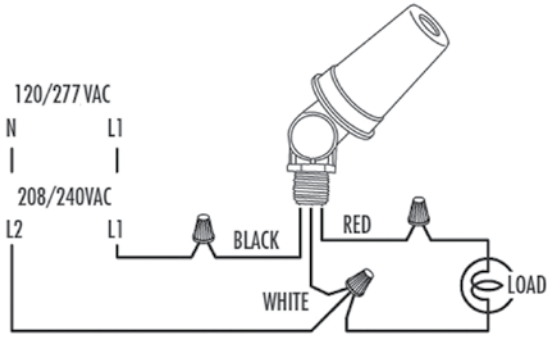
**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

**STANDARDS:** Meets ANSI/UL773A.

**HOUSING:** All Lexan® enclosures are impact and vandal resistant, cover and base are ultrasonically welded for maximum strength.

**ENERGY SAVINGS:** Works with screw base CFLs.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 2021 | 60024 | 120 | 2000W | 1800VA | 600VA |
| 2022 | 60025 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| 73866 | 62020 | Mounting Bracket | - | - | - |



# 3000 SERIES
## FLUSH MOUNTING LEXAN® HOUSING PHOTOCONTROL



Flush Mounting
Model 3010

## APPLICATIONS

- Pole lanterns
- Lawn lighting
- Walkways

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, conformal coated 1/2" diameter.

**CONTACTS:** Normally closed (the unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 9" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °F).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

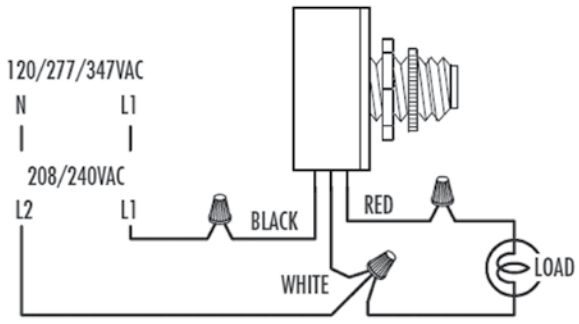
**STANDARDS:** Meets ANSI/UL773A.

**HOUSING & MOUNTING:** Control housing is weather-resistant molded Lexan® with ultrasonically welded seams.
MODEL 3000: Flush mounting through .6875" hole in post lantern or lighting fixture, ⅜" NPT, stem ¾" long. Gasket and nut supplied.
MODEL 3010: flush mounting into standard, raintight junction box. Includes aluminum plate and gasket to fit FS type outdoor junction box.

**ENERGY SAVINGS:** Works with screw base CFLs.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | RATING | | LED |
|---|---|---|---|---|---|
| | | | TUNGSTEN | BALLAST | |
| 3000 | 60020 | 120 | 2000W | 1800VA | 600VA |
| 3002 | 60019 | 208-277 | 3470-4620W | 2080-2770VA | 1040-1385VA |
| NEW! 3006 | 60026 | 347 | 5760W | 3470VA | - |
| 3010 | 60021 | 120 | 2000W | 1800VA | 600VA |

*CSA certified only.



# 5000M SERIES

## DELAYED RESPONSE UTILITY GRADE MOV SURGE ARRESTOR PHOTOCONTROL



## APPLICATIONS

- For use on streets, highways and other luminaries equipped with locking type receptacles, where most stringent surge protection is needed.

## SPECIFICATIONS

**ON/OFF:** Turn-ON is 1 to 3 fc. Turn-OFF to Turn-ON ratio is 5 max.

**TIME DELAY:** ON and OFF.

**CELL:** CdS, epoxy conformal coated ½" and 1" diameter models.

**SURGE ARRESTOR:** 380 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.

**LOCKING PRONGS:** Solid brass for maximum corrosion resistance and electrical conductivity.

**TEMPERATURE RANGE:** -40 °F to +140 °F (-40 °C to +60 °C).

**FAIL MODE:** ON.

**WARRANTY:** 3 years.

## FEATURES

**SENSOR:** Conformal coated CdS photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delayed response prevents false switching due to light from vehicles or lighting, etc.

**STANDARDS:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.

**ANSI DOME COLOR-CODE:** Grey 105-130VAC, Maroon 208-277VAC, Blue 105-285VAC, Yellow 480VAC, Green 347VAC.

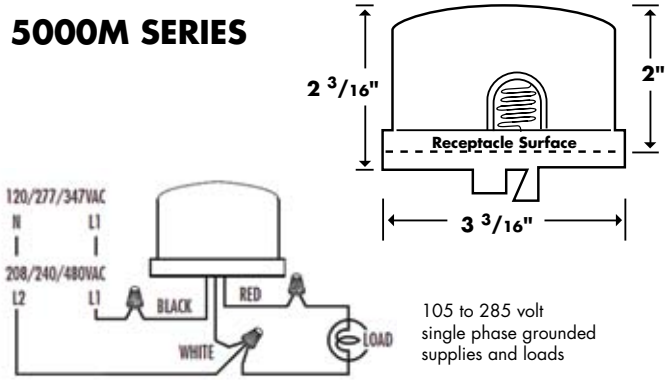
**HOUSING:** Polycarbonate housing and window, UV stabilized for permanent color. Provides high impact performance, flammability resistance, and electrically safe operations.

**CONTACTS:** Bi-metal provides positive snap action switching, reducing bounce and prolonging contact life.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | LIGHT SENSOR | RATING | |
|---|---|---|---|---|---|
| | | | | TUNGSTEN | BALLAST |
| 5001M | 61012 | 105-130 | 1" | 2000W | 1800VA |
| 5004M | 61013 | 208-277 | 1" | 3470-4620W | 2080-2770VA |
| 5007M | 61014 | 105-130/208-285 | 1/2" | 2000W/ 3470-4620W | 1800VA/ 2080-2770VA |
| 5008M* | 61017 | 480 | 1" | 7500W | 4800VA |
| 5021M | 61015 | 105-130 | 1/2" | 2000W | 1800VA |
| 5024M | 61016 | 208-277 | 1/2" | 3470-4620W | 2080-2770VA |
| NEW! 5026M** | 61045 | 347 | 1/2" | 5760W | 3470VA |

*Not UL listed or CSA certified. **CSA certified only.

### 5000M SERIES




105 to 285 volt single phase grounded supplies and loads

# 5400A SERIES
## CONTACTORS WITH TURN-LOCK PHOTOCONTROL




## APPLICATIONS

- For street lighting. Controls all lighting loads in excess of the capacity of the photoelectric control contacts.

## SPECIFICATIONS

**RECEPTACLE:** 3-prong turn-lock meets the requirements of EEI NEMA.

**POWER CONSUMPTION:** Maximum 3 watts during daylight.



| CAT. NO. | UPC CODE | PHOTOCONTROL INCLUDED | VOLTAGE (VAC) 60Hz | SWITCH |
|---|---|---|---|---|
| 5403A | 81012 | 2005B | 120 | DPST |
| 5404A | 81013 | 2007B | 208-240 | DPST |
| 5404-3A | 81014 | 2007B | 277 | DPST |

## FEATURES

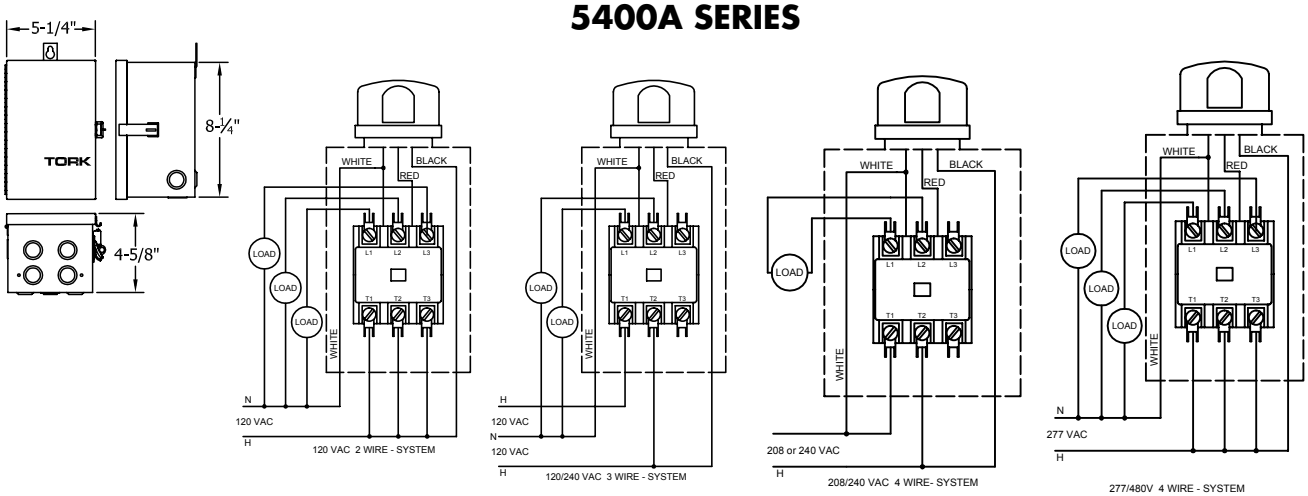
**OPERATION:** Delay up to two minutes to prevent false switching due to light from passing vehicles, lighting, etc. Photocontrol provides dusk to dawn control of lighting contactor for heavy duty switching.

**STANDARDS:** Meets UL773 and ANSI C136.10 for photocontrols.

**HOUSING:** Outdoor NEMA Type 3R. Beige enamel finish. Two 1/2"– 3/4" combination KO in bottom.

| TYPE | VOLTAGE (VAC) | CONTACT RATING PER POLE |
|---|---|---|
| Resistive | 120-277 | 40A |
| Tungsten | 120 | 30A |
| Ballast | 120-277 | 40A |
| LED | 120-277 | 40A |
| Motor | 120<br>240 | 3HP<br>7.5HP |

## 5400A SERIES



# 2005A SERIES
## INSTANT RESPONSE TURN-LOCK PHOTOCONTROL



## APPLICATIONS

- For state and county DOT & municipalities use on roadway and bridges. Also use for general commercial facilities.

## SPECIFICATIONS

**ON/OFF:** Turn-ON is 1.5 foot candle +/-0.5 OFF/ON ratio is 1.5:1 average.

**TIME DELAY:** Instant ON/3-5 seconds OFF.

**CELL:** CdS, epoxy conformal coated ½" diameter.

**RELAY:** Rated life 6,000 operations

**SURGE ARRESTOR:** 360 joules MOV exceeds NEMA and ANSI requirements.

**LOCKING PRONGS:** Solid brass prongs for maximum corrosion resistance and electrical conductivity.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °C).

**FAIL MODE:** ON.

**WARRANTY:** 3 years.

## FEATURES

**SENSOR:** Conformal coated CdS photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

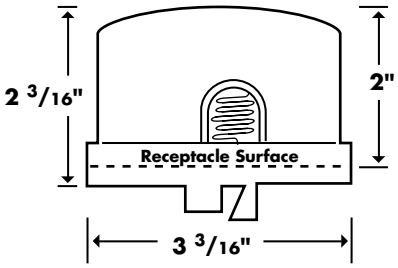
**STANDARDS:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.

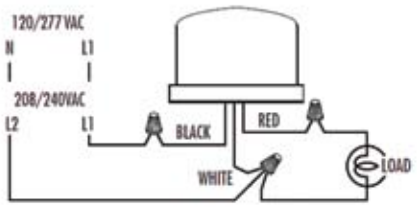
**HOUSING:** Polypropylene, UV stabilized, permanent color with UV resistant clear acrylic window. Provides high impact, flammability resistance and electrically save operations.

**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | RATING | |
|---|---|---|---|---|---|
| | | | | TUNGSTEN | BALLAST |
| 2005A | 62012 | 105-130 | Grey | 1000W | 1800VA |
| 2007A | 62013 | 105-285 | Blue | 1000W | 1800VA |

### 2005A SERIES




105 to 285 volt single phase grounded supplies and loads

# 2005B SERIES
## INSTANT RESPONSE TURN-LOCK PHOTOCONTROL




## APPLICATIONS

- For state and county DOT & municipalities use on roadway and bridges. Also use for general commercial facilities.

## SPECIFICATIONS

**ON/OFF:** Turn-ON is 1.5 foot candle +/-0.2 OFF/ON ratio is 1.5:1 average.

**TIME DELAY:** Instant ON/3-5 seconds OFF.

**CELL:** Molded sealed IR filtered sensor

**RELAY:** Rated life 6,000 operations

**SURGE ARRESTOR:** 360 joules MOV exceeds ANSI and NEMA requirements.

**LOCKING PRONGS:** Solid brass prongs for maximum corrosion resistance and electrical conductivity.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °C).

**FAIL MODE:** ON.

**WARRANTY:** 6 years.

## FEATURES

**SENSOR:** Molded sealed IR filtered sensor resists effects of moisture and airborne contaminants. IR filter responds to the light spectrum near to that of a human eye.

**STANDARDS:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.

**HOUSING:** Polycarbonate housing and window, UV stabilized for permanent color. Polycarbonate provides high impact performance, flammability resistance, and electrically safe operations.

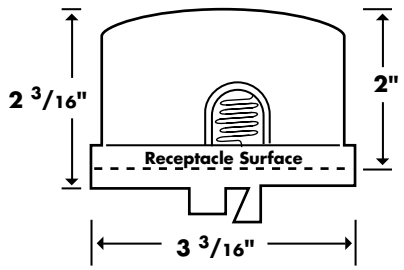
**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

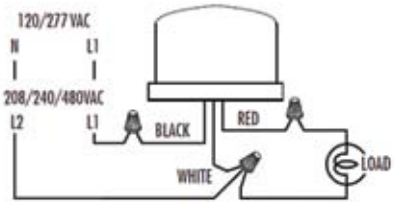
**CUSTOM:** Available for custom design to meet specific utility specification including light level activation and dome colors. Dome colors available include Black, Brown, Orange and Green along with ANSI colors.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | RATING | | LED |
|---|---|---|---|---|---|---|
| | | | | TUNGSTEN | BALLAST | |
| 2005B | 60015 | 105-130 | Grey | 1000W | 1800VA* | 4 Amps |
| 2007B | 60016 | 105-305 | Blue | 1000W | 1800VA* | 4 Amps |
| 2008B** | 62017 | 400-550 | Yellow | 1000W | 1800VA | 4 Amps |

*cUL Listed 1000VA. ** Not UL or cUL Listed.

### 2005B SERIES




105 to 305 volt single phase grounded supplies and loads

# 5200A SERIES
## UTILITY GRADE ELECTRONIC WITH FAIL ON MODE PHOTOCONTROL



## APPLICATIONS

- Designed meet local utility standards for street and highway lighting controls.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1.5 foot candle +/- 0.2 OFF/ON ratio is 1.5:1 average*.

**TIME DELAY:** Instant ON/3-5 second OFF.

**CELL:** Molded sealed IR filtered sensor.

**RELAY:** Rated life 5,000 operations.

**SURGE ARRESTOR:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.

**LOCKING PRONGS:** Solid brass for maximum corrosion resistance and electrical conductivity.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °C).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Molded sealed IR filtered sensor resists effects of moisture and airborne contaminants. IR filtered responds to the light spectrum near to that of a human eye.

**STANDARDS:** Meets ANSI C136 including color designations. Also meets EEI NEMA standards.

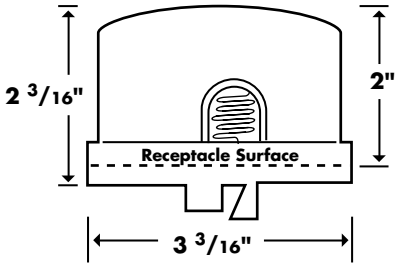
**HOUSING:** Polycarbonate housing and window, UV stabilized for permanent color. Polycarbonate provides high impact performance, flammability resistance, and electrically safe operations.

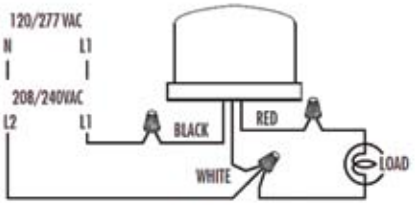
**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

**CUSTOM:** available for custom design to meet specific utility specification including light level activation and dome colors. Dome colors available include Black, Brown, Orange and Green along with ansi colors.

| CAT.NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | RATING | |
|---|---|---|---|---|---|
| | | | | TUNGSTEN | BALLAST |
| 5231A | 78898 | 105-130 | Grey | 1000W | 1800VA |
| 5237A | 78899 | 105-305 | Blue | 1000W | 1800VA |

### 5200A SERIES




105 to 305 volt single phase grounded supplies and loads

# 5200-UL
## INSTANT RESPONSE TURN-LOCK PHOTOCONTROL




## APPLICATIONS

- Designed meet local utility standards for street and highway lighting controls.

## SPECIFICATIONS

**ON/OFF:** Turn ON is 1.5 foot candle +/- 0.2 OFF/ON ratio is 1.5:1 average.

**TIME DELAY:** Instant ON/3-5 second OFF.

**CELL:** Molded sealed IR filtered sensor

**RELAY:** Rated life 6,000 operations

**SURGE ARRESTOR:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.

**LOCKING PRONGS:** Solid brass for maximum corrosion resistance and electrical conductivity.

**CUSTOM:** Available for custom design to meet specific utility specification.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °C).

**FAIL MODE:** ON.

**WARRANTY:** 8 years.

## FEATURES

**SENSOR:** Molded sealed IR filtered sensor resists effects of moisture and airborne contaminants. IR filter responds to the light spectrum near to that of a human eye.

**STANDARDS:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.

**HOUSING:** Polycarbonate housing and window, UV stabilized for permanent color. Polycarbonate provides high impact performance, flammability resistance, and electrically safe operations.

**ENERGY SAVINGS:** Listed for use with LED lamp drivers.

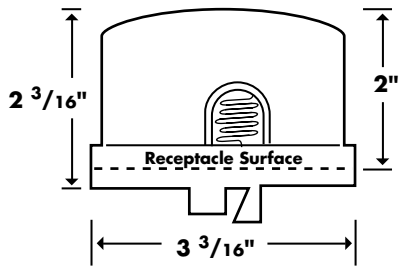
**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

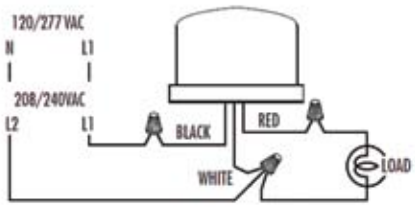
**CUSTOM:** Available for custom design to meet specific utility specification.

| | CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | RATING TUNGSTEN | RATING BALLAST | RATING LED |
|---|---|---|---|---|---|---|---|
| NEW! | 5237-UL | 78895 | 105-305 | Blue | 1000W | 1800VA* | 1000W |

*cULus Listed 1000VA.

### 5237-UL




105 to 305 volt single phase grounded supplies and loads

# 5737 SERIES

**ON AT DUSK, OFF AT MIDNIGHT**
**ON EARLY MORNING,**
**OFF AT DAWN**
**PHOTO-TIMERS**




## APPLICATIONS

- Offices
- Restaurant signage
- Billboards
- Landscape and yard lighting

- Ideal for situations when visible traffic is reduced – lights ON at dusk and OFF at 10pm or later, then on again for early morning illumination.

## FEATURES

**OPERATION:** Microprocessor tracks the dusk and dawn times with the seasons and automatically determines midnight, NO PROGRAMMING REQUIRED. Automatically "re-learns" and resets after power outage, eliminating costly maintenance. DST correction built in.

**STANDARDS:** Meets ANSI C136.10 including color designations. Also meets EEI NEMA standards.

**HOUSING:** UV stabilized, ANSI color-coded polypropylene dome. UV stabilized, clear acrylic window. ABS base. Cross-linked, polypropylene gasket.

**CONTACTS:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

## SPECIFICATIONS

**ON/OFF:** Turn ON at dusk is 5.0 foot candle +/- 0.5 OFF/ON ratio is 1.5:1 average.

**TIME DELAY:** Instant ON/3-5 seconds OFF.

**CELL:** Silicon photosensor

**SURGE ARRESTOR:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.

**5737TM HALF-NIGHT FUNCTION:** Allows user to adjust OFF time during the night. OFF time can be set for up to two hours before (for extra energy savings) or up to two hours after midnight. Use to stagger groups of lights to go OFF at different times during the night.

**5737TZ TWO FUNCTION:**
1) Standard: Set as a Dusk to Dawn photocontrol.
2) Half-night & Pre-Dawn: Turns on at Dusk. User adjusts OFF time for up to two hours before or after midnight. Then set countdown to Pre-dawn ON again 2 - 10 hours later. It always turns OFF at Dawn.

**LOCKING PRONGS:** Solid brass Prongs for maximum corrosion resistance and electrical conductivity.

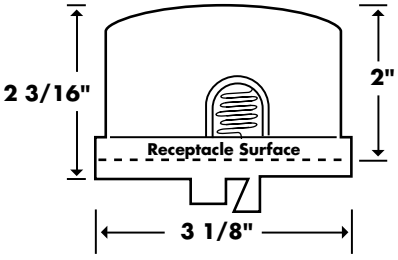
**TEMPERATURE RANGE:**
-40 °F to +158 °F (-40 °C to +70 °C).

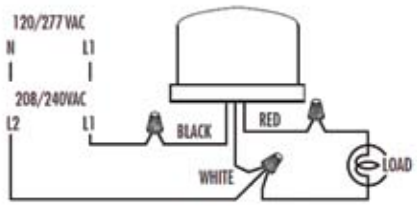
**FAIL MODE:** ON.

**WARRANTY:** 3 years.

| CAT. NO. | UPC CODE | VOLTAGE (VAC) 50-60Hz | COLOR | SWITCH | RATING | |
|---|---|---|---|---|---|---|
| | | | | | TUNGSTEN | BALLAST |
| 5737TZ | 62010 | 105-305 | Blue | SPST | 1000W | 1800VA |
| 5737TM | 62009 | 105-305 | Grey | SPST | 1000W | 1800VA |

## 5237 SERIES




**105-305 VAC**
**single phase grounded supplies and loads**

# PHOTOCONTROL ACCESSORIES
## FOR TURN-LOCK CONTROLS



### REPLACEMENT CAPS

5500 replaces photocontrol to change light fixture to always ON.
5500-OC replaces photocontrol to change light fixture to always OFF.
Durable materials and gasket provide longevity and weatherproof protection.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 5500 | 61130 | Shorting cap, 480VAC max 1800W Tungsten, 1800VA Ballast |
|  | 5500-OC | 61132 | Open cap, 480VAC max (Black housing) |

### MOUNTING BRACKET

Utility mounting bracket for 1/2" threaded conduit photocontrols.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 73866 | 62020 | Mounting Bracket |

### RECEPTACLE

120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, mounting bracket and one mounting screw.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 2224 | 61026 | Receptacle and mounting bracket |

### RECEPTACLE

120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, gasket and two mounting screws.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 2223 | 61025 | Receptacle with gasket |

### RECEPTACLE

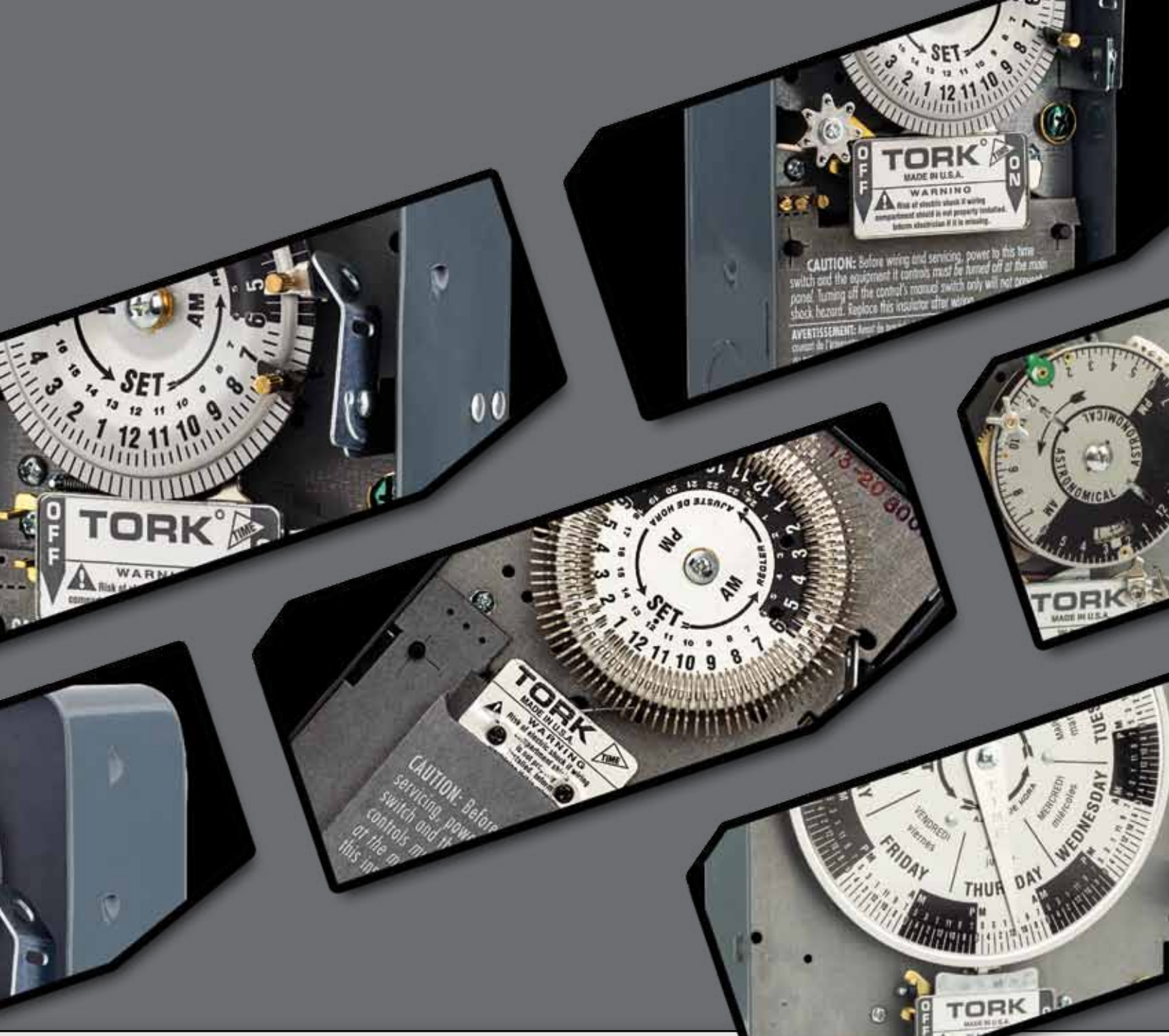
120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, plastic housing, lock nut (with 1/2" NPT) and a mounting bracket.

| DEVICE | CAT NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
|  | 2421 | 61021 | Receptacle with plastic housing and bracket |



NSi offers many splicing options to complete the pole installation.
See the splicing section pages 217- 238.


12
9
6
POWER




# TORK® ELECTROMECHANICAL TIME SWITCHES

# QUICK REFERENCE GUIDE

| SERIES | PAGE NO. | CLOCK DIAL | MINIMUM SETTINGS (MINUTES) ON | MINIMUM SETTINGS (MINUTES) OFF | SKIP A DAY | MANUAL OVERRIDE | SUNRISE/ SUNSET | MAX ON & OFF EVENTS PER DAY | SWITCH TYPES | RATINGS (AMPS) | RESERVE POWER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TU40 | 453 | 24 Hour | 15 | 15 | | Permanent | | 48 | SPST, DPST, SPDT, DPDT | 40 | |
| 1100 | 455 | 24 Hour | 20 | 75 | | Yes | | 12 | SPST, DPST | 40 | |
| 7000 | 457 | 24 Hour | 20 | 75 | Yes | Yes | | 12 | SPST, DPST, SPDT, DPDT, 3PST | 40 | Available |
| 7000Z | 459 | 24 Hour | 20 or 40 Minute Offset | | Yes | Yes | SunSet | 1 | DPST, SPDT, 3PST | 40 | Available |
| TZ | 473 | 24 Hour | 20 or 40 Minute Offset | | Yes | Permanent by circuit | SunSet | 1 | DPDT, 3PST | 20 | Standard |
| W | 467 | 7 Day | 60 | 120 | Yes | Yes | | 2 | SPST, DPST, SPDT, DPDT, 3PST 4PST | 40 | Available |
| TW | 471 | 7 Day | 60 | 120 | Yes | Permanent by circuit | | 2 | DPDT, 3PST | 20 | Standard |
| T900 | 469 | 7 Day | 60 | 120 | Yes | Permanent by circuit | Photo Control | 2 | 2 SPDT 3 SPDT | 20 | Standard |
| 1847A | 465 | 24 Hour | 20 | 75 | Yes | | | 12 | SPDT, Momentary Contact | 10 | Available |
| 1847AW | 465 | 7 Day | 60 | 120 | Yes | Yes | | 2 | SPDT, Momentary Contact | 10 | Available |
| 8000 | 461 | 24 Hour | 15 | 15 | Available | | | 48 | SPDT | 20 | Available |
| 8000 | 463 | 6, 12, 30 & 60 Min. | Varies by dial 6 sec. to 1 min. | | | | | 30/dial | SPDT | 20 | |
| WH2B | 464 | 24 Hour | 20 | 75 | | Yes | | 12 | DPST | 40 | |

# FEATURES

## EASY TO SET DIAL ASSEMBLY




Tork's 24 hour dial assembly allows the user to set the time switch more accurately, easily moving it by hand in small increments. Dial can provide up to 12 ON/OFFs per day with cycles as short as 20 minutes. AM and PM settings are easy to see by the light and dark areas of the dial.

## CAPTIVE TABS – DUTY CYCLE DIAL




For applications requiring many ON/OFF cycles per day, captive tabs on this dial tilt in and out just using your fingertip!

## FIELD UPGRADEABLE TO SunSet DIALS




All Tork 24 hour time switches can be upgraded in the field to a SunSet timer dial.

## SPRING WOUND RESERVE



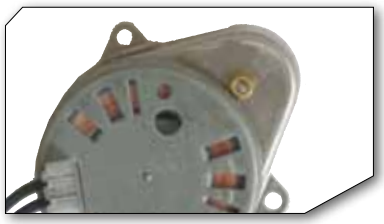
During power outages, precision spring mechanism takes over instantly and automatically. Keeps the mechanism on time up to 16 hours on 24 hour models and up to 24 hours on 7 day models. No resetting is needed after power resumes, and field installation is easy.

## REMOVABLE DOOR



Tork time switches feature removable doors to provide easy access for installation and wiring.

## ENCLOSED MOTOR



Time switch motors are enclosed to protect from dust and damage.

## QUALITY ASSURANCE

**TORK**® *Electromechanical Controls are designed and manufactured with components which adhere to the highest industry standards. Trained personnel and in-process quality procedures ensure that every unit meets our strictest quality expectations.*

# TU40 SERIES
## UNIVERSAL MULTI-VOLTAGE
## SAME ON/OFF TIMES EACH DAY
## 24 HOUR TIME SWITCH




**ALL PURPOSE CONTACTS, HOUSING, & VOLTAGES!**

## APPLICATIONS

- Lighting
- Pumps
- Signs
- Air conditioning
- Water heaters
- Fans

## FEATURES

**MULTI-VOLTAGE:** Automatic input voltage detection.

**EASY SET:** Real time clock face and day/night markings for setting trippers.

**SCHEDULING:** Minimum ON is setting 15 minutes. Dial has 96 captive trippers.

**4 in 1 CONTACTS:** DPDT can also wire as SPST, SPDT, & DPST.

**BYPASS SWITCH:** Sets timer to permanent ON, OFF or timer operation.

**VACATION MODE:** Set timer OFF with no change of tripper settings.

**INDICATING LIGHTS:** Power ON green and load ON red and LED indicators.

**STANDARDS:** Listed UL60370 (formerly UL917).

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 60Hz | DRY CONTACTS (UNPOWERED) | ENCLOSURE TYPE |
|---|---|---|---|---|
| TU40 | 24000 | 120/208-240/277 | DPDT | Plastic Indoor/Outdoor NEMA 3R |
| TU40-Y | 24001 | 120/208-240/277 | DPDT | Metal Indoor NEMA 1 |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120/208-240/277VAC, 60Hz (auto detection).

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #18 AWG.

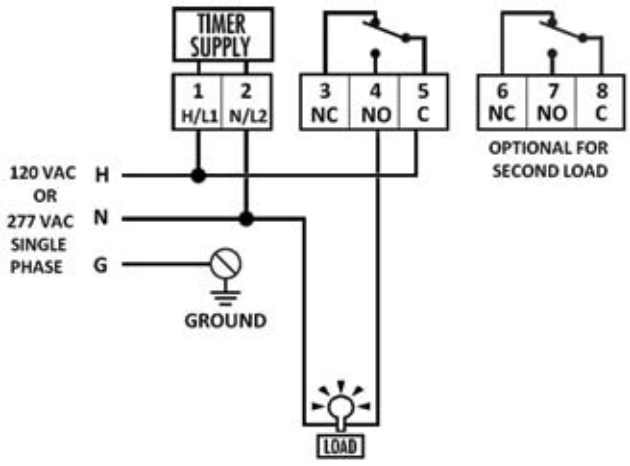
**OPERATING TEMPERATURE:** -31°F to 116°F (-35°C to +47°C).

**POWER CONSUMPTION:** 6 watts maximum.

**ENCLOSURE:** Polycarbonate Indoor/Outdoor NEMA 3R or -Y suffix metal indoor NEMA 1 enclosure. Both with lockable hasp standard (See pages 589-593 for dimensions).

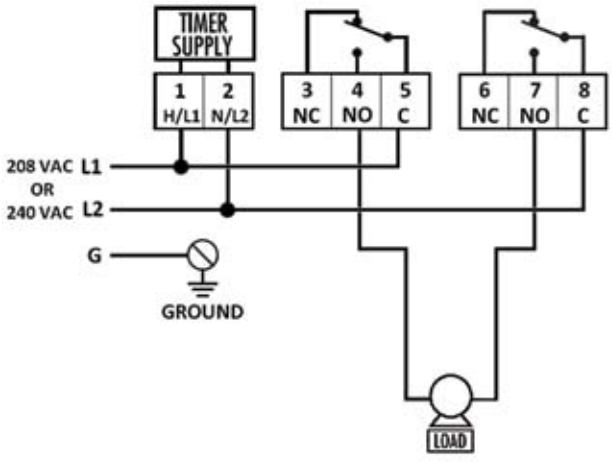
| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| General Purpose | 120-277 | 40A | 30A |
| Inductive | 120-277 | 30A | 15A |
| Ballast | 120 | 30A | 10A |
| | 277 | 20A | 10A |
| Tungsten | 120 | 15A | |
| Motor Load | 120 | 1HP, 30FLA, 90LRA | ¼HP, 12FLA, 30LRA |
| | 240 | 2HP, 20FLA, 60LRA | ½HP, 12FLA, 33LRA |
| Pilot Duty | 120 | 720VA | 290VA |
| | 240 | 720VA | 360VA |
| Resistive | 28VDC | 20A | |
| Max above 104°F | 120-277 | 30A | |

TYPICAL SPST WIRING - LOAD SAME VOLTAGE AS TIMER SUPPLY




CONNECT LINE VOLTAGE (H) TO TERMINAL 5

TYPICAL DPST WIRING - LOAD SAME VOLTAGE AS TIMER SUPPLY




CONNECT LINE VOLTAGE (L1) TO TERMINAL 5
CONNECT LINE VOLTAGE (L2) TO TERMINAL 8

# 1100 SERIES
## SAME DAY ON/OFF TIMES EACH DAY
## 24 HOUR TIME SWITCH




## APPLICATIONS

- Lighting
- Pumps
- Signs
- Air conditioning
- Water heaters
- Fans

- Automatic ON/OFF control when operation is required at the same time every day.

## FEATURES

**SCHEDULING:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF automatic operation then resumes.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 1101B | 10064 | 120 | SPST | Metal Indoor NEMA 1 |
| 1101B-P | 10068 | 120 | SPST | Polycarbonate Indoor/ Outdoor NEMA 3R |
| 1101B-PC | 10095 | 120 | SPST | Polycarbonate Outdoor w/ clear cover NEMA 3R |
| 1101BM-IAP | 10073 | 120 | SPST | Mechanism and retrofit plate |
| 1101-7 ** | 10033 | 347 | SPST | Metal Indoor NEMA 1 |
| 1102B | 10065 | 208-277 | SPST | Metal Indoor NEMA 1 |
| 1103B | 10066 | 120 | DPST | Metal Indoor NEMA 1 |
| 1103B-P | 10069 | 120 | DPST | Polycarbonate Indoor/ Outdoor NEMA 3R |
| 1103B-PC | 10096 | 120 | DPST | Polycarbonate Outdoor w/ clear cover NEMA 3R |
| 1103B-O | 10098 | 120 | DPST | Metal Indoor/Outdoor NEMA 3 |
| 1104B | 10067 | 208-277 | DPST | Metal Indoor NEMA 1 |
| 1104B-P | 10070 | 208-277 | DPST | Polycarbonate Indoor/ Outdoor NEMA 3R |
| 1104B-PC | 10097 | 208-277 | DPST | Polycarbonate Outdoor w/ clear cover NEMA 3R |
| 1104B-O | 10075 | 208-277 | DPST | Metal Indoor/Outdoor NEMA 3 |
| 1104BM-MB | 10076 | 208-277 | DPST | Mechanism and surface mounting bracket |
| 1104BM-IAP | 10074 | 208-277 | DPST | Mechanism and retrofit plate |
| Replacement Trippers | Order #P47 for a pair of ON/OFF trippers | | | |
| Replacement Motor | #101 (120V) & #201 (208-277V) | | | |
| SunSet Conversion | Astronomic dial. Consult factory for correct number for your latitude | | | |

** 1101-7 CSA only

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277 VAC 60 Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14 AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts maximum.

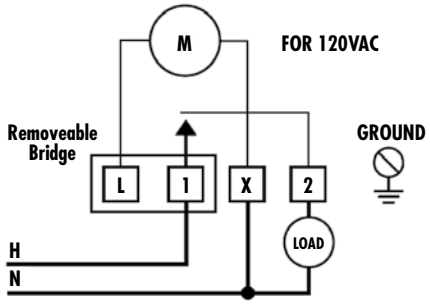
**ENCLOSURE:** Lockable hasp. Type varies by model (See pages 589-593 for dimensions).

**OTHER MOUNTINGS:** Intermatic® Adaptor Plate model #IAP allows any 1100 series to fit into an Intermatic case.

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120 -277 | 40A |
| Resistive | 120 -277 | 40A |
| Tungsten | 120 | 40A |
| Ballast | 120-277 | 20A |
| NEW! LED Driver | 120-277 | 20A |
| Pilot Duty | 120<br>240 | 1000VA<br>2000VA |
| Motor | 120<br>240 | 2HP<br>5HP |
| 277VAC Single Phase | | |

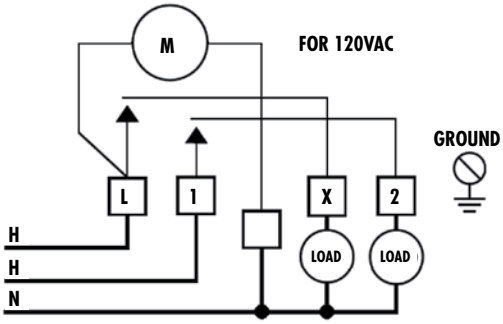
1101-7 is 30 AMP inductive at 347 volts and CSA only

### 1101 & 1102

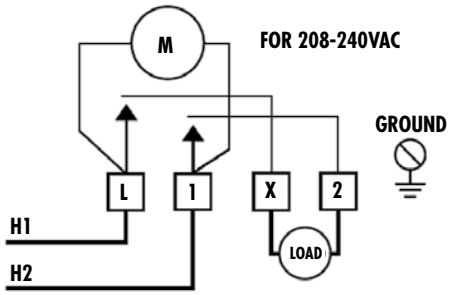


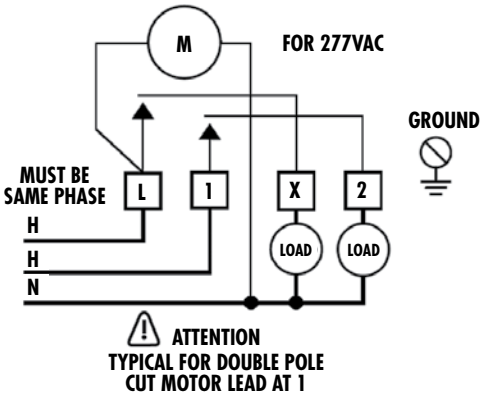

For separate motor terminals remove bridge from terminal L&1.

### 1103




### 1104



# 7000 SERIES
## WITH SKIP-A-DAY FEATURE
## RESERVE POWER OPTIONAL
## 24 HOUR TIME SWITCH




**SKIP-A-DAY**
**24 HOUR!**

## APPLICATIONS

- Lighting
- Heating
- Pumps
- Air conditioning
- Signs

- Automatic ON/OFF control when operation is required at the same time every day, with optional versatility of one to six days omission.

## FEATURES

**SCHEDULING:** Minimum ON setting is 20 minutes with minimum OFF setting at 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.

**SKIP-A-DAY:** Omit operations on any day with a 7-spoke wheel marked with days of week. 3 omitting screws included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 16 hours during power outage.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 7100 | 10001 | 120 | SPST | Metal Indoor NEMA 1 |
| 7102 | 10002 | 208-277 | SPST | Metal Indoor NEMA 1 |
| 7200 | 11001 | 120 | DPST | Metal Indoor NEMA 1 |
| 7202 | 11002 | 208-277 | DPST | Metal Indoor NEMA 1 |
| 7300 | 12001 | 120 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7302 | 12002 | 208-277 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7120 | 13001 | 120 | SPDT | Metal Indoor NEMA 1 |
| 7122 | 13002 | 208-277 | SPDT | Metal Indoor NEMA 1 |
| 7220 | 14001 | 120 | DPDT | Metal Indoor NEMA 1 |
| WITH RESERVE POWER | | (Contact factory for lead time) | | |
| 7200L | 19003 | 120 | DPST | Metal Indoor NEMA 1 |
| 7202L | 19004 | 208-277 | DPST | Metal Indoor NEMA 1 |
| 7300L | 19005 | 120 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7120L | 19007 | 120 | SPDT | Metal Indoor NEMA 1 |
| 7220L | 19009 | 120 | DPDT | Metal Indoor NEMA 1 |
| Replacement Trippers | Order #P49 for a pair of ON/OFF per dial. Additional ON/OFF trippers per dial order #P47. 3 omitting screws #53005 supplied. | | | |
| Replacement Motor | #101 (120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V). For Astronomic Conversion: Order #Z KIT for 7000 Series. | | | |
| SunSet Conversion | Astronomic dial. Consult factory for correct number for your latitude | | | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277 VAC 60 Hz varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14 AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

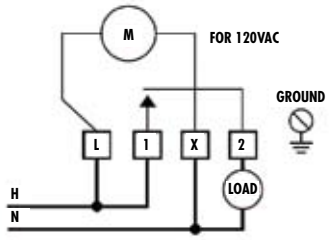
**ENCLOSURE:** Lockable hasp. Type varies by model (See pages 589-593 for dimensions).

**OTHER MOUNTINGS:** Intermatic® Adaptor Plate model #IAP allows any 7100 and 7200 series (except "L" models) to fit into an Intermatic case.

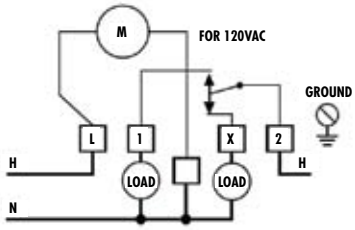
| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120 -277 | 40A |
| Resistive | 120 -277 | 40A |
| Tungsten | 120 | 40A |
| Ballast | 120-277 | 20A |
| Pilot Duty | 120 -277 | 1000VA |
| Motor | 120<br>240 | 2HP<br>5HP |

277 volt Single Phase

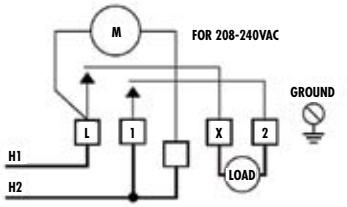
### 7100 & 7102



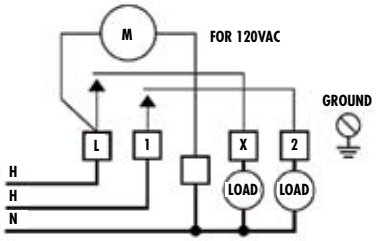

### 7120 & 7122



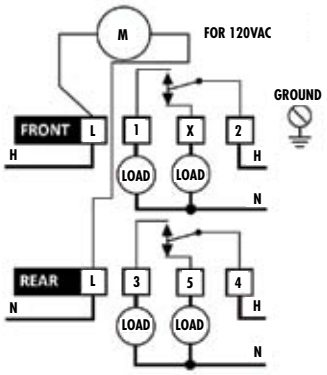

### 7202

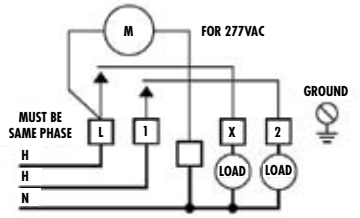



### 7200

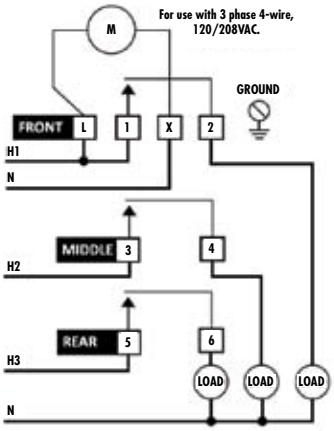



### 7220

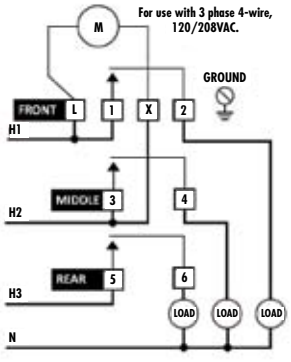


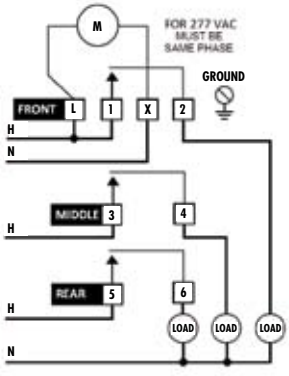




### 7300




### 7302



# 7000Z SERIES

## SunSet WITH SKIP-A-DAY FEATURE
## RESERVE POWER OPTIONAL
## ASTRONOMIC TIME SWITCH



SunSet

**ADJUSTS TO DAILY CHANGES IN SUNSET TIMES!**

## APPLICATIONS

- Parking lots
- Walkways
- Outdoor signage
- Window displays
- Canopy lighting
- Landscape lighting

- Automatic ON at dusk, OFF at dawn. Control of outdoor lighting.

## FEATURES

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times. Available from 18° - 45° northern latitudes.

**SKIP-A-DAY:** Omit operations on any day with a 7 spoke wheel marked with days of the week. 3 omitting screws included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 16 hours during power outage.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 7200Z–* | ** | 120 | DPST | Noryl® Indoor/Outdoor NEMA 3R |
| 7202Z–* | ** | 208-277 | DPST | Noryl® Indoor/Outdoor NEMA 3R |
| 7300Z–* | ** | 120 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7302Z–* | ** | 208-277 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7120Z–* | ** | 120 | SPDT | Noryl® Indoor/Outdoor NEMA 3R |
| WITH RESERVE POWER | | (Contact factory for lead time) | | |
| 7200ZL–* | ** | 120 | DPST | Noryl® Indoor/Outdoor NEMA 3R |
| 7202ZL–* | ** | 208-277 | DPST | Noryl® Indoor/Outdoor NEMA 3R |
| 7300ZL–* | ** | 120 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7302ZL–* | ** | 208-277 | 3PST | Metal Indoor/Outdoor NEMA 3 |
| 7120ZL–* | ** | 120 | SPDT | Noryl® Indoor/Outdoor NEMA 3R |
| Replacement Motor | | #101 (120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V) | | |

*Add degrees latitude to complete number (18, 30, 34, 38, 40, 42, or 45).
**Consult factory for UPC number.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277 VAC 60 Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14 AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

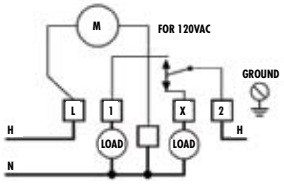
**ENCLOSURE:** Lockable hasp. Type varies by model (See pages 589-593 for dimensions).

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120 -277 | 40A |
| Resistive | 120 -277 | 40A |
| Tungsten | 120 | 40A |
| Ballast | 120-277 | 20A |
| Pilot Duty | 120 -277 | 1000VA |
| Motor | 120<br>240 | 2HP<br>5HP |
| | 277VAC Single Phase | |

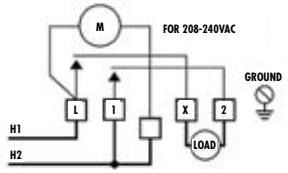
### ASTRONOMIC LATITUDE ZONES

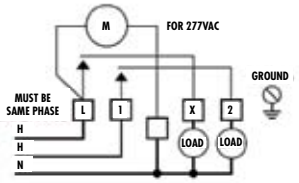



### 7120Z

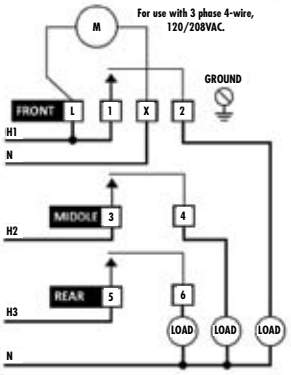



### 7200Z

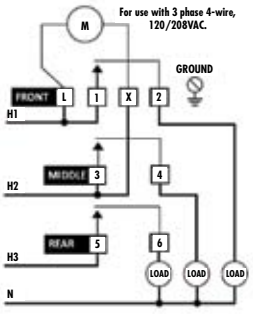


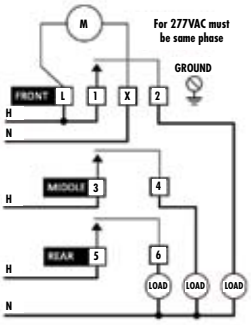




### 7300Z




### 7302Z



# 8000 SERIES

**MANY DAILY ON/OFF OPERATIONS PER DAY**

**DUTY CYCLE**

**24 HOUR TIME SWITCH**




**DUTY CYCLE FOR MULTIPLE ON/OFF OPERATIONS!**

## APPLICATIONS

- Duty cycling
- Ventilating fans
- Pumping
- Irrigation
- Process control
- Laboratory experiments

- For one or multiple daily ON/OFF operations.

## FEATURES

**SCHEDULING:** Minimum ON setting is 15 minutes with minimum OFF setting at 15 minutes. Dial has 96 captive tabs.

**DUTY CYCLE:** Adjustable from ½, 1, 2, 3, 4, 6, 12, and 24 hours.

**SKIP-A-DAY:** Some models include 7 day or 14 day wheel to omit selected days of the week.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 16 hours during power outage.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 8001 | 70001 | 120 | SPDT | Metal Indoor NEMA 1 |
| 8001-N | 70025 | 120 | SPDT | Noryl® Indoor/Outdoor NEMA 3R |
| 8001-NC | 70009 | 120 | SPDT | Noryl® Indoor/Outdoor NEMA 3R w/ clear Lexan® cover |
| 8001-LC/WB | 70010 | 120 | SPDT | Mechanism and bracket |
| 8001-O | 70029 | 120 | SPDT | Metal Indoor/Outdoor NEMA 3 |
| 8004 | 70002 | 208-277 | SPDT | Metal Indoor NEMA 1 |
| 8001U | 70003 | 480/120 Trans. | SPDT | Metal Indoor NEMA 1 |
| 8001U-N | 70014 | 480/120 Trans. | SPDT | Noryl® Indoor/Outdoor NEMA 3R |
| 8001U-O | 70011 | 480/120 Trans. | SPDT | Metal Indoor/Outdoor NEMA 3 |
| 24 HOUR WITH SKIP-A-DAY | | | | |
| 8007 | 70005 | 120 | SPDT | Metal Indoor NEMA 1 |
| 8007-O | 70012 | 120 | SPDT | Metal Indoor/Outdoor NEMA 3 |
| 8008 | 70006 | 208-277 | SPDT | Metal Indoor NEMA 1 |
| 8007U | 70008 | 480/120 Trans. | SPDT | Metal Indoor NEMA 1 |
| 8007U-O | 70028 | 480/120 Trans. | SPDT | Metal Indoor/Outdoor NEMA 3 |
| 24 HOUR WITH SKIP-A-DAY & RESERVE POWER | | | | (Contact factory for lead time) |
| 8007L | 70015 | 120 | SPDT | Metal Indoor NEMA 1 |
| 8008L | 70016 | 208-277 | SPDT | Metal Indoor NEMA 1 |
| Replacement Motor | | #101(120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V) | | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120, 208-277VAC or 480VAC, 60Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

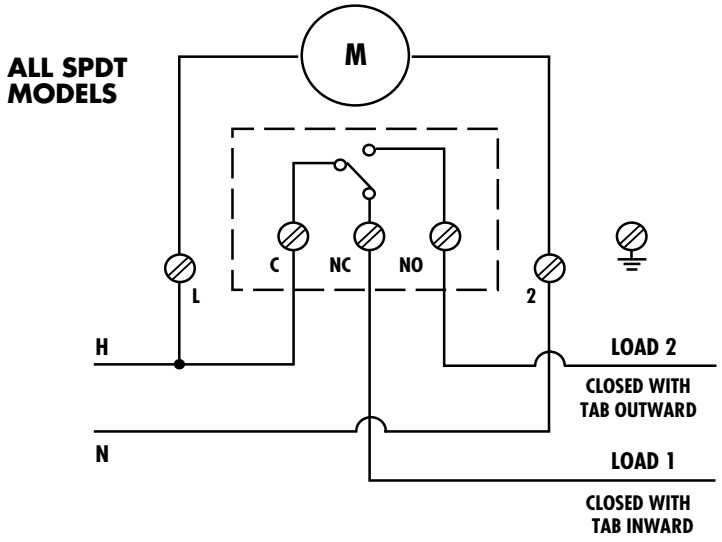
**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

**ENCLOSURE:** Lockable hasp. Type varies by model (See pages 589-593 for dimensions).

**OTHER MOUNTINGS:** Intermatic® Adaptor Plate model #IAP allows 8001 & 8004 to fit into an Intermatic® case.

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| Resistive | 120 or 240<br>480 | 20A<br>20A |
| Motor | 120 | 3/4 HP |



# 8000 SERIES
## MULTIPLE ON/OFF CYCLES
## REPEATING VARIABLE CYCLE
## TIME SWITCH



## APPLICATIONS

- Duty cycling
- Ventilating fans
- Pumping
- Irrigation
- Process control
- Laboratory experiments
- For one or many daily ON/OFF operations.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC, 60Hz.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | TYPE |
|---|---|---|---|---|
| 8601 | 70034 | 120 | SPDT | 60 Minute |
| 8301 | 70033 | 120 | SPDT | 30 Minute |
| 8121 | 70032 | 120 | SPDT | 12 Minute |
| Replacement Motor | For 8601 #102, for 8301 #108, for 8121 #107, and for 8061 #105. | | | |

## FEATURES

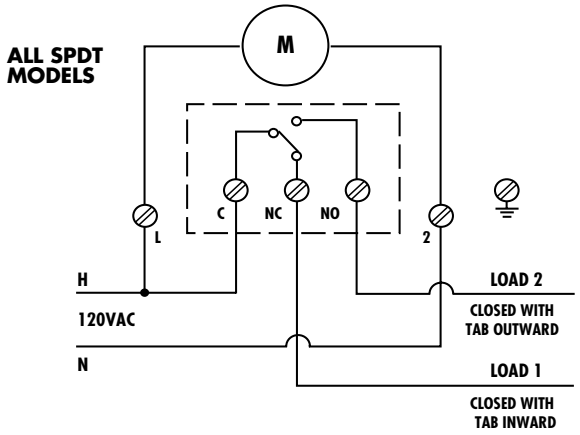
**SCHEDULING:** 60 captive tabs per dial with minimum ON/OFF settings:
– 60 minute dial with 1 minute tabs.
– 30 minute dial with 30 second tabs.
– 12 minute dial with 12 second tabs.

**DUTY CYCLE:** Settings of 1/60 th of dial speed.

**STANDARDS:** Listed UL917.

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| Resistive | 120 or 240<br>480 | 20A<br>20A |
| Motor | 120 | 3/4 HP |

FOR MORE TIMING CHOICES SEE ELECTRONIC EJWT WITH 960 TIMING COMBINATIONS ON PAGES 513-514



# WH2B
## 24 HOUR WATER HEATER TIME SWITCH




Avoid utility peak rates
Turn off when not needed

## APPLICATIONS

Automatic ON/OFF control of electric water heaters. Schedules the water heater to turn ON only when needed, avoiding energy waste when hot water is not needed.

## SPECIFICATIONS

**INPUT VOLTAGE:** 208 – 250V 60 Hz.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| WH2B | 70044 | 208-250 | DPST | Metal Indoor NEMA 1 |

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| Resistive | 208-250 | 40 A 10,000W |
| Replacement Motor | #201 (208-277) | |
| Replacement Trippers | Order #P47 for a pair of ON/OFF trippers | |

FOR A SEVEN-DAY WATER HEATER TIMER SEE ELECTRONIC DTW40 ON PAGES 513-514

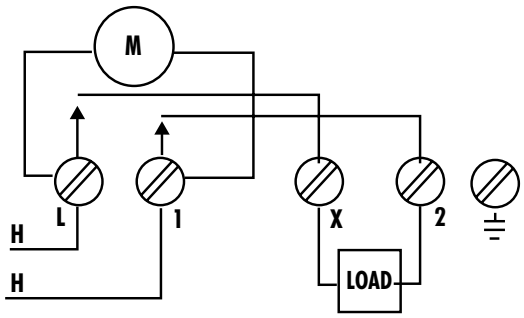
## FEATURES

**SCHEDULING:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs. 3 pairs of trippers supplied.

**EXTERNAL MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF automatic operation then resumes.

**STANDARDS:** Listed UL917.

**TYPICAL FOR 240 VOLT SUPPLY**



# 1800 SERIES

## FOR MECHANICALLY HELD CONTACTORS AND LOW VOLTAGE REMOTE CONTROL MOMENTARY CONTACT TIME SWITCH




## APPLICATIONS

- Mechanically-held contactors
- 3-wire momentary
- lighting systems
- Remote station switching

## FEATURES

**24 HOUR SKIP-A-DAY:** Minimum ON setting is 20 minutes with minimum OFF setting at 75 minutes. Dial accommodates up to 12 pairs of trippers. Omit operations on any day with a 7 spoke wheel marked with days of week.

**7 DAY SCHEDULING:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial will accomodate up to 2 pairs on ON/OFF trippers per day - 7 pairs are supplied.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**OPTIONAL ASTRONOMIC SCHEDULING:** Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times. Order astronomic dial for 1847A

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | TYPE |
|---|---|---|---|---|
| 1847A | 52001 | 120 | SPDT Momentary | 24 Hour |
| 1847AW | 52005 | 120 | SPDT Momentary | 7 Day |
| Replacement Trippers | For 24 hour models order #P49 for a pair ON/OFF per dial. Additional ON/OFF trippers per dial order #P47. 3 omitting screws #53005 supplied. 7 day models order #P69 for 7 pairs of ON/OFF trippers. | | | |
| Replacement Motor | #101(120V) | | | |

SunSet Astronomic dial. Consult factory for correct number for your latitude

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC 60Hz

**TIMING ACCURACY:** Line frequency.

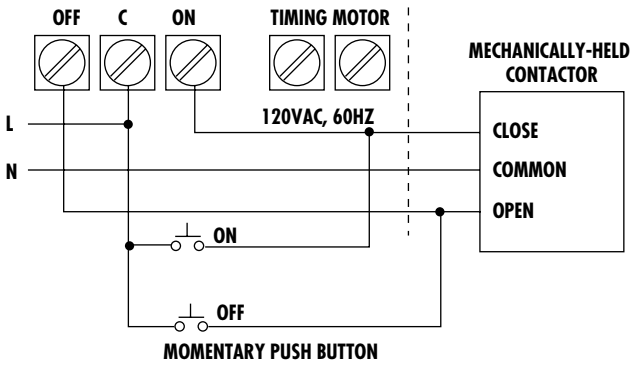
**TERMINAL RANGE:** #12 - #22AWG.

**OPERATING TEMPERATURE:**
-40˚ to 165˚F (-40˚ to +74˚C).

**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

**ENCLOSURE:** NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 24-277 | 10A |
| Pilot Duty | 24-277 | 360VA |




### ASTRONOMIC LATITUDE ZONES



# W SERIES
## DIFFERENT SCHEDULES EACH DAY
## 7 DAY TIME SWITCH



## APPLICATIONS

- Heating
- Air conditioning
- Display lighting
- Ventilating systems
- Lighted signage
- Storefront lighting

## FEATURES

**SCHEDULING:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. Models W400A and W402A offer minimum ON/OFF settings of 3½ hours. 7 day calendar dial accommodates up to 2 pairs of ON/OFF trippers per day – 7 pairs are supplied.

**SKIP-A-DAY:** Omit operations on any day.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF automatic operation then resumes.

**OPTIONAL RESERVE POWER:** "L" models keep dial on time up to 24 hours during power outage.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| W100 | 30001 | 120 | SPST | Metal Indoor NEMA 1 |
| W120 | 33001 | 120 | SPDT | |
| W200 | 31001 | 120 | DPST | |
| W202 | 31011 | 208-277 | DPST | |
| W220 | 34001 | 120 | DPDT | |
| W222 | 34011 | 208-277 | DPDT | |
| W300 | 32001 | 120 | 3PST | |
| W400B* | 35003 | 120 | 4PST | |
| W402B* | 35004 | 208-277 | 4PST | |
| WITH RESERVE POWER | | (Contact factory for lead time) | | |
| W220L | 39009 | 120 | DPDT | Metal Indoor NEMA 1 |
| W222L | 39010 | 208-277 | DPDT | |
| W300L | 39005 | 120 | 3PST | |
| W302L | 39006 | 208-277 | 3PST | |
| W400BL* | 39008 | 120 | 4PST | |
| Replacement Trippers | Order #P69 for 7 pairs of ON/OFF trippers | | | |
| Replacement Motor | #101 (120V) & #201 (208-277V). For "L" models order #36 (120V) and #46 (208-277V). | | | |

*UL Listed only.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277VAC, 60Hz, varies by model.

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:** -40˚ to 165˚F (-40˚ to +74˚C).

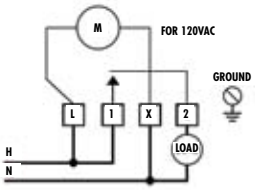
**POWER CONSUMPTION:** 3 watts, 5 watts for "L" models maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp. (See pages 589-593 for dimensions).

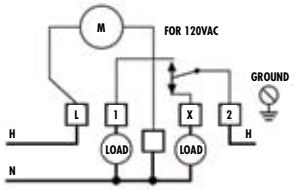
| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120 -277 | 40A |
| Resistive | 120 -277 | 40A |
| Tungsten | 120 | 40A |
| Ballast | 120-277 | 20A |
| Pilot Duty | 120 -277 | 1000VA |
| Motor | 120<br>240 | 2HP<br>5HP |

277VAC Single Phase

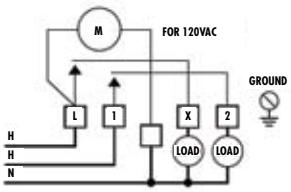
### W100



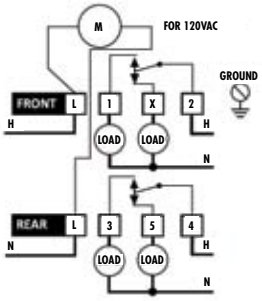

### W120



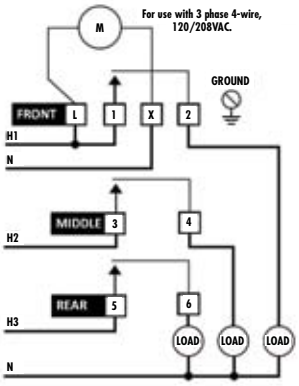

### W200



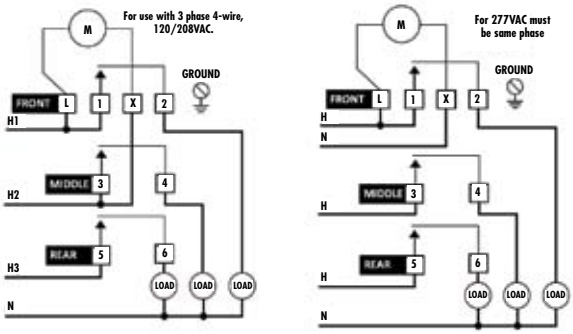

### W220



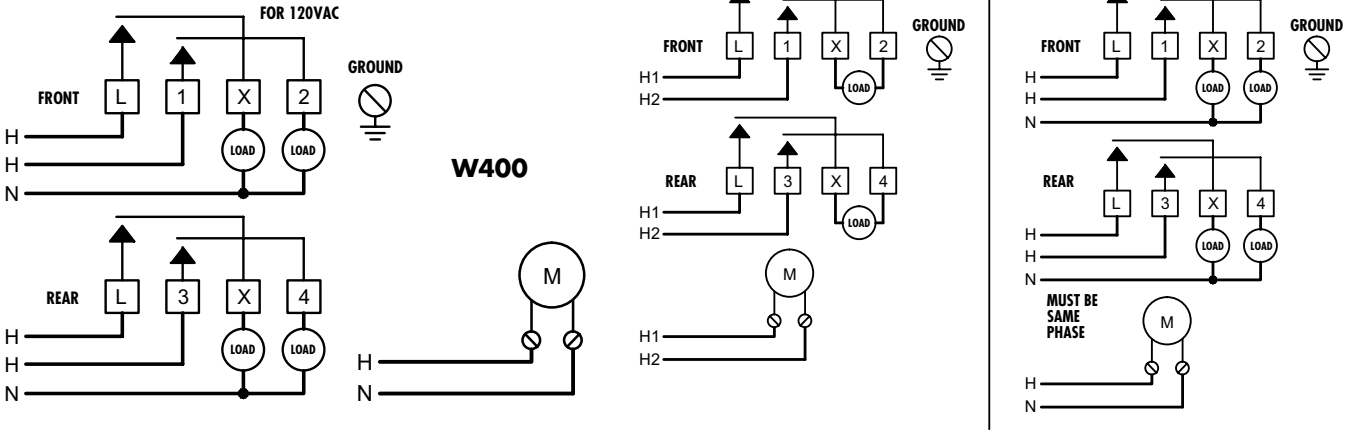

### W300




### W302




### W402



# T900 SERIES

**PHOTOELECTRIC & 7 DAY CONTROL COMBO**
**DIFFERENT SCHEDULES EACH DAY**
**RESERVE POWER STANDARD**
**2 & 3 CIRCUIT CONTROL CENTERS**





Optional "E" cover



Model 2101
supplied with unit.

## APPLICATIONS

- Parking lot lighting
- HVAC
- Display lighting
- Security lighting
- Lighted signage
- Storefront lighting

## FEATURES

**SCHEDULING:**

**CIRCUIT 1:** ON automatically at dusk, OFF at individual preset times each day, including skipping days when desired. Unit can be set to turn ON before dawn for early morning lighting.

**CIRCUIT 2:** ON at dusk, OFF at dawn automatically, daily.

**CIRCUIT 3:** Individual daily ON and OFF settings at desired times, including skipping any desired day or days Minimum ON is setting 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial will accommodate up to 2 pairs of ON-OFF trippers per day – 7 pairs are supplied.

**SKIP-A-DAY:** Omit operations on any day.

**MANUAL BY-PASS SWITCHES:** Single pole, 20 Amps – one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent – will not disturb automatic settings.

**RESERVE POWER:** Standard feature on all models keep dial on time up to 24 hours during power outage.

**OPTIONAL ENCLOSURES:** Contact factory for available options and lead time.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| T920L | 41033 | 120 | 2 SPDT | Metal Indoor NEMA 1 |
| T930L | 41055 | 120 | 3 SPDT | Metal Indoor NEMA 1 |
| Replacement Trippers | #P69 for 7 pairs of ON/OFF trippers. | | | |
| Replacement Motor | #36 (120V) | | | |
| Replacement Bypass Switch | #66061 | | | |

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120/277 | 20A |
| Motor | 120<br>240 | 1HP<br>2HP |

**NOTE:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120, 60 Hz

**TIMING ACCURACY:** Line frequency.

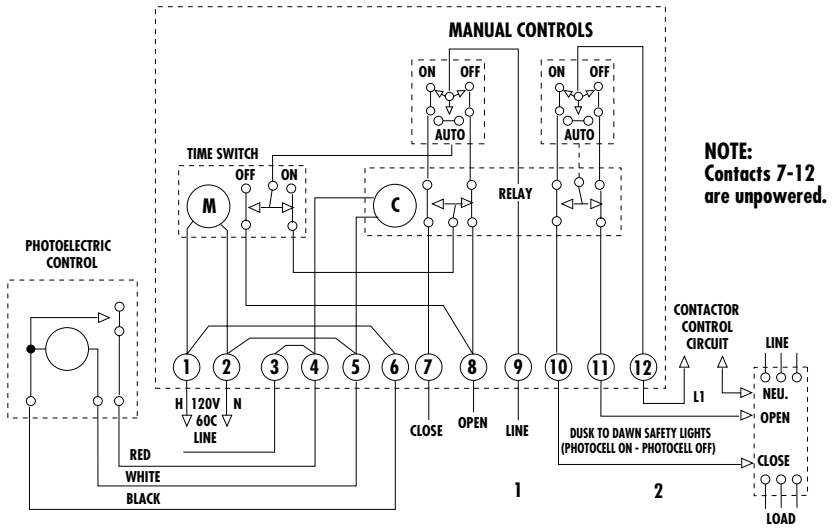
**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:**
-40˚ to 165˚F (-40˚ to +74˚C).

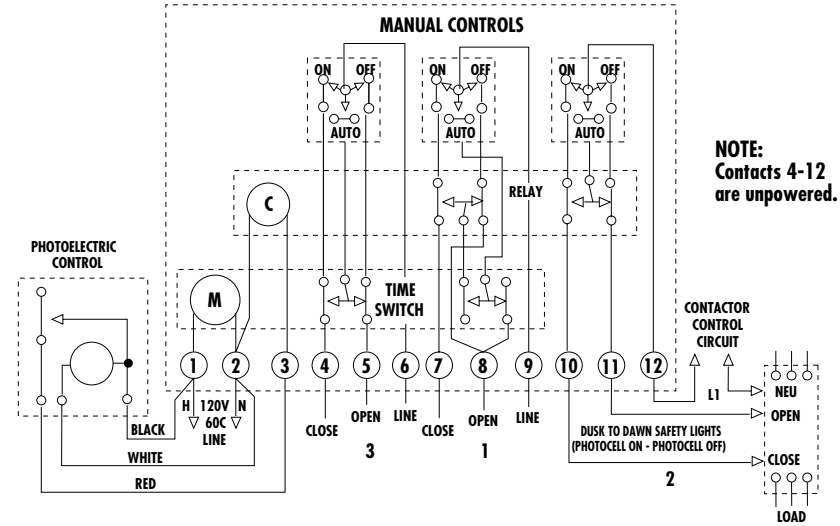
**POWER CONSUMPTION:**
5 watts maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp. (See pages 589-593 for dimensions).

## T920L
### ONLY CIRCUITS 1 AND 2 ARE INCLUDED IN T920L




## T930L
### ALL 3 CIRCUITS ARE INCLUDED IN T930L




**NOTE 1:** All models designed to control mechanically-held and magnetic contactors, when wired in accordance with manufacturers recommendations. Contacts are unpowered control circuits rated for 24-277V contactor coils. See notes on wiring schematics.

**NOTE 2:** For momentary Contact of contactor coils, use TORK Model SMC-3D, in our Digital Controls Catalog.

# TW SERIES

**DIFFERENT SCHEDULES EACH DAY**
**MANUAL BYPASS SWITCHES**
**RESERVE POWER STANDARD**
***7 DAY TIME SWITCH***





Optional "E" cover

## APPLICATIONS

- Heating
- Air conditioning
- Display lighting
- Ventilating systems
- Lighted signage
- Storefront lighting

## FEATURES

**SCHEDULING:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial accommodates up to 2 pairs of ON-OFF trippers per day – 7 pairs are supplied.

**SKIP-A-DAY:** Omit operations on any day.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**MANUAL BY-PASS SWITCHES:** Single pole, 20 Amps – one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent – will not disturb automatic settings.

**RESERVE POWER:** Standard feature on all models keep dial on time up to 24 hours during power outage.

**OPTIONAL ENCLOSURES:** Contact factory for available options and lead time.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| RESERVE POWER: (Contact factory for lead time) | | | | |
| TW-220L | 39013 | 120 | DPDT | Metal Indoor NEMA 1 |
| TW-300L | 39015 | 120 | 3PST | Metal Indoor NEMA 1 |
| Replacement Trippers | Order #P69 for 7 pairs of ON/OFF trippers. | | | |
| Replacement Motor | #36 (120V) | | | |
| Replacement Bypass Switch | #66061 | | | |

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120/277 | 20A |
| Motor | 120<br>240 | 1HP<br>2HP |

**NOTE:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

## SPECIFICATIONS

**INPUT VOLTAGE:**
120VAC, 60Hz

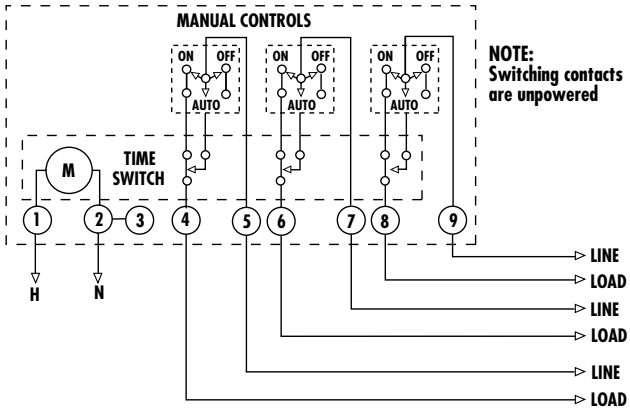
**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:**
-40˚ to 165˚F (-40˚ to +74˚C).

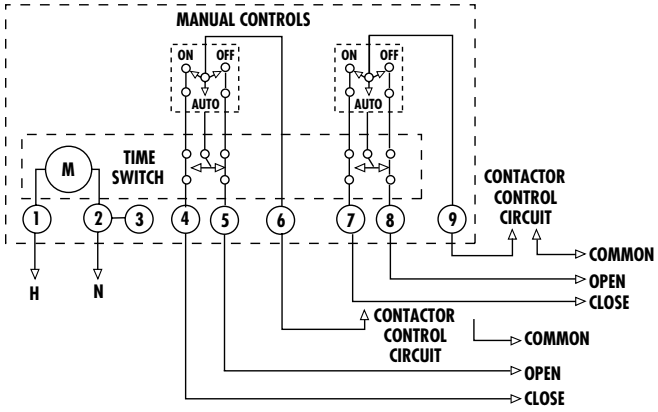
**POWER CONSUMPTION:**
5 watts maximum.

**ENCLOSURE**: Indoor NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).




### TW300L

When single line source is used, jumper terminals 1-5-7-9 and connect all commons to terminals 2 and 3.




### TW220L

Wiring shown is for mechanically-held contactors. Use CLOSE terminal only for magnetically-held contactors and to control direct loads not exceeding 2000 watts.

# TZ SERIES SunSet

## MANUAL BYPASS SWITCHES
## RESERVE POWER STANDARD
## ASTRONOMIC TIME SWITCH




## APPLICATIONS

- Schools
- Industrial yards
- Shop windows
- Parking lots
- Highway signs
- Bridges

## FEATURES

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times. Available from 18° - 45° northern latitudes.

**SKIP-A-DAY:** Omit operations on any day with a 7 spoke wheel marked with days of the week. 3 omitting screws included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**MANUAL BYPASS SWITCHES:** Single pole, 20 Amps - one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent, will not disturb automatic settings.

**RESERVE POWER:** Standard feature on all models keep dial on time up to 24 hours during power outage.

**OPTIONAL ENCLOSURES:** Contact factory for available options and lead time.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| RESERVE POWER: (Contact factory for lead time) | | | | |
| TZ220L* | ** | 120 | DPDT | Metal Indoor NEMA 1 |
| TZ300L* | ** | 120 | 3PST | Metal Indoor NEMA 1 |
| Replacement Motor | For "L" models #36 (120V) | | | |
| Replacement Bypass Switch | #66061 | | | |

*Add degrees latitude to complete number (18, 30, 34, 38, 40, 42, or 45).
**Consult factory for UPC number.

| TYPE | VOLTAGE (VAC) | CONTACT RATING |
|---|---|---|
| General Purpose | 120/277 | 20A |
| Motor | 120<br>240 | 1HP<br>2HP |

**NOTE:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

## SPECIFICATIONS

**INPUT VOLTAGE:**
120VAC, 60Hz

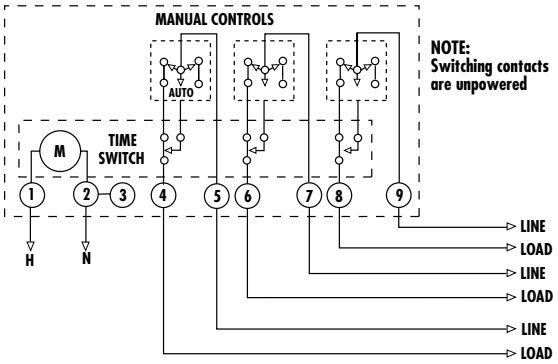
**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:**
-40˚ to 165˚F (-40˚ to +74˚C).

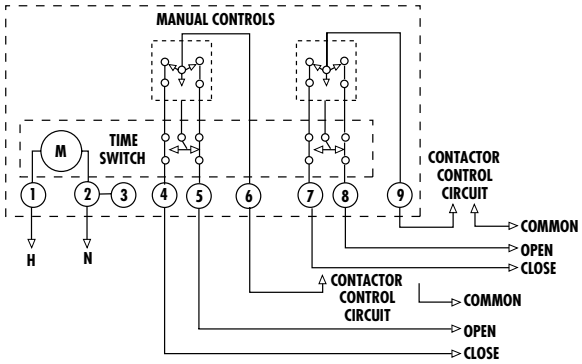
**POWER CONSUMPTION:**
5 watts maximum.

**ENCLOSURE:** Indoor NEMA 1 Metal with lockable hasp (See pages 589-593 for dimensions).




### TW300L

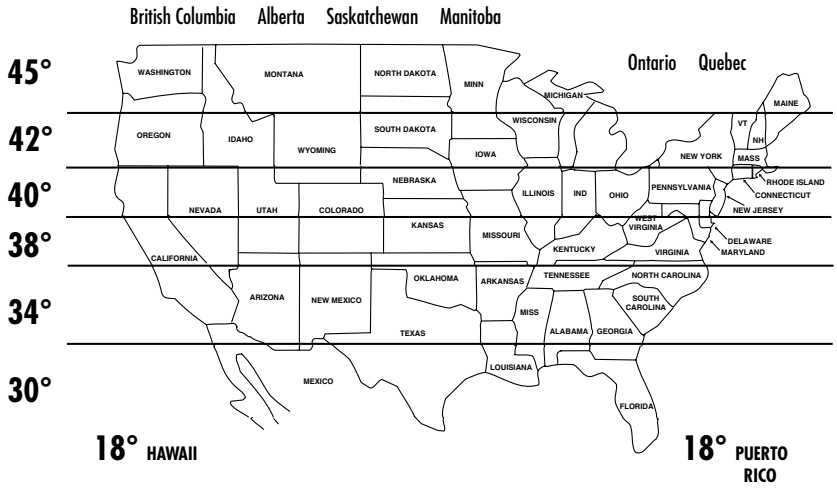
When single line source is used, jumper terminals 1-5-7-9 and connect all commons to terminals 2 and 3.




### TW220L

Wiring shown is for mechanically-held contactors. Use CLOSE terminal only for magnetically-held contactors and to control direct loads not exceeding 2000 watts.

## ASTRONOMIC LATITUDE ZONES




LAT
SEASON
HOUR
MONTH
MIN
DATE




# TORK® DIGITAL TIME SWITCHES

# QUICK REFERENCE GUIDE

| | DTU40 DTWH40 | EH20C | SA300 | E-PB | E | EW | EWZ | DG | DGM | DW | DWZ | DTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Page No. | 479 | 481 | 483 | 485 | 485 | 487 | 489 | 491 | 491 | 493 | 493 | 495 |
| Number of Channels | 1 | 1 | 1 | 1 | 1 or 2 | 1 or 2 | 1 or 2 | 1 or 2 | 1 | 2 | 1 | 1, 2 or 4 |
| ON/OFF Set Points | 7 pair | 14 | 1 pair | 20 | 20 | 20 | 20 | 56 | 56 | 99 | 99 | 99 |
| 365 Day/7 Day Scheduling | 7 day | 7 day | 7 day | 24 hour | 24 hour | 7 day | 7 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day |
| Automatic Daylight Savings Adjustment | Manual | Yes | Manual | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Leap Year | | Yes | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Individual Holiday Schedules | | | | | | | | | | 24 | 24 | 24 |
| Block Holiday | | Yes | | | | | | 9 | 9 | | | |
| Season Scheduling | | | | | | | | | | | | 4 |
| SunSet (Astronomic) | | | ZipSet | | | | Yes | | | | Yes | |
| Photosensor Input | | | | | | | | | | | | |
| Remote Override Input | | | | | | | | | | | | |
| Signal/Pulse Duration | | | | | | | | | | | | Yes |
| Momentary for Contactors | | | | | Option | Option | Option | | Yes | | | |
| Duty Cycle | | | | | | | | | | | | |
| 31 Day Cycle | | | | | | | | | | | | |
| Manual Override | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Clock Format | AM/PM | AM/PM | AM/PM | AM/PM | AM/PM | AM/PM | AM/PM | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 |
| Power Outage Backup | Rechargeable Battery | 4 day Super Capacitor | Battery | 4 day Super Capacitor | 4 day Super Capacitor | 4 day Super Capacitor | 4 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor |
| Schedule Retention without power | Battery | Permanent | Battery | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent |
| Staggered Start | | | | | Yes | Yes | Yes | Yes | Yes | Yes | | Yes |
| Memory Module | | | | | | | | | | | | |
| Computer Programming Software | | | | | | | | | | | | |
| Output Contacts: Amps Resistive or General Purpose | 40A | 40A | 40A | 30A | 40A | 40A | 40A | 20A | 20A | 30A | 30A | 30A |
| Contact Type: Dry Unpowered | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Voltage Input AC | 120/208-240/277 | 120-277 | 120 or 120/277 | 120 | 120-277 | 120-277 | 120-277 | 120-277 | 120-277 | 120/208-240/277 | 120/208-240/277 | 120/208-240/277 |
| Other Voltage Inputs Available | | | | | | | | | | | | |

| | | | LIGHTING CONTROLS | | | | | CYCLE - SIGNAL TIMER | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | DZS | DZM | ELC74/78/712 | DGU | DGUM | DGLC | DLC400 | DG | DGS | DIN |
| Page No. | 497 | 499 | 505 | 503 | 503 | 503 | 507 | 511 | 511 | 517 |
| Number of Channels | 1, 2, or 4 | 2 | 4, 8, or 12 | 1 | 1 | 1 or 2 | 4 | 1 or 2 | 1 | 1 or 2 |
| ON/OFF Set Points | 99 | 99 | 128 | 56 | 56 | 56 | 99 | 56 | 56 | 8 pair<br>3 pair/ch |
| 365 Day/7 Day Scheduling | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 7/365 day | 24 Hour | 7 Day | 7 Day |
| Automatic Daylight Savings Adjustment | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Leap Year | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Individual Holiday Schedules | 24 | 24 | 26 | | | | 24 | | | |
| Block Holiday | | | 10 | 9 | 9 | 9 | | | | |
| Season Scheduling | 4 | 4 | | | | | 4 | | | |
| SunSet (Astronomic) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | | | |
| Photosensor Input | | | Yes | Yes | Yes | Yes | Yes | | | |
| Remote Override Input | | | Yes | Yes | Yes | Yes | Yes | | | |
| Signal/Pulse Duration | Yes | | Yes | | | | | Yes | Yes | |
| Momentary for Contactors | | Yes | Yes | | Yes | | | | | |
| Duty Cycle | | | Yes | | | | | Yes | Yes | |
| 31 Day Cycle | | | | | | | | Yes | | |
| Manual Override | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Clock Format | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | 12/24 | AM/PM |
| Power Outage Backup | 7 day Super Capacitor | 7 day Super Capacitor | 2 day Capacitor<br>1 year battery | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 6 month battery | 7 day Super Capacitor | 7 day Super Capacitor | 8 year battery |
| Schedule Retention without power | Permanent | Permanent | Battery | Permanent | Permanent | Permanent | Permanent | Permanent | Permanent | Battery |
| Staggered Start | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Memory Module | Yes | Yes | | | | | Yes | | | |
| Computer Programming Software | Yes | Yes | | | | | Yes | | | |
| Output Contacts: Amps Resistive or General Purpose | 30A/20A | 30A | 20A | 20A | 20A | 20A | 30A | 20A | 20A | 16A |
| Contact Type: Dry Unpowered | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Voltage Input AC | 120/208-240/277 | 120/208-240/277 | 24/120/208<br>240/ 277 | 120-277 | 120-277 | 120-277 | 120/208-240/277 | 120-277 | 120-277 | 120 |
| Other Voltage Inputs Available | 12VDC<br>24VAC | | 24VAC All Models | | | | | 12VDC<br>24VAC | 24VAC | |

# DT SERIES
## AUTOMATIC VOLTAGE DETECTION 7 DAY TIME SWITCH AND WATER HEATER TIMER

**MORE WIRING SPACE!**



DTU40

DTWH40

responsible energy

Avoid utility peak rates
Turn off when not needed

## APPLICATIONS

c UL us

**DTU40**
- Pumps, motors, fans
- Signs and lighting
- Water heaters
- Heating and air conditioning

**DTWH40**
- Water Heaters
- This timer turns OFF when rates are high and turns OFF when no one is home.

## FEATURES

**SCHEDULING:** 7 ON & OFF pairs of set points for individual programs on each day of the week. Minimum setting is 1 minute.

**DAYLIGHT SAVING:** Manual button push for one hour adjustment.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**EXTERNAL MANUAL OVERRIDE:** DTWH40 only on clear door. Override without opening case.

**RANDOM MODE:** Varies ON and OFF times to create "lived-in" look when away.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Battery retains time and schedule.

**STANDARDS:** Listed UL60370 (formerly UL917)

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DTU40 | 24004 | 120/208-240/277 | 1 | DPDT |
| DTWH40 | 24005 | 120/240 | 1 | DPDT |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| Resistive | 120-277 | 40A | 30A |
| Inductive | 120-277 | 30A | 15A |
| Ballast | 120<br>277 | 30A<br>20A | 10A<br>10A |
| Tungsten | 120 | 15A | |
| Motor | 120<br>240 | 1HP/30FLA/90LRA<br>2HP/20FLA/60LRA | 1/4HP/12FLA/30LRA<br>1/2HP/12FLA/33LRA |
| Pilot duty | 120<br>240 | 720VA<br>720VA | 290VA<br>260VA |
| Resistive | 28VDC | 20A | |
| Max above 104°F | 120-277 | 30A | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120/208-240/277 VAC, 50/60 Hz (auto detection). DTWH40 is 120/240VAC 50/60Hz (auto detection).

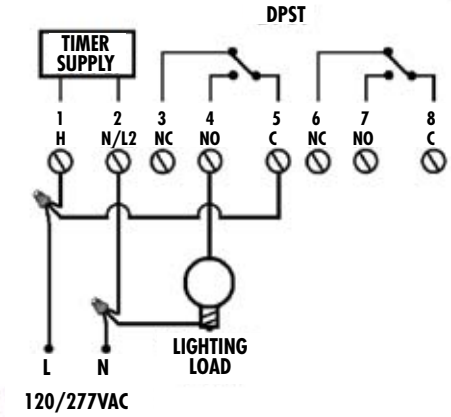
**TERMINAL RANGE:** #8 - #18AWG.

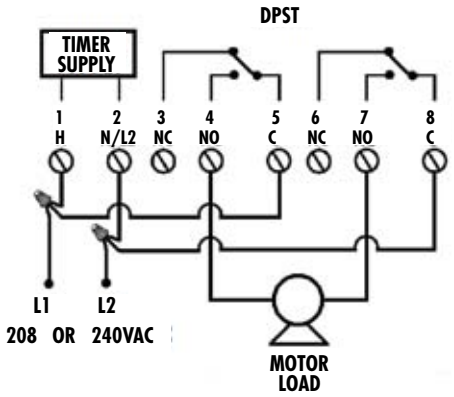
**OPERATING TEMPERATURE:** -31 °F to 116 °F (-35 °C to +47 °C).

**POWER CONSUMPTION:** 6VA Max.

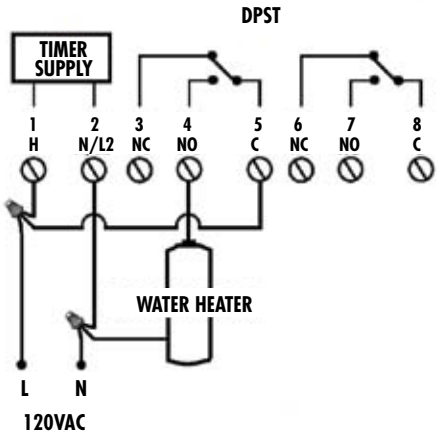
**ENCLOSURE:** DTU40 polycarbonate Indoor/ Outdoor NEMA 3R. DTWH40 polycarbonate indoor NEMA 1 enclosure with clear cover. Both with lockable hasp (see pages 589-593 for enclosure dimensions).

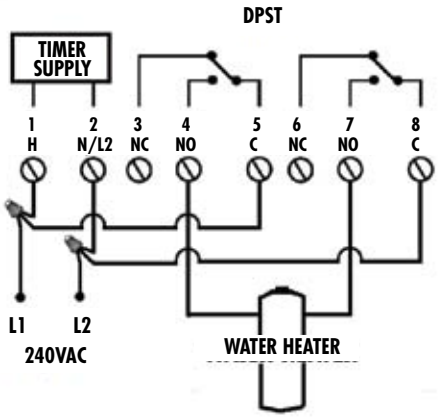
### DTU40




### DTWH40



# EH20C
## AUTOMATIC VOLTAGE DETECTION WATER HEATER TIMER WITH SUMMER LOAD SHED




responsible energy

Avoid utility peak rates
Turn off when not needed

**PRE-PROGRAMMED FOR EASY SET-UP**

## APPLICATIONS

c UL us

- Electric water heater timers for residential or commercial.

## FEATURES

**PRE-PROGRAMMED:** Unit preset for daily OFF time from 12:00am to 4:00am daily.

**SUMMER LOAD SHED:** Additional OFF time from 3:00pm to 7:00pm during Summer time (6/1 to 9/30) annually to avoid peak usage.

**SCHEDULING:** Additional 14 ON or OFF set points for individual programs for each day of the week. Minimum setting 1 minute.

**HOLIDAY SCHEDULE:** Extend to the load shed date throughout the year or preset extra load shed schedules while on vacation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF. Override during pre-programed times limited to 60 minutes per day.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Lithium battery. Non-rechargeable with 8 year expected life.

**STANDARDS:** Listed UL917

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50-60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| EH20C | 82314 | 120-277 | DPST |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120-277 | 40A |
| Inductive | 120-277 | 40A |
| Pilot duty | 120-277 | 720VA |
| Motor | 120<br>208<br>240-277 | 1 HP<br>1 1/2 HP<br>2 HP |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

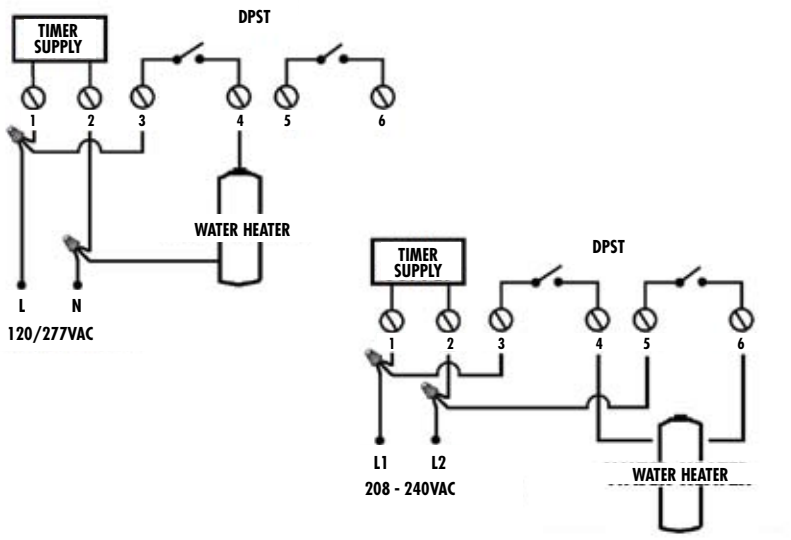
**INPUT VOLTAGE:** 120-277VAC, 50/60Hz
(automatic detection).

**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:** Indoor/Outdoor NEMA 3R
Polycarbonate with locking hasp.
(see pages 589-593 for enclosure dimensions).



# SA300 SERIES
## Zip-Set™
## DIGITAL TIME SWITCH




responsible energy

**AREA CODE ENTRY FOR FAST SET-UP**

## APPLICATIONS

- Outdoor lighting
- Electric motors
- Indoor lighting or signs

## FEATURES

**ZIP-SET:** Fast and easy. Just enter area code and timer adjusts to your time with preset program of Sunset ON and time off program.

**SCHEDULING:** One On/Off set point pair is active at a time. Only one schedule may be active at a time: Schedule 1, Schedule 2, a combination of 1 & 2, or ZipSet™. Day combinations for 7-5-2 speed programming.

**MANUAL DAYLIGHT SAVING:** Simple switch adjustment.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**RANDOM FEATURE:** Varies on time +/-90 minutes each day for lived in look.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Replaceable batteries

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| SA300 | 16546 | 120 | SPST |
| SA306 | 16549 | 120 | DPST |
| SA400 | 16552 | 120/277 | SPST |

| TYPE | VOLTAGE (VAC) 60Hz | RATING |
|---|---|---|
| Resistive | 120* | 40A |
| Inductive | 120* | 40A |
| Tungsten | 120* | 40A |
| Incandescent | 120* | 40A |
| Motor | 120 | 1 1/2HP |
| *SA400 | 120/277 | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC, 60Hz
SA400 120/277VAC, 60Hz

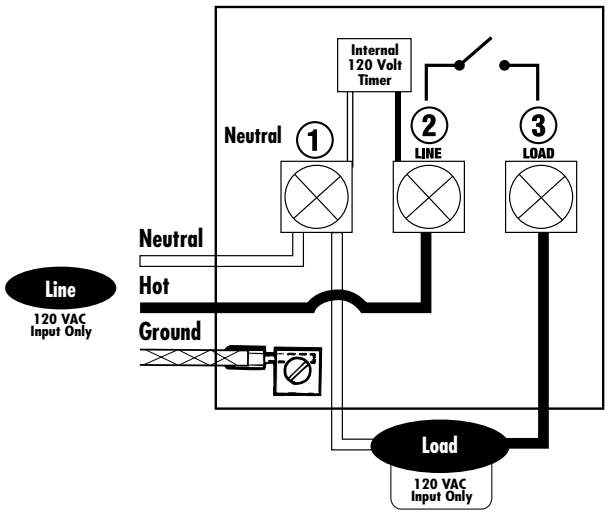
**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**
32 °F to +100 °F (0 °C to +37 °C).

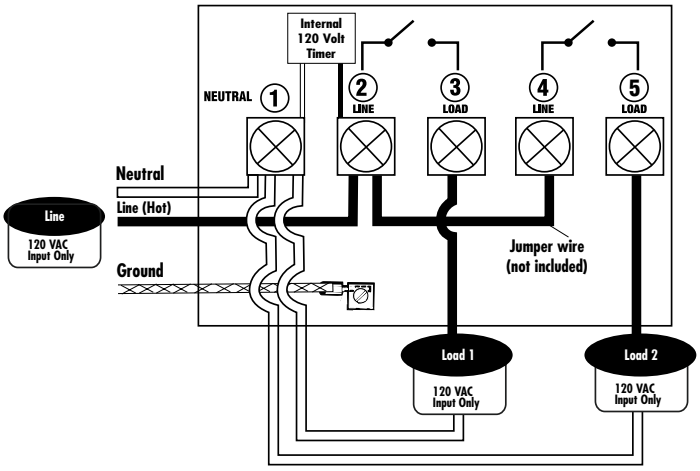
**POWER CONSUMPTION:** 5VA Max.

**ENCLOSURE:** Indoor Metal with locking hasp.
SA400 Outdoor Metal with locking hasp.
(see pages 589-593 for enclosure dimensions).

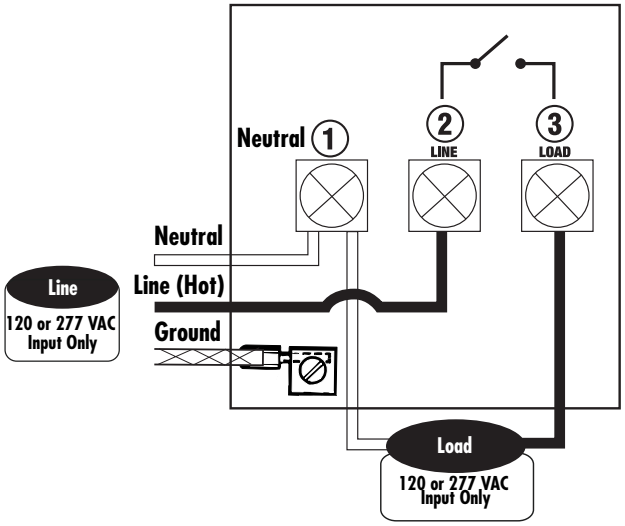
### SA300




### SA306




### SA400



# E & E-PB SERIES

## MULTIPURPOSE CONTROLS
## 1 OR 2 CHANNEL
## 24 HOUR TIME SWITCH



**BACKUP *WITHOUT* BATTERY, ECO FRIENDLY!**

## APPLICATIONS

- Signs
- Air conditioning
- Lighting
- Sump pumps
- Ventilating fans

## FEATURES

**SCHEDULING:** 20 ON/OFF set points repeat each day. Minimum setting 1 minute.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.

**MOMENTARY OPTION:** For mechanically held contractors: Model E201B only. Configure with simple jumper change for single-channel momentary operation.

**STANDARDS:** Listed UL917

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|---|---|---|---|---|
| E101B | 82401 | 120-277 | 1 | SPST |
| E103B | 82411 | 120-277 | 1 | DPST |
| E120B | 82406 | 120-277 | 1 | SPDT |
| E201B | 82466 | 120-277 | 2 | SPST |
| E101PB | 82461 | 120 | 1 | SPST |

| TYPE | E101B, E103B, E201B VOLTAGE (VAC) | E101B, E103B, E201B RATING NO | E120B RATING NO | E120B RATING NC | E101PB VOLTAGE (VAC) | E101PB RATING NO |
|---|---|---|---|---|---|---|
| General Purpose | 120-277 | 40A | 30A | 30A | 120/240<br>277 | 30A<br>12A |
| Inductive | 120-277 | 40A | 30A | 30A | 120/240<br>277 | 30A<br>12A |
| Ballast | 120<br>208-277 | 30A<br>20A | 30A<br>20A | 10A<br>10A | 120<br>277 | 20A<br>6A |
| Tungsten | 120 | 15A | 15A | 2A | 120 | 5A |
| Pilot Duty | 120-277 | 720VA | 720VA | 720VA | 120-240<br>277 | 470VA<br>690VA |
| Motor | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 1HP<br>1 1/2HP<br>2HP | 1HP<br>1 1/2HP<br>2HP | 120<br>240<br>- | 1HP<br>2HP<br>- |
| Resistive | 28VDC | 30A | 30A | 30A | 28VDC | 20A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**
**E SERIES**
120 - 277VAC, 50/60Hz (automatic detection).
**E-PB**
120VAC, 50/60Hz.

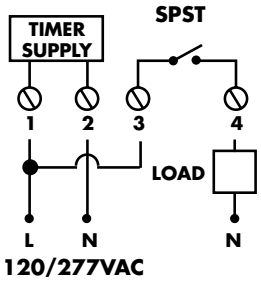
**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

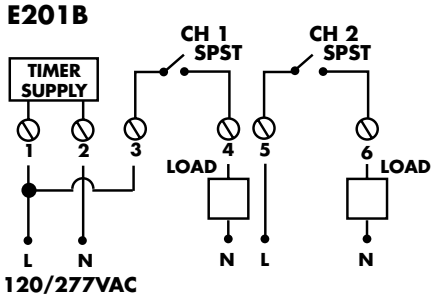
**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:** Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp (see pages 589-593 for enclosure dimensions).

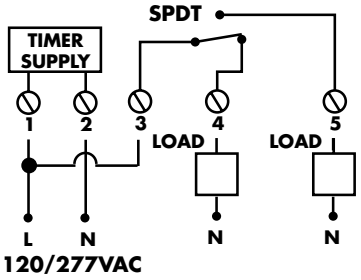
**E101B**

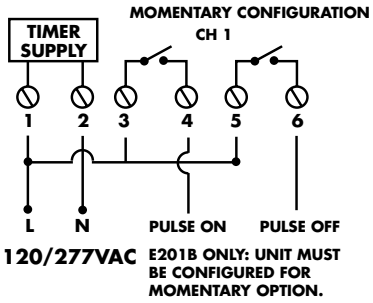



**E201B**

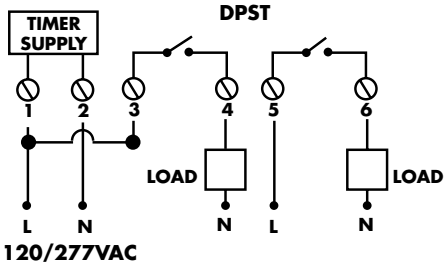


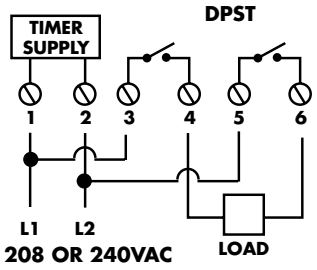

**E120B**



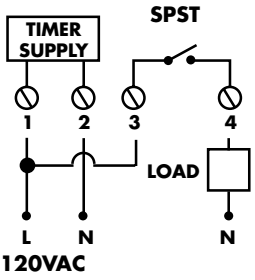




**E103B**




**E101PB**



# EW SERIES
## MULTIPURPOSE CONTROL
## 1 OR 2 CHANNEL
## 7 DAY TIME SWITCH



AUTOMATIC DST SAVES TIME CHANGES TWICE A YEAR!

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

c UL us

## APPLICATIONS

- Outdoor signs
- Lighting security
- Heating and air conditioning

## FEATURES

**SCHEDULING:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.

**DAYLIGHT SAVING:** Automatic (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.

**MOMENTARY OPTION:** For mechanically held contractors: Model EW201B only. Configure with simple jumper change for single-channel momentary operation.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|---|---|---|---|---|
| EW101B | 82431 | 120-277 | 1 | SPST |
| EW103B | 82441 | 120-277 | 1 | DPST |
| EW120B | 82436 | 120-277 | 1 | SPDT |
| EW201B | 82467 | 120-277 | 2 | SPST |
| EW101B-Y | 82249 | 120-277 | 1 | SPST |
| EW103B-C | 82253 | 120-277 | 1 | DPST |
| EW103B-Y | 82255 | 120-277 | 1 | DPST |
| EW120B-C | 82437 | 120-277 | 1 | SPDT |
| EW120B-Y | 82261 | 120-277 | 1 | SPDT |
| EW201B-Y | 82299 | 120-277 | 2 | SPST |

| TYPE | EW101B, EW103B, EW201B | | EW120B | | |
|---|---|---|---|---|---|
| | VOLTAGE (VAC) | RATING NO | VOLTAGE (VAC) | RATING NO | RATING NC |
| General Purpose | 120-277 | 40A | 120-277 | 30A | 30A |
| Inductive | 120-277 | 40A | 120-277 | 30A | 30A |
| Ballast | 120<br>208-277 | 30A<br>20A | 120<br>208-277 | 30A<br>20A | 10A<br>10A |
| Tungsten | 120 | 15A | 120 | 15A | 2A |
| Pilot Duty | 120-277 | 720VA | 120-277 | 720VA | 720VA |
| Motor | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 1HP<br>1 1/2HP<br>2HP |
| Resistive | 28VDC | 30A | 28VDC | 30A | 30A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**
120 - 277VAC, 50/60Hz (automatic detection).

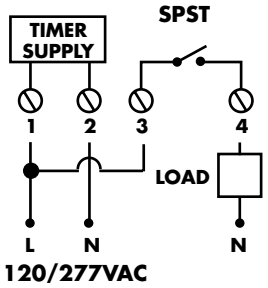
**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

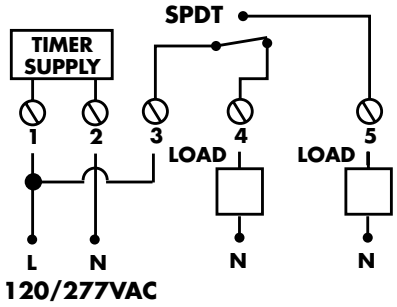
**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:**
- Polycarbonate Indoor/Outdoor NEMA 3R.
- Suffix -C plastic clear cover Indoor/Outdoor NEMA 3R.
- Suffix -Y metal Indoor enclosure NEMA 1.
- All with lockable hasp (see pages 589-593 for enclosure dimensions).

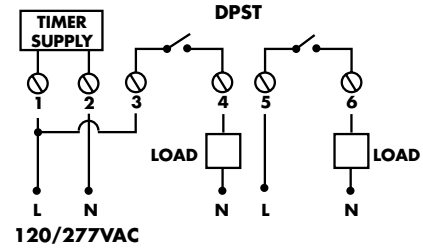
**EW101B**

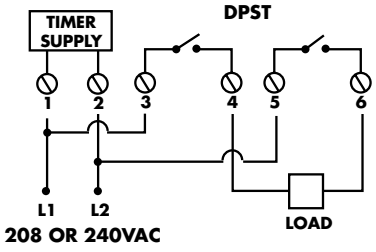



**EW120B**

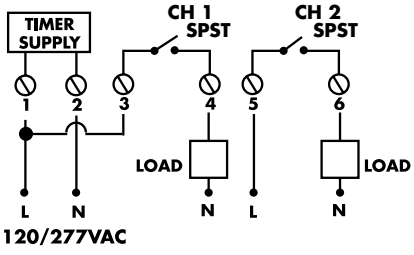


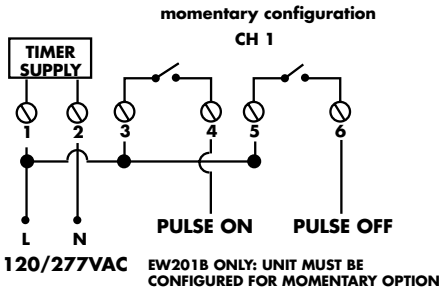

**EW103B**




**EW201B**



# EWZ SERIES

## SunSet 1 OR 2 CHANNEL 7 DAY TIME SWITCH



SunSet

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

**PREFERRED FOR OUTDOOR LIGHTING!**

## APPLICATIONS

c UL us

- Outdoor signs
- Lighting security
- Heating and air conditioning

## FEATURES

**SCHEDULING:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.

**DAYLIGHT SAVING:** Automatic (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.

**MOMENTARY OPTION:** For mechanically heldcontactors: Model EWZ201 only. Configure with simple jumper change for single-channel momentary operation.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|---|---|---|---|---|
| EWZ101 | 82470 | 120-277 | 1 | SPST |
| EWZ103 | 82473 | 120-277 | 1 | DPST |
| EWZ120 | 82471 | 120-277 | 1 | SPDT |
| EWZ201 | 82472 | 120-277 | 2 | SPST |
| EWZ101-MB | 82263 | 120-277 | 1 | SPST |
| EWZ103-MB | 82269 | 120-277 | 1 | DPST |
| EWZ120-MB | 82275 | 120-277 | 1 | SPDT |
| EWZ201-MB | 82281 | 120-277 | 2 | SPST |

| TYPE | EWZ101,EWZ103, EWZ201 | | EWZ120 | | |
|---|---|---|---|---|---|
| | VOLTAGE (VAC) | RATING NO | VOLTAGE (VAC) | RATING NO | RATING NC |
| General Purpose | 120-277 | 40A | 120-277 | 30A | 30A |
| Inductive | 120-277 | 40A | 120-277 | 30A | 30A |
| Ballast | 120<br>208-277 | 30A<br>20A | 120<br>208-277 | 30A<br>20A | 10A<br>10A |
| Tungsten | 120 | 15A | 120 | 15A | 2A |
| Pilot Duty | 120-277 | 720VA | 120-277 | 720VA | 720VA |
| Motor | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 120<br>208<br>240-277 | 1HP<br>1 1/2HP<br>2HP | 1HP<br>1 1/2HP<br>2HP |
| Resistive | 28VDC | 30A | 28VDC | 30A | 30A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**
120 - 277VAC, 50/60Hz (automatic detection).

**TERMINAL RANGE:** #8 - #16AWG.

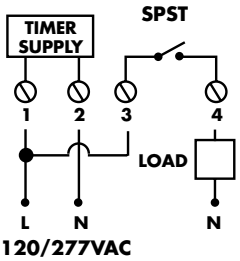
**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 6VA Max.

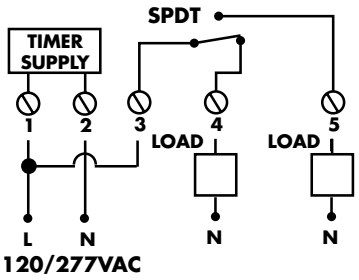
**ENCLOSURE:** Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp (see pages 589-593 for enclosure dimensions).
Suffix -MB without enclosure and includes mounting bracket.

**OPTIONS:** Suffix -Q Quartz crystal timing. Maintains accurate timing where 50 or 60 Hz is not consistent such as on-site generator produced power. Consult factory for minimum order size.

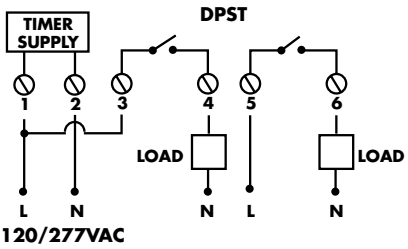
**EWZ101**

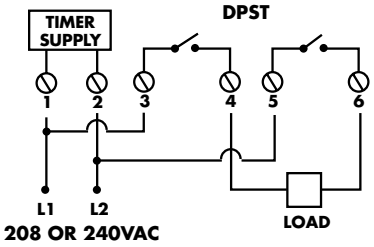



**EWZ120**

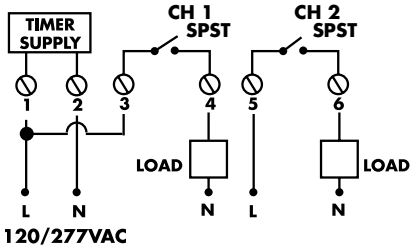


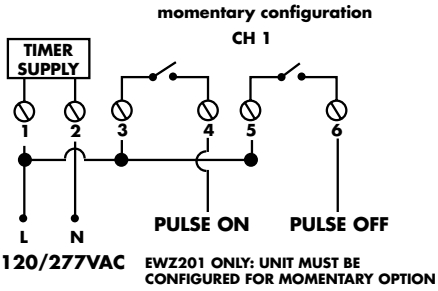

**EWZ103**




**EWZ201**



# DG100 SERIES
## MULTIPURPOSE CONTROLS
## 1 OR 2 CHANNEL
## 365/7 DAY
## TIME SWITCH



CALIFORNIA Title 24

ASHRAE 90.1

**HOLIDAY PROGRAMMING FOR MORE SAVINGS!**

## APPLICATIONS

- Indoor/Outdoor lighting
- HVAC equipment
- School warning and other
- Traffic lights
- Water heaters in offices, churches and factories

## FEATURES

**SCHEDULING:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.

**MOMENTARY CONTACT:** DGM100A has 2 second contact closures for ON & OFF control of mechanically held contactors or latching relays.

**BLOCK HOLIDAY:** 9 holiday blocks can be set for individual days or for duration of any number of days.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM or 24 Hour format.

**POWER OUTAGE BACKUP:** Permanent schedule retention is provided. Supercapacitor provides 7 days of real time back up.

**STANDARDS:** Listed UL916.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| DG100A | 82201 | 120-277 | 1 | DPDT |
| DG200A | 82209 | 120-277 | 2 | SPDT |
| DGM100A | 82210 | 120-277 | 1 | SPDT Momentary |
| DG100A-Y | 82221 | 120-277 | 1 | DPDT |
| DGM100A-Y | 82222 | 120-277 | 1 | SPDT Momentary |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| Resistive | 24-277 | 20A | 10A |
| Ballast | 120-277 | 20A | 10A |
| Tungsten | 120 | 15A | - |
| Pilot Duty | 120<br>240 | 720VA | 290VA<br>360VA |
| Motor | 120<br>240 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Resistive | 28VDC | 20A | 10A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:**
120 - 277VAC, 50/60Hz (automatic detection).

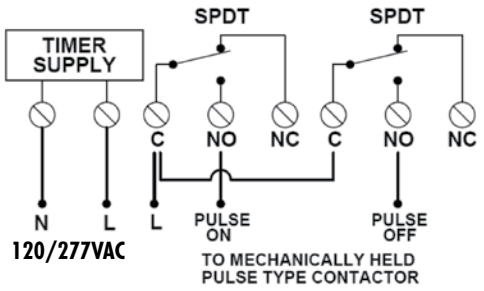
**TERMINAL RANGE:** #12 - #18AWG.

**OPERATING TEMPERATURE:**
-31 °F to +131 °F (-35 °C to +55 °C).

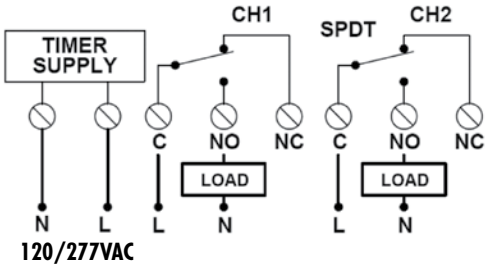
**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -Y metal indoor enclosure NEMA 1.
All with lockable hasp (see pages 589-593 for enclosure dimensions).

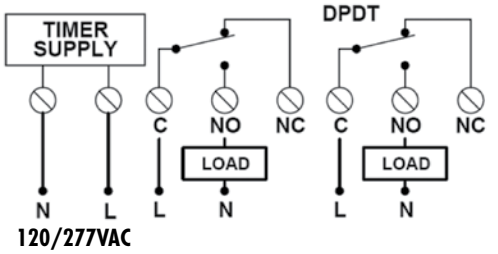
**DGM100A**

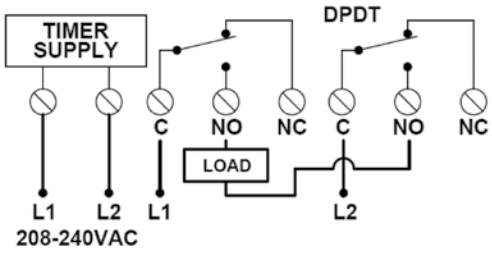



**DG200A**




**DG100A**



# DW SERIES
## MULTIPURPOSE CONTROLS
## 1 OR 2 CHANNEL
## 365 / 7 DAY ADVANCE TIME SWITCHES



SunSet

**SPECIFICATION FAVORITE!**

## APPLICATIONS

c UL us

**1 CHANNEL**
- Outdoor lighting
- Security lighting
- Parking lot lighting
- Canopy lighting

**2 CHANNEL**
- HVAC equipment
- Interior lighting
- Electric motors
- Refrigerator defrost control: condensers, heaters.

## FEATURES

**SCHEDULING:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.

**SunSet ASTRONOMIC (DWZ100B only):** Adjusts daily to changes in sunset times. Adjustable 10°- 60° Northern or Southern latitudes. Can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.

**HOLIDAYS:** 1 to 24 individual dates.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation scheduled ON or OFF, automatic operation then resumes.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM or 24 Hour Format

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DWZ100B | 82189 | 120/208-240/277 | 1 | SPDT |
| DW200B | 82190 | 120/208-240/277 | 2 | SPDT |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| General Purpose | 24-277 | 30A | 30A |
| Ballast | 120<br>277 | 30A<br>20A | 10A<br>10A |
| Tungsten | 120-277 | 15A | 2A |
| Pilot Duty | 120-277 | 720VA | 720VA |
| Motor Load | 120<br>208-277 | 1HP<br>2HP | 1HP<br>2HP |
| Resistive | 28VDC | 30A | 30A |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

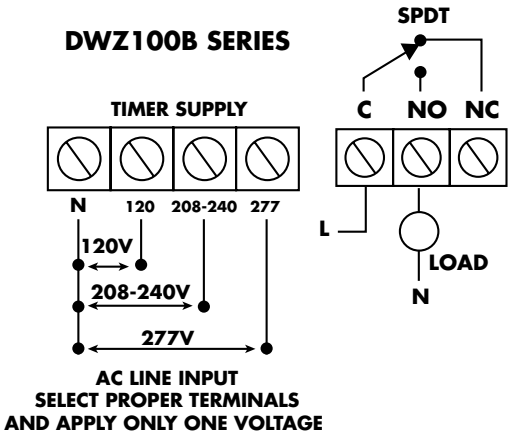
**INPUT VOLTAGE:**
120/208-240-277VAC, 50/60Hz.

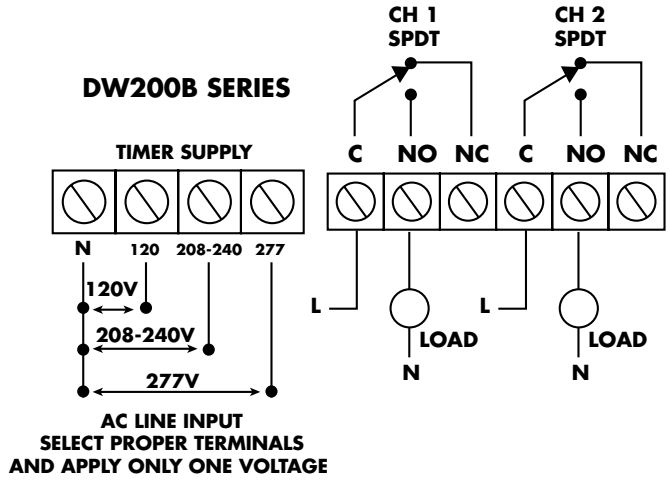
**TERMINAL RANGE:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.

**OPERATING TEMPERATURE:**
-40 °F to +158 °F (-40 °C to 70 °C).

**POWER CONSUMPTION:** 5VA Max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -0 metal Indoor/Outdoor NEMA 3.
All with lockable hasp (see pages 589-593 for enclosure dimensions).



# DTS SERIES
## MULTIPURPOSE CONTROLS
## 1, 2 OR 4 CHANNEL
## 365 / 7 DAY ADVANCE TIME SWITCH



**MAINTAINED AND SIGNAL TIMING!**

CALIFORNIA Title 24

ASHRAE 90.1

## APPLICATIONS

- Indoor and outdoor lighting
- Heating and air conditioning
- Security systems
- Horns and bells
- Low voltage lighting
- Misting and spraying
- Roof cooling
- Clock correction systems
- Process functions

## FEATURES

**SCHEDULING:** 99 ON/OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.

**SEASONS:** 1 to 4 with different daily schedules which can wrap around into the new year.

**HOLIDAYS:** 1 to 24 individual dates.

**SIGNAL/PULSE DURATION:** 2 different settings per channel: each 1-99 seconds.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.

**CLOCK FORMAT:** AM/PM or 24 Hour Format.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 7 days of real time back up.

**STANDARDS:** Listed UL917

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DTS100B | 82185 | 120/208-240/277 | 1 | DPDT |
| DTS200B | 82186 | 120/208-240/277 | 2 | SPDT |
| DTS400B | 82187 | 120/208-240/277 | 4 | SPDT |

| TYPE | DTS100B, DTS200B VOLTAGE (VAC) | RATING NO | RATING NC | DTS400B VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|---|---|---|
| General Purpose | 24-277 | 30A | 30A | 24-277 | 20A | 20A |
| Ballast | 120<br>277 | 30A<br>20A | 10A<br>10A | 120-277 | 13A | -<br>- |
| Tungsten | 120-277 | 15A | 2A | 120 | 8A | |
| Pilot Duty | 120-277 | 720VA | 720VA | 120-277 | 720VA | 360VA |
| Motor Load | 120<br>208-277 | 1HP<br>2HP | 1HP<br>2HP | 120/240 | 1/2HP | 1/2HP |
| Resistive | 28VDC | 30A | 30A | - | - | - |

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:** 120/208-277VAC, 50/60Hz.

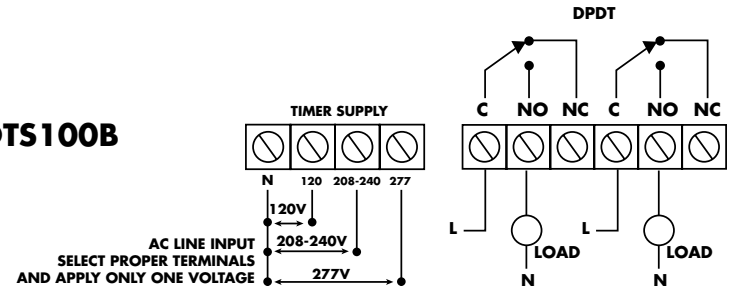
**TERMINAL RANGE:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.

**OPERATING TEMPERATURE:**
-40 °F to +149 °F (-40 °C to +65 °C).

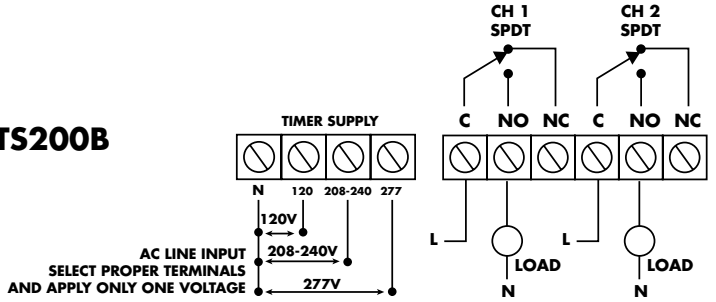
**POWER CONSUMPTION:** 6VA Max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R with lockable hasp (see pages 589-593 for enclosure dimensions).

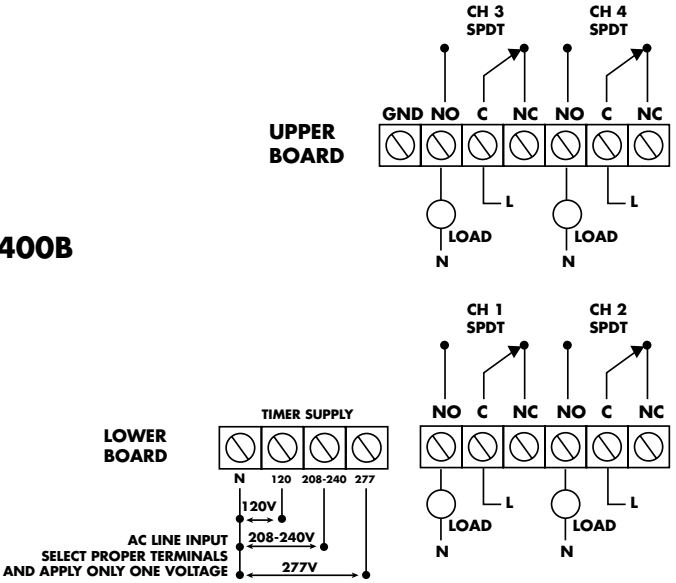
### DTS100B




### DTS200B




### DTS400B



# DZS SERIES
## MULTIPURPOSE CONTROLS
## 1, 2 OR 4 CHANNEL
## 365 / 7 DAY ADVANCED TIME SWITCH



SunSet

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

***REMOVABLE*** **MEMORY MODULE FOR COMPUTER PROGRAMMING!**

## APPLICATIONS

c UL us

- HVAC equipment
- Horns and bells
- Interior lighting
- Electric motors
- Outdoor lighting and signs



Memory Module Programmer optional

| CAT NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DZS100BP | 82182 | 120/208-240/277 | 1 | DPDT |
| DZS200BP | 82183 | 120/208-240/277 | 2 | SPDT |
| DZS400BP | 82184 | 120/208-240/277 | 4 | SPDT |
| DZS100BP-0 | 82215 | 120/208-240/277 | 1 | DPDT |
| DZS200BP-0 | 82227 | 120/208-240/277 | 2 | SPDT |
| DZS200BP-12 | 82228 | 12VDC | 2 | SPDT |
| DZS200BP-24 | 82229 | 24VAC | 2 | SPDT |
| DZS400BP-0 | 82230 | 120/208-240/277 | 4 | SPDT |
| USB-MMP | 82196 | | Memory Module Programmer | Includes software |

| TYPE | DZS100BP, DZS200BP VOLTAGE (VAC) | DZS100BP, DZS200BP RATING NO | DZS100BP, DZS200BP RATING NC | DZS400BP VOLTAGE (VAC) | DZS400BP RATING NO | DZS400BP RATING NC |
|---|---|---|---|---|---|---|
| General Purpose | 24-277 | 30A | 30A | 24-277 | 20A | 20A |
| Ballast | 120<br>277 | 30A<br>20A | 10A<br>10A | 120-277 | 13A | -<br>- |
| Tungsten | 120-277 | 15A | 2A | 120 | 8A | - |
| Motor Load | 120<br>208-277 | 1HP<br>2HP | 1HP<br>2HP | 120/240 | 1/2HP | 1/2 HP |
| Pilot Duty | 120-277 | 720VA | 720VA | 120-277 | 720VA | 360VA |
| Resistive | 28VDC | 30A | 30A | - | - | - |

## FEATURES

**SCHEDULING:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10˚ - 60˚ Northern or Southern latitudes can be individually offset +/-1 to 240 minutes from both sunset and sunrise times.

**SEASONS:** 1 to 4 with different daily schedules which can wrap around into the new year.

**HOLIDAYS:** 1 to 24 individual dates.

**SIGNAL/PULSE DURATION:** 2 different settings per channel: 1-99 seconds.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.

**CLOCK FORMAT:** AM/PM or 24 Hour Format.

**POWER OUTAGE BACKUP:** Permanent schedule retention with memory module. Supercapacitor provides 7 days of real time backup.

**MEMORY MODULE:** Removable MM can be programmed at any one location and inserted into another DZS series unit.

**COPY FEATURE:** Unit can be configured to copy program schedule to multiple memory modules.

**OPTION:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.

**STANDARDS:** Listed UL917.

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
120/208-240/277VAC, 50/60Hz.

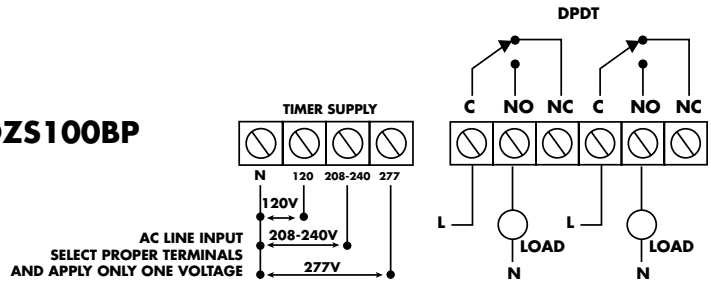
**TERMINAL RANGE:**
#14-#16AWG for line input.
#12-#16AWG load outputs.

**OPERATING TEMPERATURE:**
-40 °F to +158 °F (-40 °C to 70 °C).

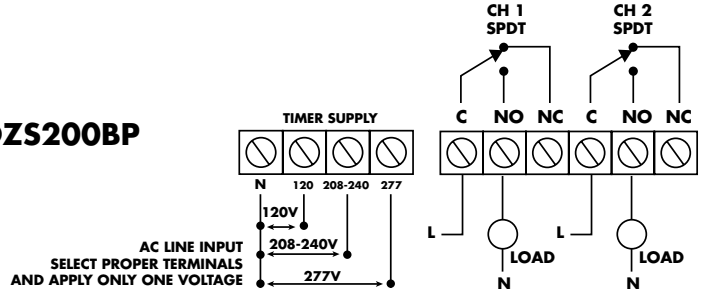
**POWER CONSUMPTION:**
5VA Max: DZS100/200BP.
6VA Max: DZS400BP.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -0 metal Indoor/Outdoor NEMA 3.
All with lockable hasp (see pages 589-593 for enclosure dimensions).

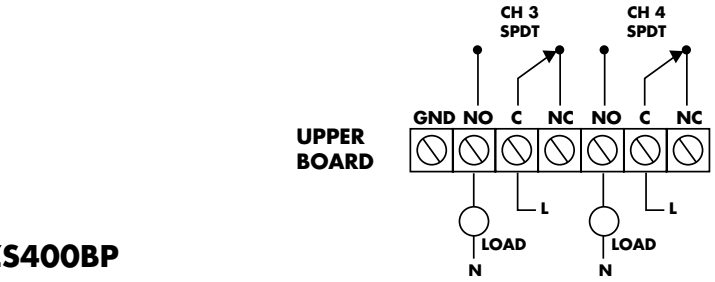
### DZS100BP

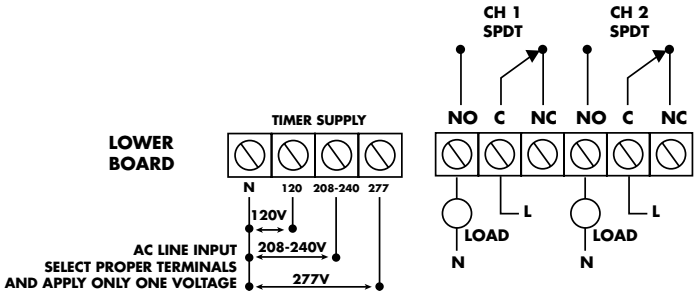



### DZS200BP




### DZS400BP



# DZM SERIES
## MOMENTARY OUTPUT
## 365 / 7 DAY ADVANCED LIGHTING CONTROL TIME SWITCH



SunSet

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CALIFORNIA Title 24

ASHRAE 90.1



Memory Module Programmer optional

**GREAT FOR LATCHING CONTACTORS!**

## APPLICATIONS

c UL us

- Low voltage latching relays
- Direct wire to mechanically held contactors

## FEATURES

**SCHEDULING:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.

**SEASONS:** 1 to 4 with different daily schedules which can wrap around into the new year.

**HOLIDAYS:** 1 to 24 individual dates.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM or 24 Hour Format.

**POWER OUTAGE BACKUP:** Permanent scheduled retention with memory module. Supercapacitor provides 7 days of real time backup.

**MEMORY MODULE:** Removable MM can be programmed at any one location and inserted into another DZM series unit.

**COPY FEATURE:** Unit can be configured to copy program schedule to multiple memory modules.

**OPTION:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.

**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|---|---|---|---|---|
| DZM200BP | 82188 | 120/208-240/277 | 2 | SPDT Momentary |
| USB-MMP | 82196 | | Memory Module Programmer | Includes software |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120-277 | 20A |
| Pilot Duty | 120-277 | 720VA |

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
120/208-240/277VAC, 50/60Hz.

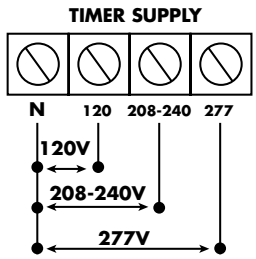
**TERMINAL RANGE:**
#14 - #16AWG for line input.
#12 - #16AWG load outputs.

**OPERATING TEMPERATURE:**
-40 °F to 158 °F (-40 °C to +70 °C).

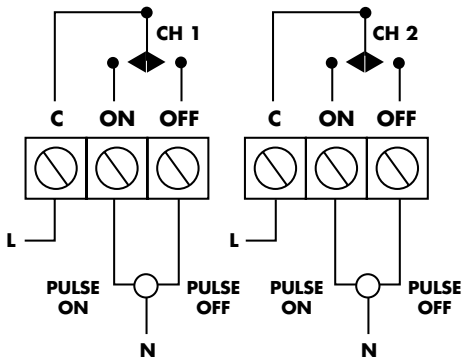
**POWER CONSUMPTION:** 4VA Max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -0 metal Indoor/Outdoor NEMA 3.
All with lockable hasp (see pages 589-593 for enclosure dimensions).

**AC LINE INPUT SELECT PROPER TERMINALS AND APPLY ONLY ONE VOLTAGE.**




**MECHANICALLY HELD CONTACTORS OR LATCHING RELAYS.**



# LC200 SERIES
## LIGHT LEVEL / TIME OF DAY OPTION
## 2 ZONES LIGHTING CONTROL

**STAGE LIGHTING TURN ON LEVEL**



responsible energy

ASHRAE 90.1

EPC1 sensor supplied with unit.

## APPLICATIONS

c UL us

- 24 hour convenience stores
- Open wall parking structures
- Large canopies
- Building perimeters
- Atriums

- Use to control two different outdoor lighting circuits utilizing one photocell. Sign lighting can turn ON at one ambient light level while parking lot lighting turns ON at a different light level.

## FEATURES

**PHOTOSENSOR INPUT:** EPC1 included.

**DUAL OUTPUTS:** with independent turn-ON adjustment for Stage1 and Stage 2.

**LIGHT LEVEL ACTIVATION:** Turn ON is user settable from 2 to 100 footcandle; Independent light level adjustment for each zone. Turn OFF is a maximum of 2 times turn ON level. Built-in delay OFF of 30 seconds to avoid reaction to lightning or headlights.

**SWITCHED INPUT:** Turns off loads. Can be used for photocell ON and time switch OFF operation.

**STANDARDS:** Listed UL916.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF ZONES | OUTPUT CONTACTS |
|---|---|---|---|---|
| LC200 | 82111 | 120/240/277 | 2 | SPDT |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| Resistive | 120/240<br>277 | 20A<br>12A | 10A |
| Ballast | 120<br>240/277 | 20A<br>6A | 10A<br>3A |
| Tungsten | 120/240/277 | 5A | 3A |
| Pilot Duty | 120/240<br>277 | 470VA<br>690VA | 275VA |

## SPECIFICATIONS

**INPUT VOLTAGE:**
120/240/277VAC, 50/60Hz.

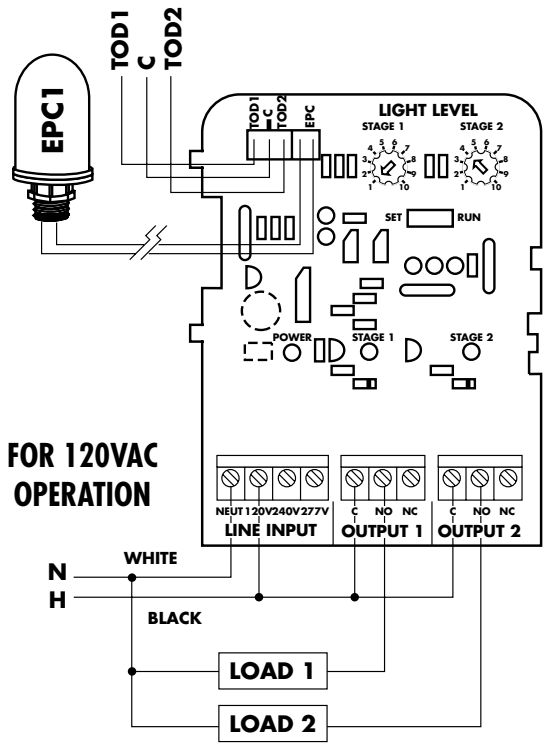
**TERMINAL RANGE:** Relay #12AWG; input power terminals #14 - #22AWG; TOD/sensor terminals accept #18 - #22AWG.

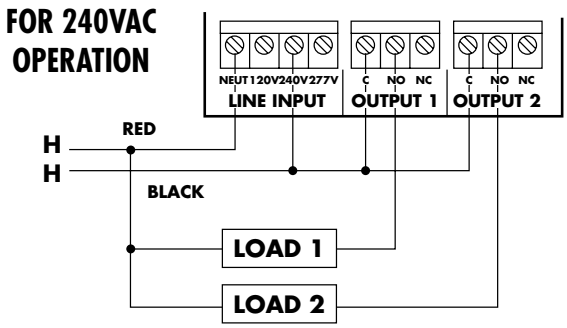
**OPERATING TEMPERATURE:**
-40 °F to +140 °F (-40 °C to + 60 °C).

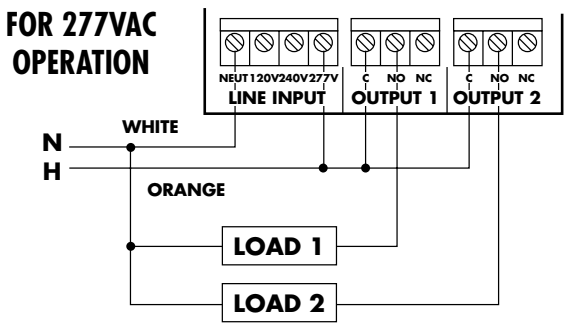
**POWER CONSUMPTION:** 5VA Maximum.

**ENCLOSURE:** LC200 includes metal Indoor NEMA 1 with lockable hasp (see pages 589-593 for enclosure dimensions).

**OTHER MOUNTINGS:**
LC200M mechanism only.



# DGU & DGLC SERIES

## LIGHTING CONTROL WITH PHOTO OR OVERRIDE INPUT
## 7 DAY LIGHTING CONTROL TIME SWITCH




**SMALL BUSINESS ENERGY CODE PANEL**

## APPLICATIONS

c UL us

### INTERIOR LIGHTING
- Open office zoning
- Hallways
- Meeting and sales areas
- Stock rooms and warehouses

### EXTERIOR LIGHTING
- Signage and store windows
- Security
- Parking lots


Model EPC-A supplied with DGLC-A unit.


With optional Timed Override

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| DGU100A-Y | 82211 | 120-277 | 1 | DPDT |
| DGUM100A | 82212 | 120-277 | 1 | SPDT Momentary |
| DGUM100A-Y | 82224 | 120-277 | 1 | SPDT Momentary |
| DGLC100A-NC | 82223 | 120-277 | 1 | DPDT |
| DGLC200A-NC | 82213 | 120-277 | 2 | SPDT |
| EPC-A | 82112 | Accessory Photo Sensor | - | - |
| SS410 | 14033 | 24VAC/24VDC | - | SPDT |
| TRP-24B | 98225 | 120/277 | Transformer Power Pack | SPST |

## FEATURES

**SCHEDULING:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.

**PHOTOSENSOR INPUT:** Unique push button set-up assures accurate operation with automatic calibration that adjusts for wire size and distance. EPC-A photo sensor is included with the DGLC-A and may be ordered as an option for use with model DGU100A & DGUM100A.

**LIGHT LEVEL ACTIVATION:** Turn ON is user settable from 1 to 100 footcandle; Turn OFF is a maximum of 2 times turn ON level. Each channel has an independent setting. Includes a user settable delay before ON and OFF between 1 – 90 seconds.

**REMOTE OVERRIDE ON:** Each channel has independent input for a maintained dry-contact closure. May use TORK model SS410 and TRP-24Bfor timed override. May use with occupancy sensor with dry contacts as override.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**MOMENTARY CONTACT - DGUM100A:** 2 second contact closure ON & OFF to control mechanically held contactors or latching relays.

**BLOCK HOLIDAY:** 9 holiday blocks can be set for individual days or for duration of any number of days.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**CLOCK FORMAT:** AM/PM or 24 Hour format.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.

**STANDARDS:** Listed UL916.

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:** 120-277VAC, 50/60Hz (auto detection).

**TERMINAL RANGE:**
#12 - #18AWG for line/load.
#18 - #26AWG sensor/switch input.

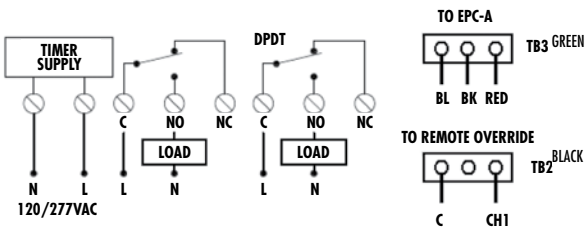
**OPERATING TEMPERATURE:**
-31 °F to +131 °F (-35 °C to + 55 °C).

**POWER CONSUMPTION:** 6VA Maximum.

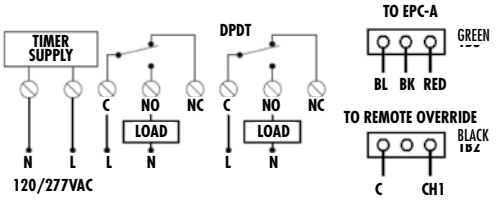
**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R.
Suffix -NC Noryl® Indoor/Outdoor NEMA 3R with clear Lexan® cover.
Suffix -Y metal Indoor enclosure NEMA 1.
All with lockable hasp (see pages 589-593 for enclosure dimensions).

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| Resistive | 24-277 | 20A | 10A |
| Ballast | 120-277 | 20A | 10A |
| Tungsten | 120 | 15A | - |
| Pilot Duty | 120<br>240 | 720VA | 290VA<br>360VA |
| Motor | 120<br>240 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Resistive | 28VDC | 20A | 10A |

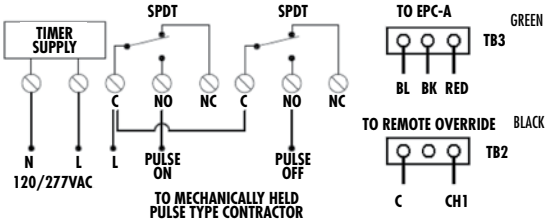
### DGU100A



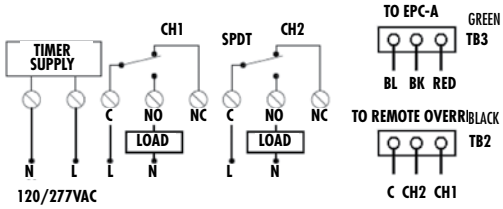

### DGLC100A




### DGUM100A




### DGLC200A



# ELC SERIES
## ENERGY AND LIGHTING CONTROL
## 4, 8 & 12 ZONE
## LIGHTING CONTROL




SunSet

responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

**THE *DO-IT-ALL* ENERGY & LIGHTING CONTROLLER**

## APPLICATIONS

c UL us

- HVAC equipment
- Indoor/Outdoor lighting
- Meets indoor/outdoor lighting energy code requirements

| CAT. NO. | UPC CODE | TIMER SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| ELC74 | 82523 | 24/120/208-240/277 | 4 | SPDT |
| ELC78 | 82524 | 24/120/208-240/277 | 8 | SPDT |
| ELC712 | 82525 | 24/120/208-240/277 | 12 | SPDT |
| EPC-LC | 82233 | Accessory Photo Sensor | - | - |
| LCS115M | 82082 | Accessory Momentary Switch | - | SPST |

## FEATURES

**SCHEDULING:** 128 time based events allow individual programs for each day of the week at a minimum 1 minute apart. Event types include ON, OFF, Duration, or Duty Cycle.

**SENSOR EVENT:** 32 sensor driven events allow individual programs for each day of the week.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Adjustable 10° - 70° Northern or Southern latitudes. Settings can be offset from both sunset and sunrise times.

**UNIVERSAL INPUT:** 8 inputs may be assigned to any channel. ELC74 includes 4.
**SWITCHED INPUT:** Accepts input from optional momentary or maintained switch for a timed override.
**PHOTOSENSOR INPUT:** Accepts input from optional sensor. EPC-LC (indoor/outdoor) has a range from 0 - 250 foot-candels.

**MOMENTARY CONTACT:** May be configured for momentary ON/OFF operation to control latching contactors. The ELC74 operates as a two channel unit. The ELC78 operates as a four channel unit. The ELC712 operates as a six channel unit.

**HOLIDAYS:** 26 holidays may be set using 10 individual dates, 10 month type (last Monday in May), or 6 specific holidays with one of 3 independent holiday schedules.

**BLOCK HOLIDAY:** 10 holiday blocks can be set for individual days or for duration of any number of days and may use one of 3 holiday schedules.

**PULSE/TIME DURATION:** 4 different ON settings from 1 second to 23 hours, 59 minutes, 59 seconds.

**DUTY CYCLE:** 4 different ON and OFF patterns from 1 second to 23 hours, 59 minutes, 59 seconds.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**REMOTE OVERRIDE:** Universal input may be programmed for timed override from a momentary or maintained dry contact switch.

**MANUAL OVERRIDE:** Keyboard button control until the next regularly scheduled ON or OFF, automatic operation then resumes.

**STAGGERED START:** Optional stagger up time between channels, after a power outage; selectable from 5 seconds, 15 seconds, 30 seconds, 1 minute, 5 minutes, 10 minutes, and 15 minutes.

**CLOCK FORMAT**: AM/PM or 24 hour format.

**POWER OUTAGE BACKUP:** The program and time of day are maintained for a minimum of 2 days by means of a capacitor. After two days, a lithium battery takes over and provides a minimum accumulated time of 1 year. The lithium battery should provide over 10 years of protection.

**STANDARDS:** Listed UL916.

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
24/120/208-240/277VAC, 50/60Hz.

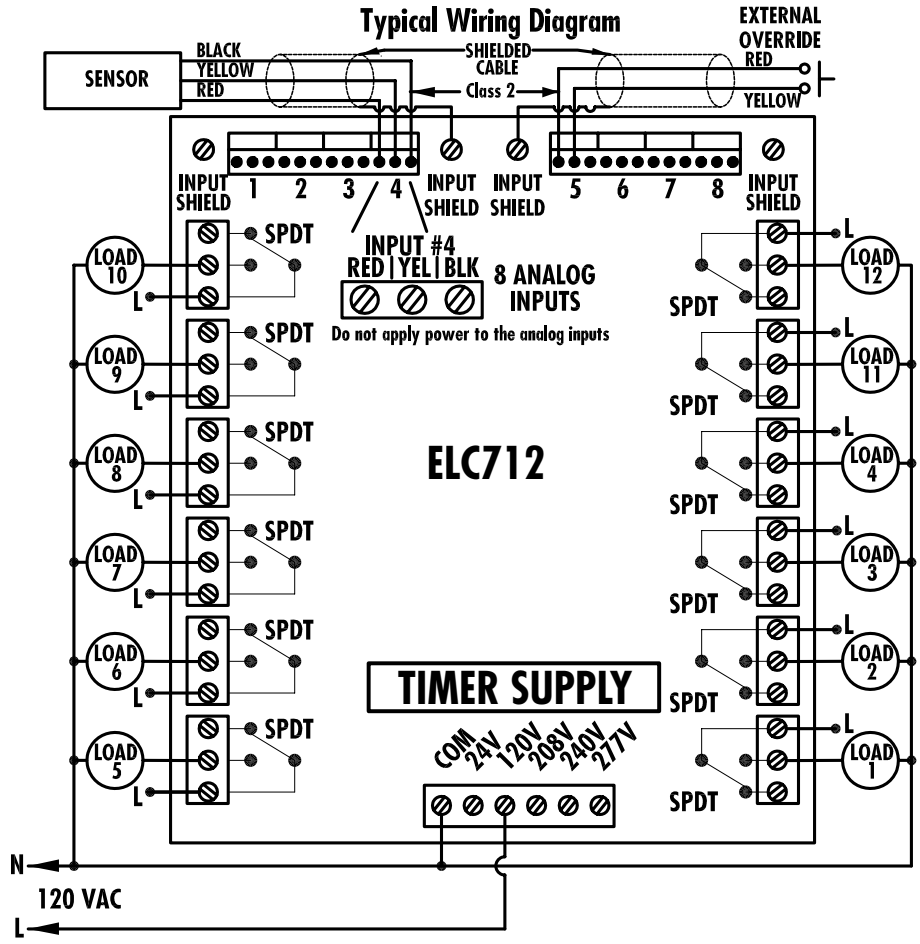
**TERMINAL RANGE:**
#10 - #16AWG for line input.
#10 - #16AWG for load output.
#14 - #22AWG universal input.

**OPERATING TEMPERATURE:**
-20 °F to +140 °F (-29 °C to + 60 °C).

**POWER CONSUMPTION:** 10VA Maximum.

**ENCLOSURE:** Metal Indoor NEMA 1 with lockable hasp (see pages 589-593 for enclosure dimensions).

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| General Purpose | 24/120 - 277 | 20A | 15A |
| Ballast | 120-277 | 20A | 20A |
| Tungsten | 120-277 | 5A | - |
| Pilot Duty | 120-240 | 470VA | 275VA |
| Motor | 120<br>208-277 | 1HP<br>2HP | 1/4HP<br>1/2HP |



# DLC400BP
## 4 ZONE LIGHTING CONTROL TIME SWITCH

**FLEXIBLE INDOOR & OUTDOOR LIGHTING CONTROLLER**




## APPLICATIONS

c UL us

### INTERIOR LIGHTING
- Open office zoning
- Hallways
- Meeting and sales areas
- Stock rooms and warehouses

### EXTERIOR LIGHTING
- Signage and store windows
- Security
- Parking lots

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| DLC400BP | 82191 | 120/208-240/277 | 4 | SPDT |
| USB-MMP | 82196 | Memory Module Programmer | Includes Software | |
| SS410 | 14033 | 24VAC/24VDC | - | SPDT |

## FEATURES

**CONFIGURABLE ZONES:** Simple three position slide switch sets logic for each zone: Time ON/Time OFF, Photo ON/Photo OFF, or Photo ON/ Time OFF.

**SCHEDULING:** 99 ON & OFF set points allow individual programs for each day of the week. Minimum 1 minute apart.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. **1.** Adjustable 10° - 60° Northern or Southern latitudes. **2.** Can be individually offset +/-1-240 minutes from both sunset and sunrise times.

**PHOTOSENSOR INPUT:** EPC2 photo sensor included.

**LIGHT LEVEL ACTIVATION:** Turn ON and OFF level is user settable from 1 to 100 footcandle. Each channel has an independent setting.

**REMOTE OVERRIDE:** Maintained dry contact closure or use TORK Model SS410 for timed override with flash warning before OFF. May use with occupancy sensor as override.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**SEASONS:** 1 to 4 with different daily schedules which can wrap around into the new year.

**HOLIDAYS:** 1 to 24 individual dates.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**POWER OUTAGE BACKUP:** Permanent schedule retention with memory module. Battery provides real time backup for 6 months cumulative.

**MEMORY MODULE:** Removable MM can be programmed at any one location and inserted into another DZS series unit.

**OPTION:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.

**STANDARDS:** Listed UL916.

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
120/208 - 240/277VAC, 50/60Hz.

**TERMINAL RANGE:** #10 - #14AWG.

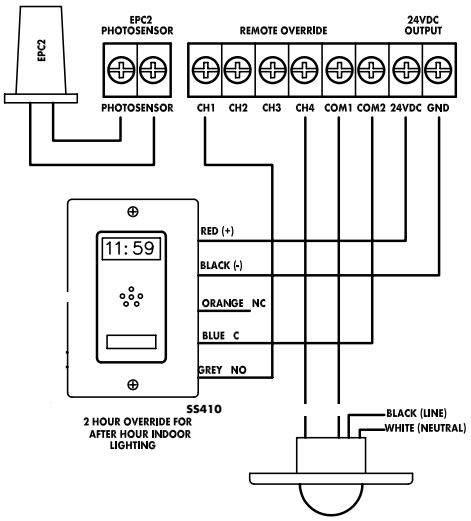
**OPERATING TEMPERATURE:**
-40 °F to +158 °F (-40 °C to + 55 °C).

**POWER CONSUMPTION:** 30VA Maximum.

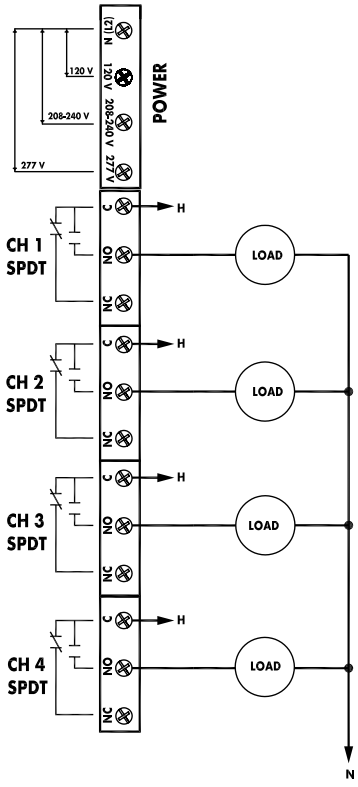
**ENCLOSURE:** Metal Indoor/Outdoor NEMA 3 with lockable hasp (see pages 589-593 for enclosure dimensions).

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| General Purpose | 24-277, 30VDC | 30A | 30A |
| Ballast | 120-277 | 20A | 10A |
| Tungsten | 120 | 10A | |
| Pilot Duty | 120-277 | 720VA | 720VA |

### DLC400BP
### AUXILIARY CONNECTIONS




### TORK DIGITAL CONTROL TERMINAL BLOCK



# LD SERIES
## EXTENDED LIGHTING CONTROL LIGHTING DELAY TIME SWITCH



ASHRAE 90.1

**ADD A WARNING BLINK TO ANY CONTROL**

## APPLICATIONS

- Open offices
- Gymnasiums
- Warehouses
- Outdoor recreation courts
- User-activated lights with time limits
- Match with photocontrol and timer to limit hours of use

## SPECIFICATIONS

**INPUT VOLTAGE:**
120/208/240/277VAC, 50/60Hz.

**TERMINAL RANGE:** #10 - #16AWG for line/load. #18 - #26AWG switch input.

**OPERATING TEMPERATURE:**
-22 °F to 150 °F (-30 °C to +65 °C).

**POWER CONSUMPTION:**
5VA Maximum.

**ENCLOSURE:** Metal Indoor NEMA 1 with lockable hasp (see pages 589-593 for enclosure dimensions).

## FEATURES

**MAINTAINED INPUT WITH LOAD WARNING BLINK:**
LDS Series controls output load contacts based on power applied to the time switch input contact. At removal of power from the time switch input, LDS Series provides 1 second blink then keeps load contacts closed for an extra 1 or 5 minutes (user selectable) before turn off.

**MAINTAINED INPUT WITH AUXILARY WARNING:**
LDSH Series controls output load contacts based on power applied to the time switch input contact. At removal of power from the time switch input, LDSH Series closes a second set of contacts for a user supplied audible or visual warning device. The warning circuit closes for a selected time of 4 seconds (best for audible device or continuous, then keeps load contacts closed for an extra 1 or 5 minutes (user selectable) before turn OFF.

**MOMENTARY INPUT:** Provides timed override when time switch input contact is unpowered (timer OFF). When activated during the warning period, load contacts are kept closed and timing starts. Both series can accept momentary input contact closure for ON to start the timing and OFF to end the timing.

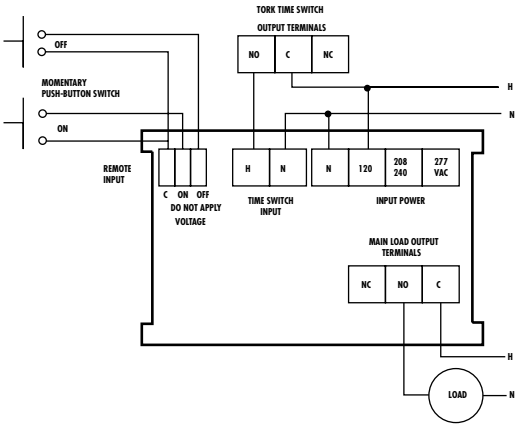
**TIMED OVERRIDE SETTINGS:** User may select override times of 1/2, 1, 1½, 2, 6, 9, or 12 hours. Warning before OFF is always active after override time.

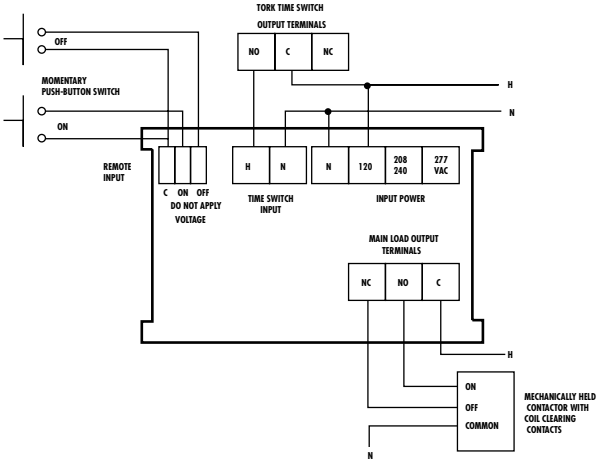
**STANDARDS:** Listed UL917.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| LDS-A | 81026 | 120/208-240/277 | SPDT | Metal Indoor NEMA 1 |
| LDS | 81025 | 120/208-240/277 | SPDT | Mechanism |
| LDSH-A | 81031 | 120/208-240/277 | SPDT | Metal Indoor NEMA 1 |

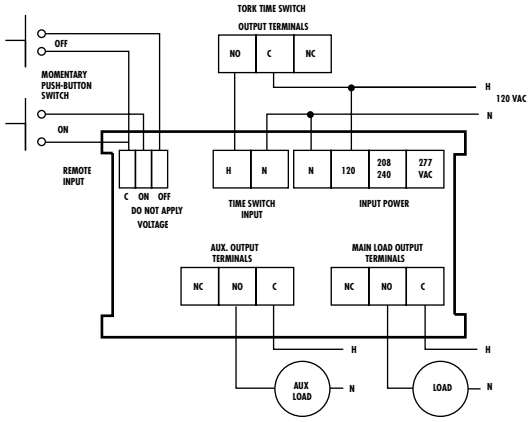
| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| General Purpose | 24/240<br>277 | 20A<br>20A | 10A<br>3A |
| Ballast | 120<br>208-277 | 20A<br>10A | 10A<br>3A |
| Tungsten | 120-277 | 5A | 3A |
| Pilot Duty | 120-240<br>277 | 470VA<br>690VA | 275VA |
| Resistive | 28VDC | 20A | 10A |

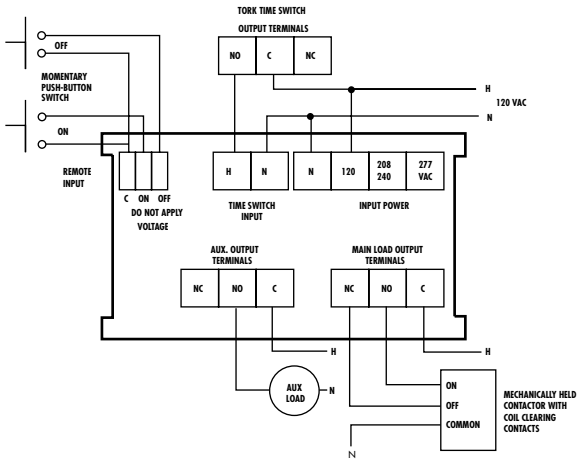
## LDS WIRING



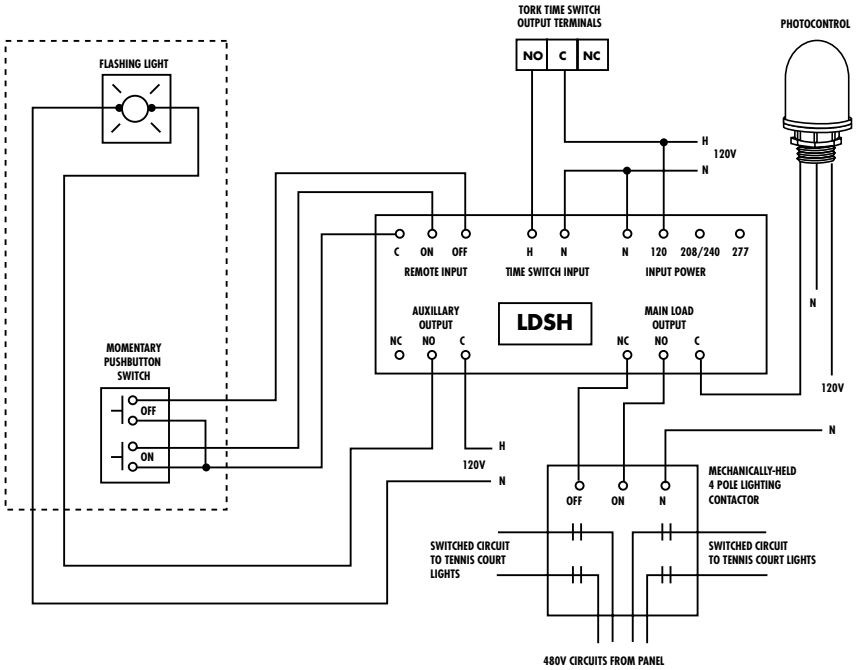




## LDSH WIRING




## APPLICATION WIRING



# DGS SERIES
## SIGNALING AND DUTY CYCLE 24 HOUR OR 7 DAY TIME SWITCH



**31 DAY CYCLE TIME: AN INDUSTRY FIRST!**

## APPLICATIONS

- Signaling
- Duty cycle

## FEATURES

**DG180A & DG280A:** 56 ON & OFF set points provide daily repeated programs. Minimum setting is 1 minute.

**DGS100A:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.

**DUTY CYCLE & SIGNALING:** Two different ON/OFF patterns or signal durations may be programmed. The durations can be up to 23 hours, 59 minutes and 59 seconds in length.

**SKIP FUNCTION (24 HOUR UNITS ONLY):** Each channel can be set for ACTIVE/SKIP operations that alternate from 1 - 31 days. This becomes an effective way to cycle loads on varying days within the month. Using the two-circuit DG280A, two loads can be set to operate on alternate days in a simple manner.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM or 24 hour.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.

**STANDARDS:** Listed UL916

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|---|---|---|---|---|
| 24 HOUR MODELS | | | | |
| DG180A | 82206 | 120-277 | 1 | DPDT |
| DG280A | 82207 | 120-277 | 2 | SPDT |
| DG280A-24 | 82220 | 24VAC | 2 | SPDT |
| 7 DAY MODELS | | | | |
| DGS100A | 82205 | 120-277 | 1 | DPDT |
| DGS100A-12 | 82218 | 12VDC | 1 | DPDT |
| DGS100A-24 | 82219 | 24VAC | 1 | DPDT |

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:**
120 - 277 VAC, 50/60 Hz (auto detection).

**TERMINAL RANGE:** #12 - #18AWG.

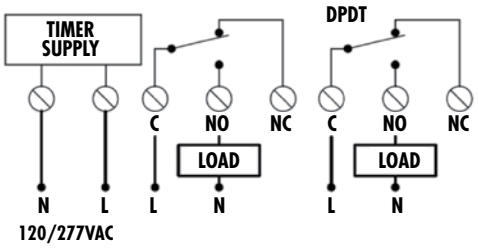
**OPERATING TEMPERATURE:**
-31 °F to +131 °F (-35 °C to + 55 °C).

**POWER CONSUMPTION:** 6VA Maximum.

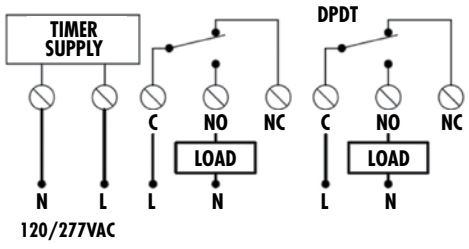
**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R with lockable hasp (see pages 589-593 for enclosure dimensions).

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| Resistive | 24-277 | 20A | 10A |
| Ballast | 120-277 | 20A | 10A |
| Tungsten | 120 | 15 A | - |
| Pilot Duty | 120<br>240 | 720VA | 290VA<br>360VA |
| Motor | 120<br>240 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Resistive | 28VDC | 20A | 10A |

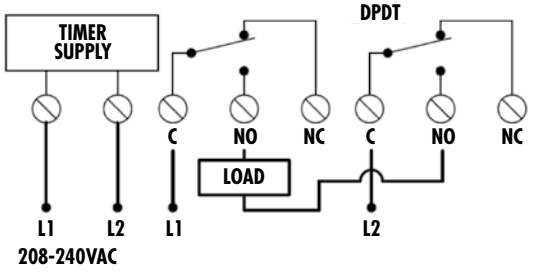
DGS100A
FOR 120V/277VAC



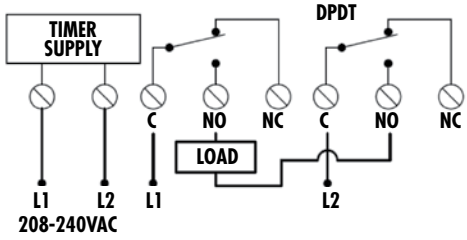

DG180A
FOR 120V/277VAC



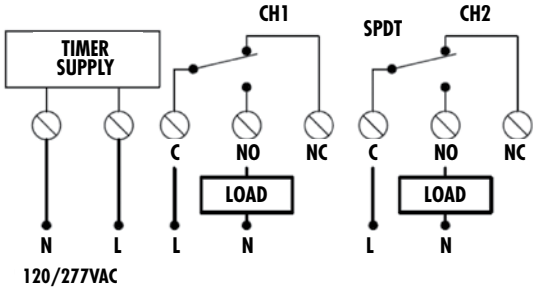

DGS100A
FOR 208-240VAC




DG180A
FOR 208-240VAC




DG280A



# EJWT & E500T SERIES

## DELAY, INTERVAL & PERCENTAGE TIME CYCLE TIME SWITCHES

**PERFECT FOR PROCESS CONTROL**




EJWT

E502T

E501T

## APPLICATIONS

- Poultry and livestock
- Agriculture or greenhouse
- Oil well pumping
- Ventilation
- Process control

## FEATURES

**EJWT – PERCENTAGE TIMER**
960 time combinations with two dials.
Cycle Time Dial sets 32 repeating cycles from 15 seconds to 24 hours.
Percentage ON Dial has 32 steps from 0% to 100%.
Repeats cycle as long as power is applied.

**E500T – ON DELAY TIMER**
Dial sets 30 time delay durations from 5 seconds to 3 hours.
External switch activated starts delay to ON.
Runs until external switch turns OFF.

**E501T – AUTO OFF INTERVAL TIMER**
Dial sets 30 time durations from 10 seconds to 12 hours.
Start/Stop button or External switch starts interval ON.
Automatically turns OFF at end of preset time.
START/STOP or External switch turns OFF.

**E502T – OFF DELAY TIMER**
Dial sets 30 time durations from 5 seconds to 3 hours.
External switch starts interval ON.
Automatically turns OFF at end of preset time.
External switch turns OFF.

**STANDARDS:** Listed UL916.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | OUTPUT CONTACT |
|---|---|---|---|
| EJWT | 82513 | 120-240 | SPDT |
| E500T | 82514 | 120-240 | SPDT |
| E501T | 82515 | 120-240 | SPDT |
| E502T | 82516 | 120-240 | SPDT |

| TYPE | VOLTAGE (VAC) | RATING NO | RATING NC |
|---|---|---|---|
| General Purpose | 120-240 | 20A | 10A |
| Resistive | 120-240 | 20A | 10A |
| Motor | 120<br>208-240 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Pilot Duty | 120/240 | 470VA | 275VA |

## SPECIFICATIONS

**TIMING ACCURACY:** 1% of timing range.

**INPUT VOLTAGE:** 120/240VAC, 60Hz.

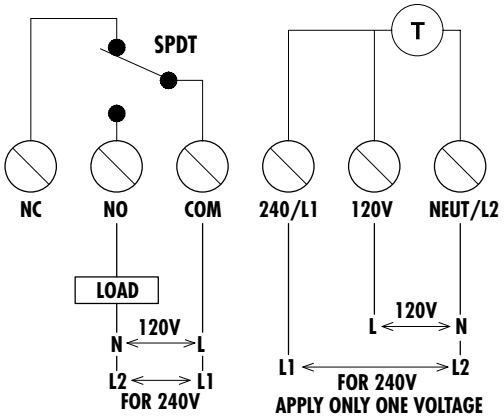
**TERMINAL RANGE:** #12 - #18AWG.

**OPERATING TEMPERATURE:**
32°F to +122°F (0°C to + 50°C).

**POWER CONSUMPTION:** 16VA Maximum.

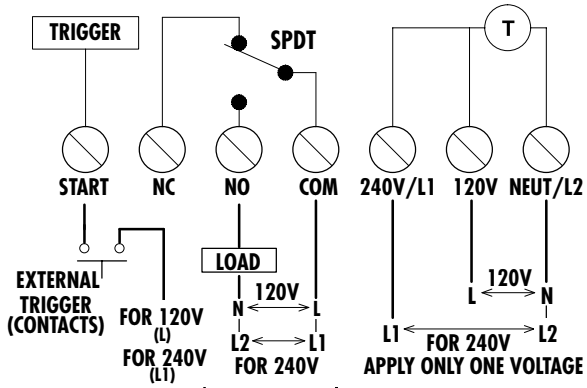
**ENCLOSURE:** Indoor NEMA 4X is standard
(see pages 589-593 for enclosure dimensions).

### EJWT




Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.

### E500T / E501T / E502T




Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.

# PCT15M
## PANEL MOUNT CYCLE TIME SWITCHES




## APPLICATIONS

- Oil field pumping stations
- Poultry and livestock feeding and watering
- Ventilation
- Process control

## FEATURES

**FIXED TIMER CYCLE:** 15 minutes repeating cycle when unit is powered.

**PERCENTAGE ON:** 1% to 99% increments.

**DISPLAY:** Digital percentage reading.

**ON SETTING:** Hold ON.

**OFF SETTING:** Hold OFF.

**POWER OUTAGE BACKUP:** Remembers place in cycle when power resumes.

**TEST MODE:** For temporary ON/OFF cycle verification.

**PANEL MOUNTING:** 3" diameter back housing retrofits to existing mechanical timer dimensions. Two sets of mounting dimensions to choose from. (see pages 589-593 for enclosure dimensions).

**STANDARDS:** Listed UL60370 (formerly UL917).

## SPECIFICATIONS

**TIMING ACCURACY:** 1% of timing range.

**INPUT VOLTAGE:** 120-240VAC, 50/60Hz (automatic detection).

**TERMINAL RANGE:** #14 - #16AWG for line input, #12 - #16AWG for load output.

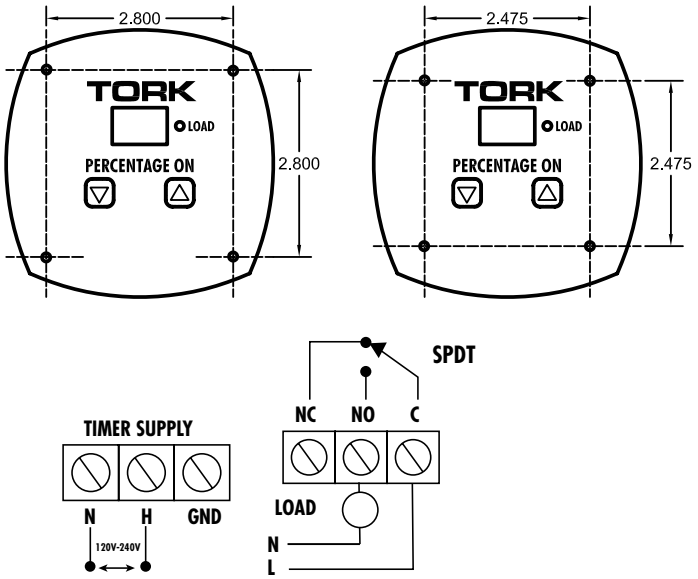
**OPERATING TEMPERATURE:** -40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 5VA Max.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | OUTPUT CONTACT |
|---|---|---|---|
| PCT15M | 82528 | 120-240 | SPDT |

| TYPE | RATINGS | |
|---|---|---|
| | NO | NC |
| 120-240VAC General Purpose & Resistive | 20A | 20A |
| 120VAC Motor | 1HP | 1/4HP |
| 240VAC Motor | 2HP | 1/2HP |

### PCT15M



# ACT30MA
## ADJUSTABLE CYCLE TIMER TIME SWITCHES




## APPLICATIONS

- Poultry and livestock feeding and watering
- Agriculture irrigation for field or greenhouse
- Oil well pumping daily cycle
- Ventilation
- Process control

## FEATURES

**960** time combinations with two dials

ON time dial sets 30 time steps from 30 seconds to 15.5 minutes

OFF dial has 30 steps time steps from 30 seconds to 15.5 minutes

Repeats cycle as long as power is applied

Hold On or Hold Off positions included

**STANDARDS:** Listed UL916.

## SPECIFICATIONS

**INPUT VOLTAGE:** 120-240VAC.

**TERMINAL RANGE:** #18 - #12AWG.

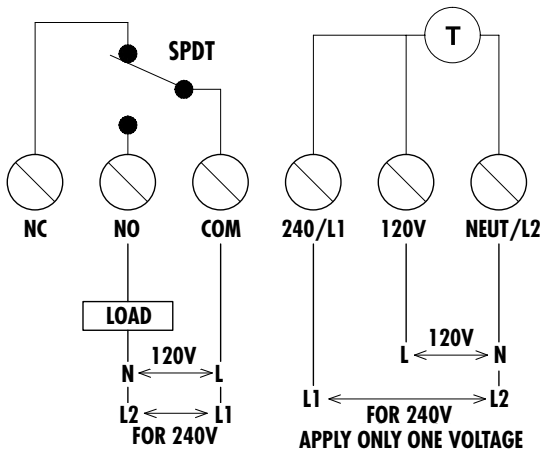
**CONTACTS:** SPDT.

**ENCLOSURE:**
Indoor NEMA 4X is standard (see pages 589-593 for enclosure dimensions).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | OUTPUT CONTACT |
|---|---|---|---|
| ACT30MA | 82527 | 120-240 | SPDT |

| TYPE | RATINGS NO | RATINGS NC |
|---|---|---|
| 120-240VAC General Purpose & Resistive | 20A | 10A |
| 120VAC Motor | 1HP | 1/4HP |
| 208-240VAC Motor | 2HP | 1/2HP |
| 120-240VAC Pilot Duty | 470VA | 275VA |

### ACT30MA



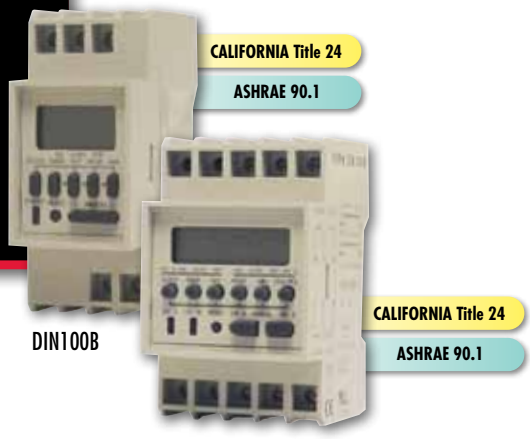

Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.

# DIN SERIES
## 1 OR 2 CHANNEL
## 7 DAY TIME SWITCH

CALIFORNIA Title 24

ASHRAE 90.1

PANEL BUILDERS' CHOICE



DIN100B



DIN200B

CALIFORNIA Title 24

ASHRAE 90.1

## APPLICATIONS

- Panel builders
- Indoor/Outdoor lighting
- Security systems
- HVAC equipment

## FEATURES

**SCHEDULING:** 8 ON and OFF pairs of set points for DIN100B. 4 ON and OFF (CH A) and 3 ON and OFF (CH B) pairs of set points for DIN200B. Individual programs on each day of the week. Minimum setting is 1 minute.

**MANUAL OVERRIDE:** Until the next regular scheduled ON or OFF, automatic operation then resumes.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Battery retains time and schedule.

| CAT. NO. | UPC CODE | DRY CONTACTS | CLOCK INPUT (VAC)50/60 Hz | NO. OF CHANNELS | NUMBER OF ON/OFF |
|---|---|---|---|---|---|
| DIN100B | 82193 | SPDT | 120 | 1 | 8 |
| DIN200B | 82192 | SPDT | 120 | 2 | 4 Channel A<br>3 Channel B |

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| Resistive | 120 | 16A | 16A |
| General Purpose | 120 | 8A | 8A |
| Motor (DIN100 only) | 120 | 1/2HP | |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC, 50/60Hz.

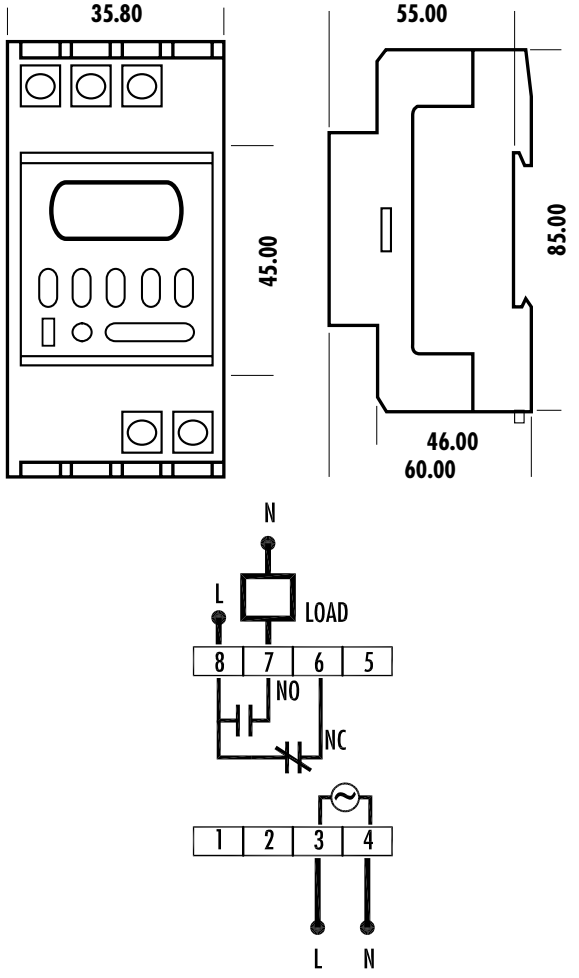
**TERMINAL RANGE:** #12 - #18AWG.

**OPERATING TEMPERATURE:**
DIN100B: 14 °F - 131 °F (-10 °C - +55 °C).
DIN200B: 14 °F - 113 °F (-10 °C - +45 °C).

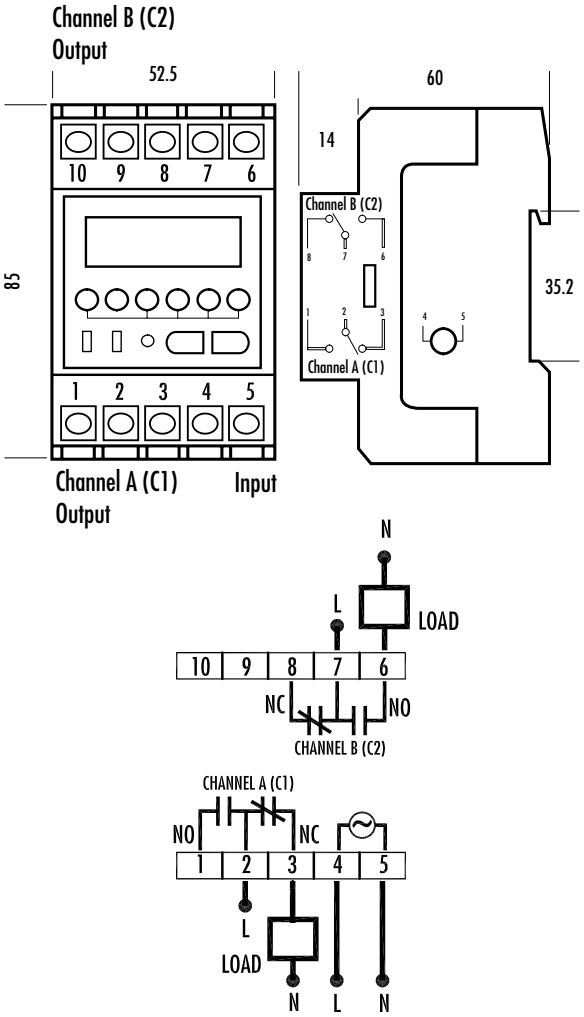
**POWER CONSUMPTION:** 4VA Maximum.

**MOUNTING:** DIN rail #50022 (35mm) or flat surface using supplied adapter.

**DIN100B**




**DIN200B**



# SMC SERIES
## MOMENTARY CONTACT ADAPTER



## APPLICATIONS

- Converts maintained contacts for pulse switching
- Timer to latching contactor control
- Photocell to latching contactor control Signaling

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC, 50/60Hz.

**TERMINAL RANGE:** #12 - #18AWG.

**OPERATING TEMPERATURE:** -31 °F to +131 °F (-35 °C to + 55 °C).

**POWER CONSUMPTION:** 6VA max.

**ENCLOSURE:** Noryl® Indoor/Outdoor NEMA 3R with lockable hasp (see pages 589-593 for enclosure dimensions).

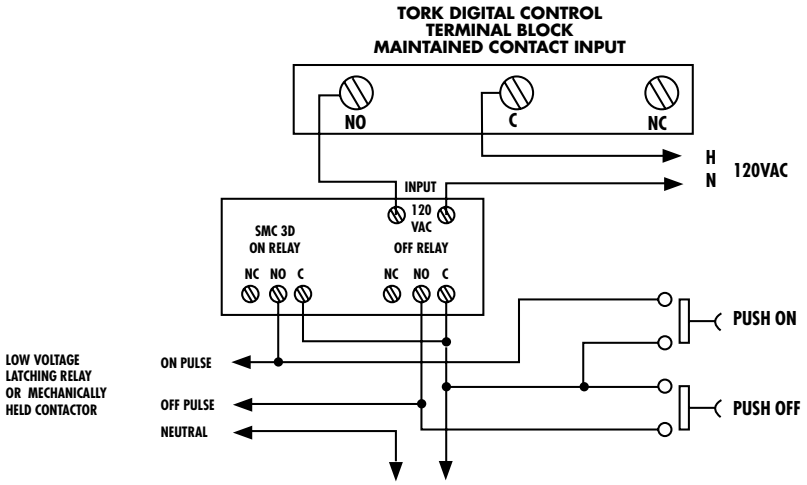
| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| SMC3D | 52011 | 120 | SPDT Momentary |

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | NO | NC |
| Resistive | 120 | 10A | 10A |
| General Purpose | 120 | 10A | 10A |
| Motor | 120 | 1/4HP | |

## FEATURES

**MAINTAINED INPUT:** SMC3D accepts maintained input power from any 120 volt control. When power is applied or removed a short contact closure (pulse) is created on the dry output contacts.

**MOMENTARY OUTPUT:** SMC3D provides two dry output contacts. The ON contact provides a 2 second contact closure (pulse) when power is applied to the input contacts. The OFF contact provides a 2 second pulse when power is removed from the input contacts.



# 5401A SERIES
## INCREASED AMPERAGE & VOLTAGE SWITCHING 40 AMP CONTACTORS




5401A 5441A

## APPLICATIONS

- Lighting loads
- Exhaust fans
- Electric and hot water heaters
- Refrigeration and defrosting

| CAT. NO. | UPC CODE | COIL VOLTS | NO. OF CONTACTORS | OUTPUT CONTACTS |
|---|---|---|---|---|
| 5401A | 81019 | 120 | 1 | 3PST |
| 5441A | 81020 | 120 | 4 | 3PST |

| TYPE | VOLTAGE (VAC) | FLA | RATING |
|---|---|---|---|
| Tungsten* | 120 | - | 30A |
| Ballast* | 120/277 | - | 40A |
| LED* | 120/277 | - | 40A |
| Motor (Single Phase) | 120<br>240 | 40<br>40 | 3HP<br>7.5HP |
| Motor (3 Phase) | 240<br>480 | 40<br>40 | 10HP<br>20HP |
| Coil Data: 120VAC @ 60Hz 6VA Holding/seal; 60VA inrush | | | |

* Ratings for single phase load

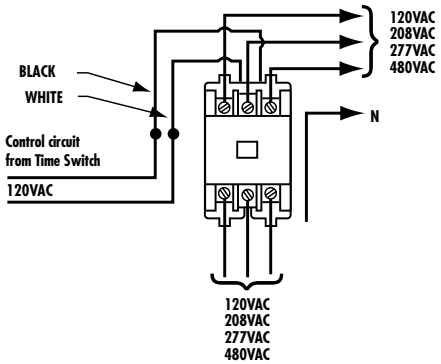
## FEATURES

**CONTACT RATINGS:** Can switch up to 40 AMPS per pole from 120VAC to 277V lighting loads, one to three circuits simultaneously.

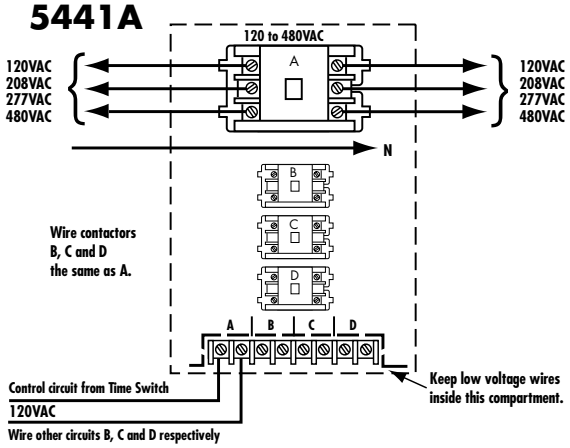
**EASY WIRING:** Includes 120 volt control wiring compartment. 5441 has terminal strip pre-mounted for quick connection.

**ENCLOSURE:** Metal NEMA 1 Indoor enclosure (see pages 589-593 for enclosure dimensions).

### 5401A




### 5441A



# HPS STARTER
## FOR HIGH PRESSURE SODIUM LAMPS
## STARTING AID




## APPLICATIONS

- Designed to operate as a starting aid, for all H.P.S. ballasts from 35 to 400 watts, with lamp voltage of 55 or 100 volts.

## SPECIFICATIONS

**LINE VOLTAGE:** 105 - 347VAC.

**LAMP VOLTAGE:** 55 or 100VAC.

**LAMP WATTAGE:** 35 to 400 watts.

**OPERATING TEMPERATURE:** -40 °F to +221 °F (-40 °C to + 105 °C).

**LEAD LENGTH:** 9 inches.

**ENCLOSURE:** Durable, high temperature Lexan® housing.

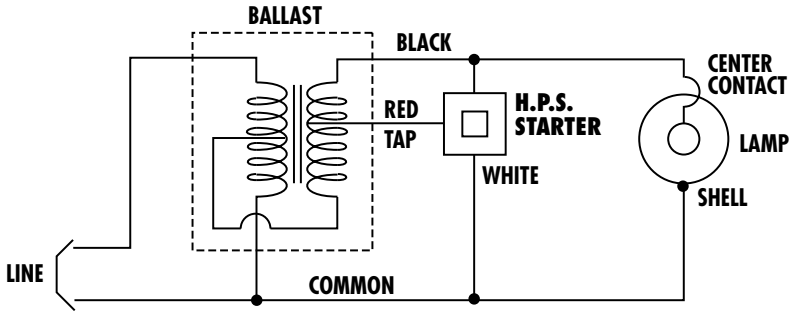
## FEATURES

**SMART VOLTAGE:** Delivers appropriate trigger spikes for lamp ignition, then reduces voltage to good lamps. Continues to feed voltage spikes to old or poorly working lamps.

**HIGH GRADE MATERIAL:** All components are sealed with high grade die-electric material to protect against contaminants and other adverse environmental conditions.

**EASY INSTALLATION:** Universal 3 wire design, color coded for ease of installation.

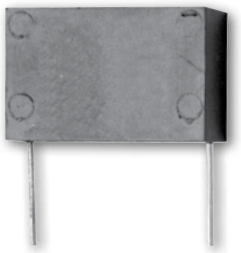
| CAT. NO. | UPC CODE | DESCRIPTION |
|---|---|---|
| HPS30 | 81030 | High Pressure Sodium Starter |




# SURGE SUPPRESSOR
## FOR HIGH ELECTRICAL NOISE

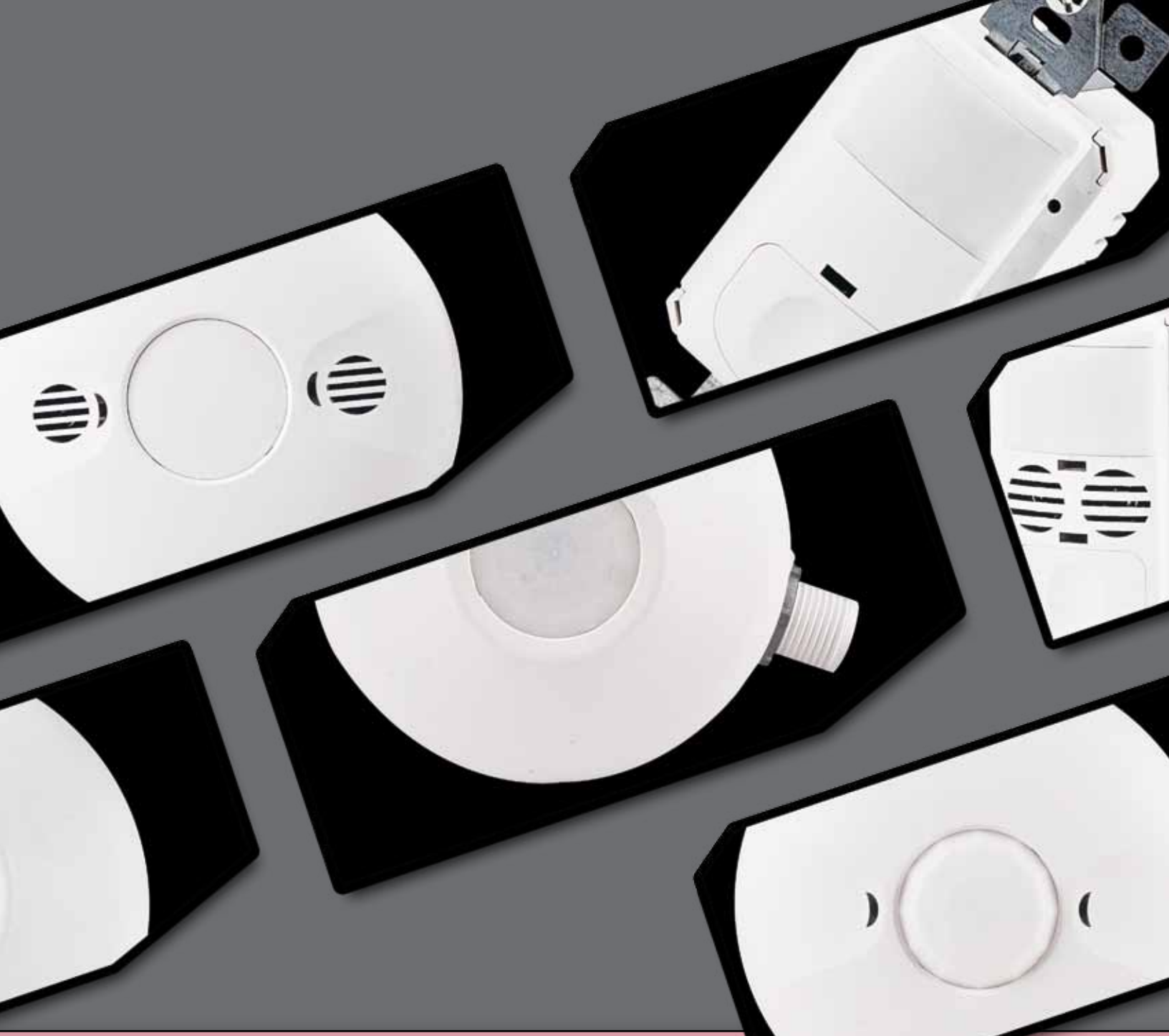
## APPLICATIONS

- For high electrical noise interference, recommended for all digital controls.



| CAT. NO. | UPC CODE | DESCRIPTION |
|---|---|---|
| 90058-1 | 81024 | Surge Suppressor |





# TORK® OCCUPANCY SENSORS

# SENSOR TECHNOLOGY & PLACEMENT GUIDE

## TECHNOLOGY
### PIR AND ULTRASONIC

A ***Passive Infrared Sensor*** (PIR sensor), is a device that measures infrared radiation (IR), or heat, from objects in its field of view. Because it only receives information, it is considered passive. The IR sensor views a human body as an IR generating object. The lens of the occupancy sensor breaks up the field of view into IR sensitive bands. The occupancy sensor is designed to only react when heat is sensed moving from band to band. For PIR occupancy sensors to work, the person must have direct "line of sight" to the PIR sensor and cross between bands.

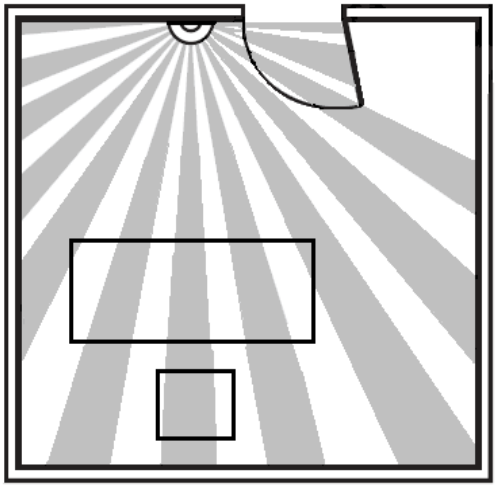
An ***Ultrasonic Sensors*** (US sensor) is a technology that works on a principle similar to radar or sonar. It is an active technology that sends and receives. It emits an inaudible high-frequency sound wave and evaluates the echo which is received back after bouncing around in the room. This allows the sensor to evaluate the whole room and can "look" over walls and obstructions to identify movement.

Both technologies show higher sensitivity closer to the sensor to allow small movements to be noticed. Sensitivity reduces further away from the sensor and may require a walking step to activate the sensor.

## PLACEMENT GUIDELINES
### WALL SENSOR

A ***Wall Switch Sensor*** provides a 180° coverage pattern, extending outward from the sensor. This will allow for instant turn ON when an occupant enters the space. Total area covered will be over 400 square feet.

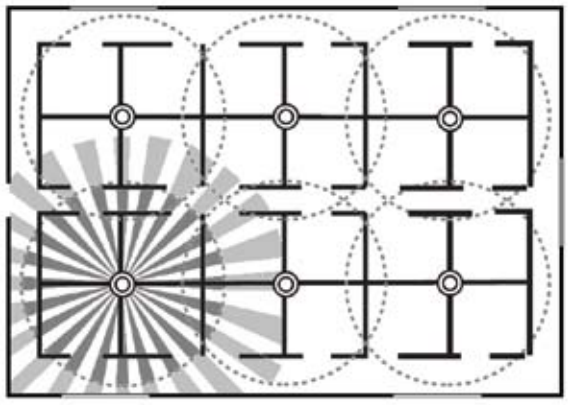
- Proper placement gives the sensor a clear line of sight to the entry door without viewing the hallway.
- The occupant must be able to see the sensor from their normal work position otherwise the sensor will not be able to detect their presence.
- For offices where there are other obstructions between the sensor and the occupant or the entry door, a ceiling sensor is required.

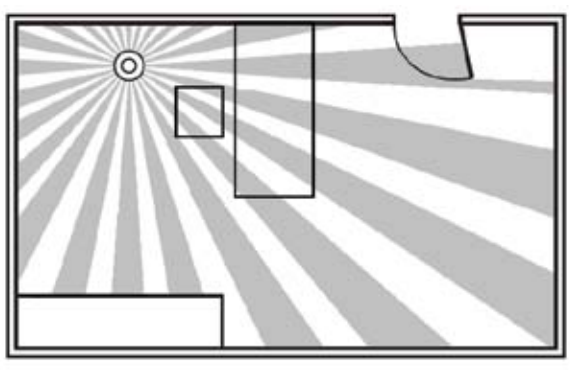


## PLACEMENT GUIDELINES
### CEILING SENSOR

A ***Ceiling Sensor*** provides a 360° coverage pattern of up to 1200 square feet when using passive infrared only. Barriers within the space that block line-of-sight to sensor detection will decrease coverage area when using passive infrared by itself, ultrasonic or dual technology will allow the sensor to get around the obstructions.

- Designed for ceiling mounting at a height of 8-10 feet (mounting sensor at greater heights decreases the sensitivity to motion, while lower mounting height will decrease range).
- The sensor needs a visually unobstructed view of the normally occupied workspace and entry door(s).
- Avoid sensor placement with a direct view out a doorway. Placing the sensor offset from the center and away from the door is recommended.
- If the occupant cannot see a PIR sensor from their normal work position, the sensor will not be able to detect their presence.
- File cabinets, partitions, or walls are typical types of obstructions. If there are other obstructions between the sensor and the occupant, an ultra-sonic or dual technology ceiling sensor is recommended.
- When the photo sensor is used, mount within 15 feet of the widows or skylight and avoid mounting the sensor close to lighting fixtures.
- Place the sensor no closer than 5 feet to an HVAC air duct when using dual technology sensors.
- Open office designs encourage placement of the sensors to allow overlapping coverage of small motion range and a clear view into each cubicle. Walking step motion may cover the entry to the space. Dual technology units provide added sensitivity to small motion.





# WOS SERIES
## PIR WALL SWITCH OCCUPANCY SENSOR



ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

- Offices areas
- Meeting rooms
- Equipment room & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
120VAC 50/60 Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 3 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
120V ¼ HP Motor.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is10 minutes.

**FLASH WARNING:** Optional load flicker 2 minutes before Off.

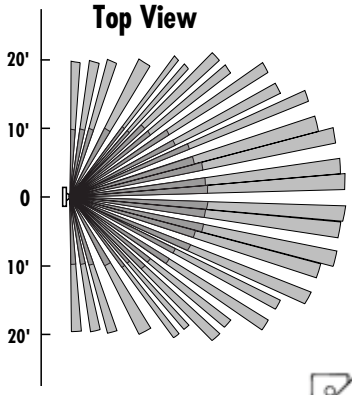
**TAMPER RESISTANT:** Captive button, rugged lens, and optional disable button function for public areas. Use in bathrooms to avoid manual off condition for occupant as another person leaves.

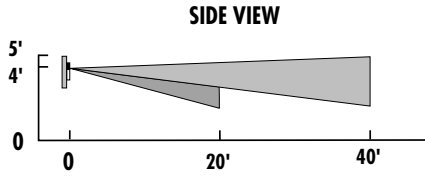
**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

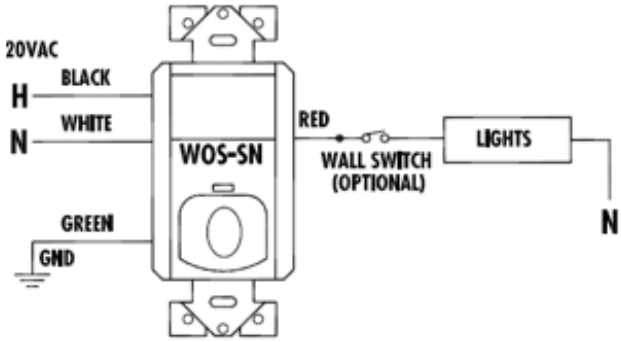
**COLOR:** White (single gang decorator wall plate included).

| CAT NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | WIRING |
|---|---|---|---|
| WOS-SN | 98213 | 120 | Requires Neutral |




180° Field of View



# WOS-M SERIES
## PIR WALL SWITCH OCCUPANCY SENSOR



responsible energy

ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

c UL us

- Offices areas
- Meeting rooms
- Equipment room & storage spaces
- New construction & retrofit

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60 Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
230V 1500W Electronic Ballast & LED.
277V 1800W Electronic Ballast & LED.
120V ¼ HP Motor.

| CAT. NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | WIRING |
|---|---|---|---|
| WOS-M | 98217 | 120/230/277 | No Neutral Required |
| WOS-MN | 98215 | 120/230/277 | Requires Neutral |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

**DAYLIGHT PHOTOSENSOR:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.

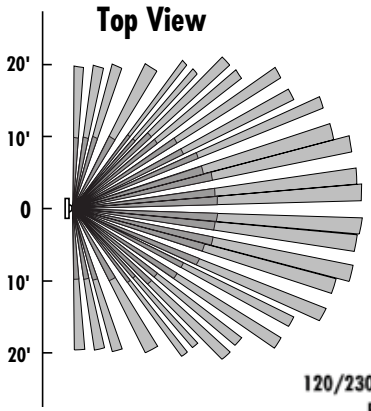
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

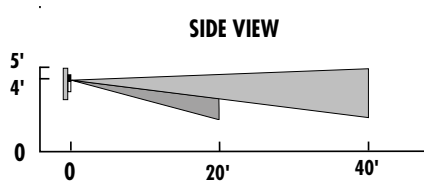
**TAMPER RESISTANT:** Captive button, rugged lens, and optional disable button function for public areas. Use in bathrooms to avoid manual off condition for occupant as another person leaves.

**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

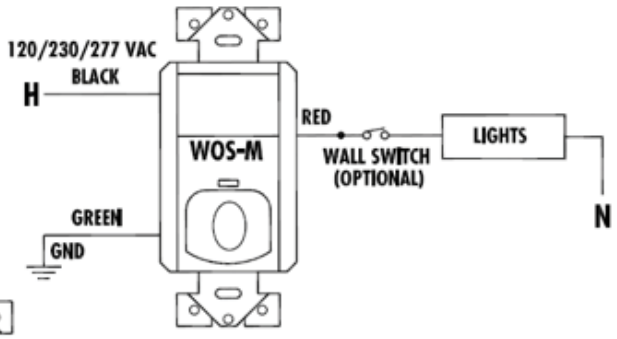
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

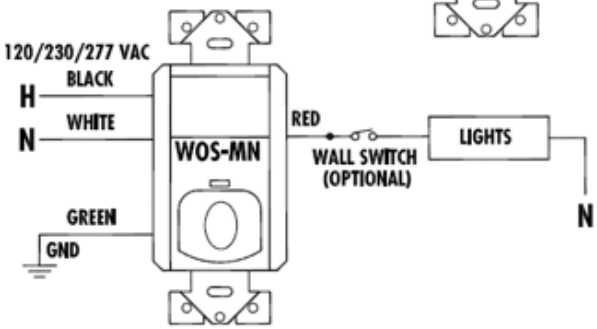
**COLOR:** White (single gang decorator wall plate included).




180° Field of View



# WOS-M2R SERIES
## PIR WALL SWITCH TWO RELAY OCCUPANCY SENSOR



responsible energy

ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

c UL us

- Offices areas
- Meeting rooms
- Equipment room & storage spaces
- New construction & retrofit

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60 Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
230V 1500W Electronic Ballast & LED.
277V 1800W Electronic Ballast & LED.
120V ¼ HP Motor.

| CAT. NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | WIRING |
|---|---|---|---|
| WOS-M2R | 98221 | 120/230/277 | No Neutral Required |
| WOS-MN2R | 98219 | 120/230/277 | Requires Neutral |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming. Each relay can have different settings.
- BATHROOM MODE: set fan relay time delay longer than lighting relay.
- TWO STEP LIGHT LEVEL: set each relay to turn off at different daylighting levels
- PUBLIC AREAS: Disable one relay button manual OFF function. Use in bathrooms to avoid full off condition for occupant as another person leaves.

**MODES:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Facto ry default setting is 10 minutes.

**DAYLIGHT PHOTOSENSOR:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.

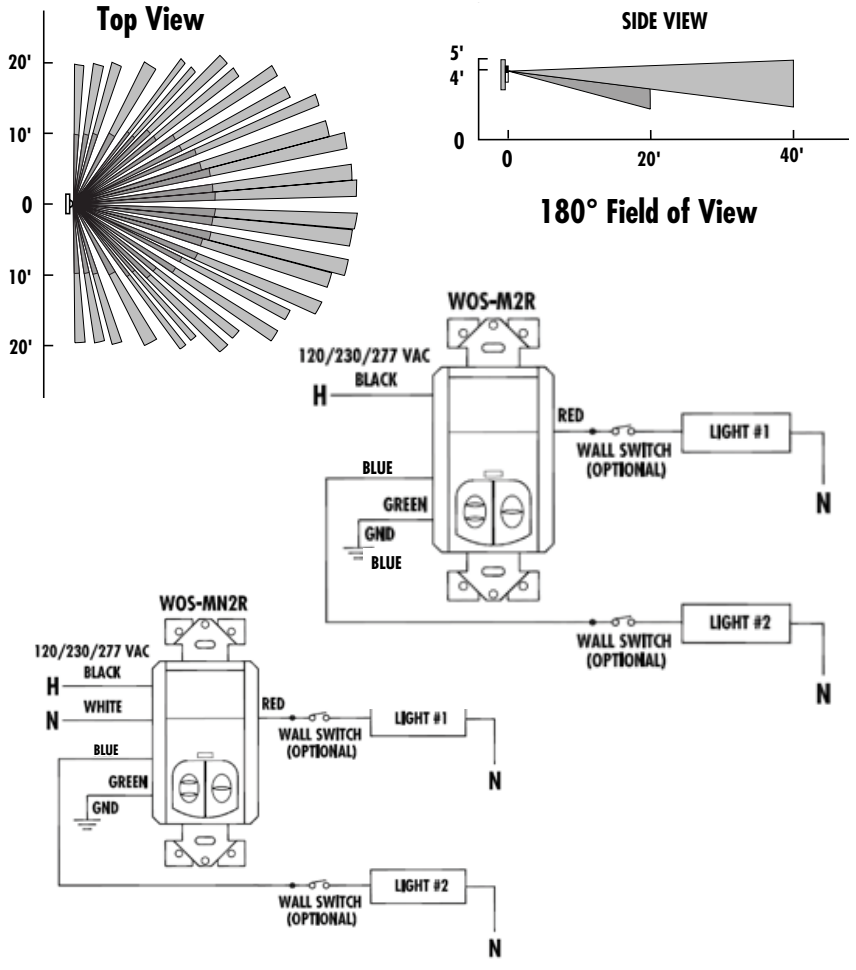
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

**TAMPER RESISTANT:** Captive button, rugged lens, and optional disable button function for public areas.

**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**COLOR:** White (single gang decorator wall plate included).



# WOS-MN2T SERIES
## ULTRASONIC AND PIR WALL SWITCH OCCUPANCY SENSOR



ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

- Offices areas
- Meeting rooms
- Equipment room & storage spaces
- New construction & retrofit

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60 Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C)

**COVERAGE:**
PIR 1200 sq. ft.
Ultra-Sonic 400 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast.
120V 5.8A LED.
230V 1500W Electronic Ballast.
277V 1800W Electronic Ballast.
120V ¼ HP Motor.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming. Each relay can have different settings.
- INITIAL ON: customize and set one technology only to trigger turn on.
- MAINTAIN ON: customize and set one technology to keep lights on.
- PUBLIC AREAS: Disable button manual OFF function. Use in bathrooms to avoid full off condition for occupant as another person leaves.

**MODES:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

**DAYLIGHT PHOTOSENSOR:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.

**FLASH WARNING:** Optional load flicker 2 minutes before Off.

**TAMPER RESISTANT:** Captive button, rugged lens, and optional disable button function for public areas.

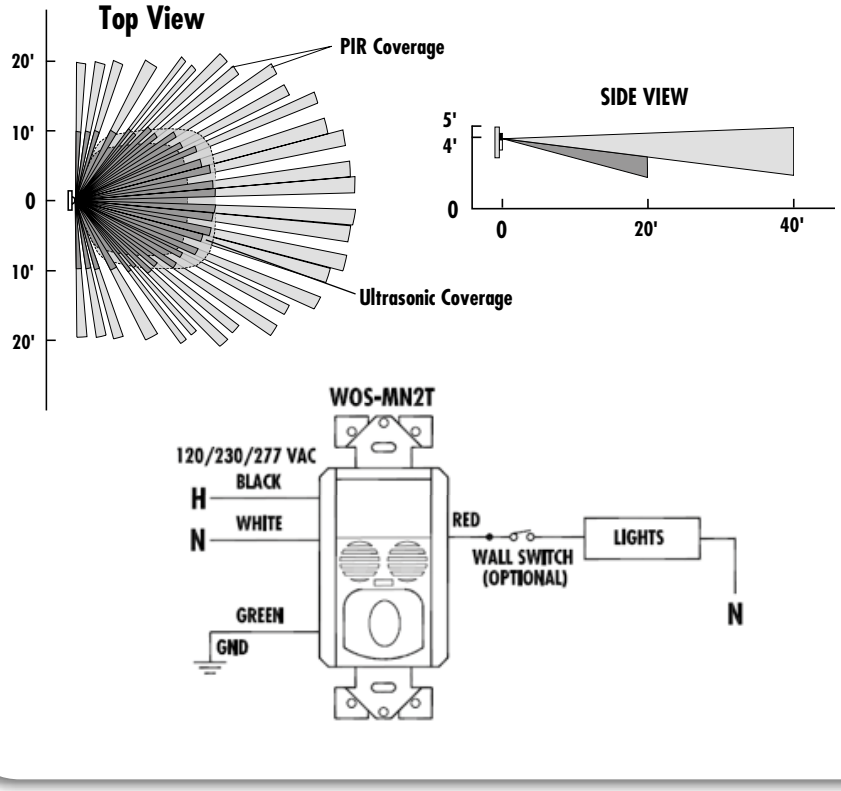
**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

**SENSOR CHOICES:** Factory default setting allows either technology to trigger the unit. Optional is a disable function of one technology for initial and/or maintain on operations.

**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**COLOR:** White (single gang decorator wall plate included).

| CAT. NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | WIRING |
|---|---|---|---|
| WOS-MN2T | 98223 | 120/230/277 | Requires Neutral |



# COS-L2T SERIES
## ULTRASONIC AND PIR CEILING MOUNTING OCCUPANCY SENSOR



ASHRAE 90.1

## APPLICATIONS

- Large offices areas
- Larger meeting rooms
- Classrooms
- Bathroom & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
24VDC.

**CURRENT CONSUMPTION:**
9mA.

**POWER SUPPLY:**
TPR-24I or TRP-24B Power Packs provided separately.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C)

**COVERAGE:**
PIR 1200 sq. ft.
Ultra-Sonic 900 sq. ft.

**WARRANTY:** 5 YRS.

| CAT. NO. | UPC CODE | INPUT SUPPLY | DESCRIPTION |
|---|---|---|---|
| COS-L2T | 98207 | 24VDC | White |
| TRP-24I | 98227 | 120/277VAC | Power Pack |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.
- INITIAL ON: customize and set one technology only to trigger turn on.
- MAINTAIN ON: customize and set one technology to keep lights on.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

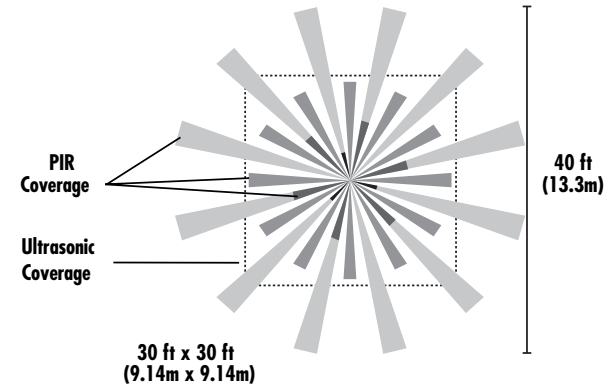
**COVERAGE AREA:** Adjustable for three steps of sensitivity for ultrasonic and two steps for PIR.

**SENSOR CHOICES:** Factory default setting allows either technology to trigger the unit. Optional disable function of one technology for initial and/or maintain on operations.

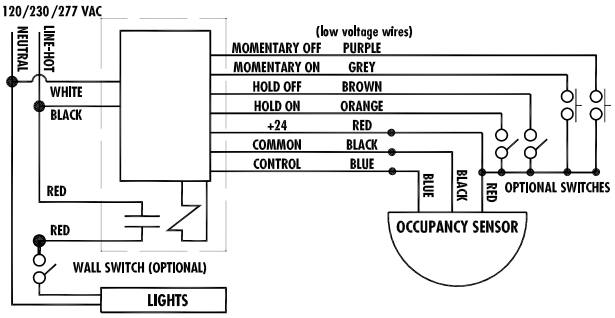
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**TRP OUTPUT:** TRP series is required to power the COS-L2T. A maximum of six Tork occupancy sensors may be connected.

**MOUNTING:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with ½" threaded nipple.




**TRP-24I POWER PACK**



# COS-L SERIES
## PIR CEILING MOUNTING OCCUPANCY SENSOR



ASHRAE 90.1

## APPLICATIONS

- Large offices areas
- Larger meeting rooms
- Classrooms
- Equipment room & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
24VDC.

**CURRENT CONSUMPTION:**
9mA.

**POWER SUPPLY:**
TPR-24I or TRP-24B Power Packs provided separately.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 5 YRS.

| CAT. NO. | UPC CODE | INPUT SUPPLY | DESCRIPTION |
|---|---|---|---|
| COS-L | 98203 | 24VDC | White |
| TRP-24I | 98227 | 120/277VAC | Power Pack |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

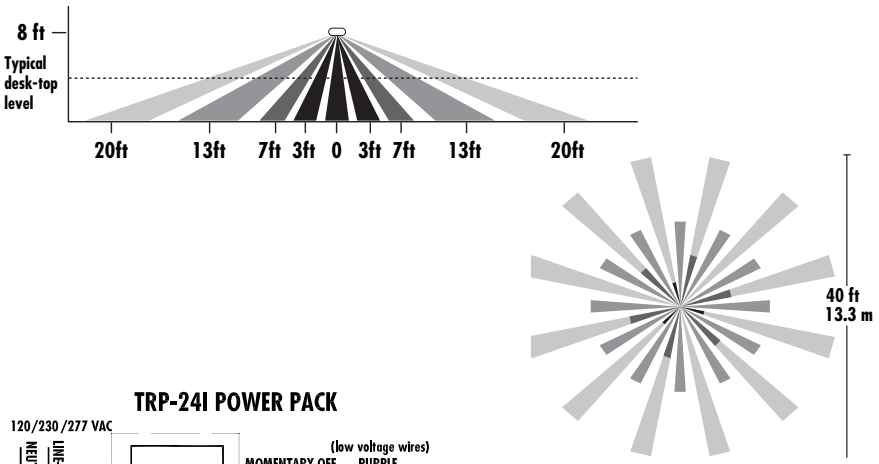
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

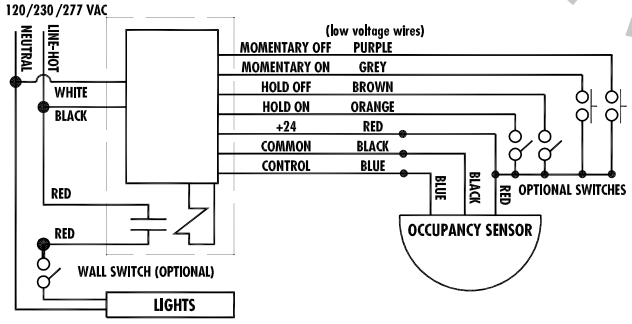
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**TRP OUTPUT:** TRP series is required to power the COS-L. A maximum of six Tork occupancy sensors may be connected.

**MOUNTING:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with ½" threaded nipple.




### TRP-24I POWER PACK



# COS-LU SERIES
## ULTRASONIC CEILING MOUNTING OCCUPANCY SENSOR



ASHRAE 90.1

## APPLICATIONS

- Large offices areas
- Larger meeting rooms
- Classrooms
- Bathroom & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
24VDC.

**CURRENT CONSUMPTION:**
9mA.

**POWER SUPPLY:**
TPR-24I or TRP-24B Power Packs provided separately.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 900 sq. ft.

**WARRANTY:** 5 YRS.

| CAT. NO. | UPC CODE | INPUT SUPPLY | DESCRIPTION |
|---|---|---|---|
| COS-LU | 98205 | 24VDC | White |
| TRP-24I | 98227 | 120/277VAC | Power Pack |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

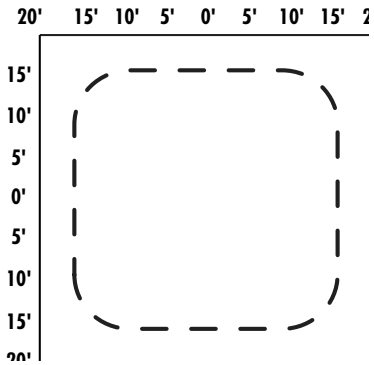
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

**COVERAGE AREA:** Adjustable for three steps of sensitivity.

**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

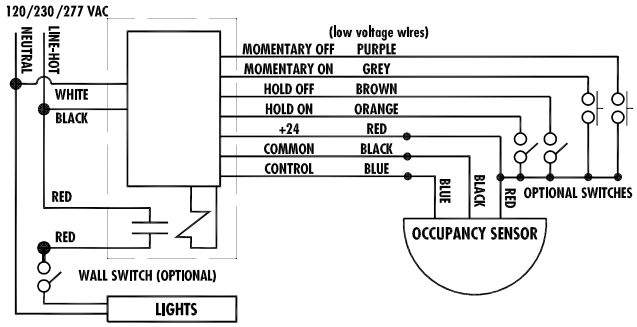
**TRP OUTPUT:** TRP series is required to power the COS-LU. A maximum of six Tork occupancy sensors may be connected.

**MOUNTING:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with ½" threaded nipple.




30 ft x 30 ft
(9.14m x 9.14m)

### TRP-24I POWER PACK



# COS-M SERIES
## PIR CEILING MOUNTING
## LINE VOLTAGE
## OCCUPANCY SENSOR



responsible energy

ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

- Large offices areas
- Larger meeting rooms
- Classrooms
- Equipment room & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60Hz.

**POWER SUPPLY:**
Built-in.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1200 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
230V 1500W Electronic Ballast & LED.
277V 1800W Electronic Ballast & LED.
120V ¼ HP Motor.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

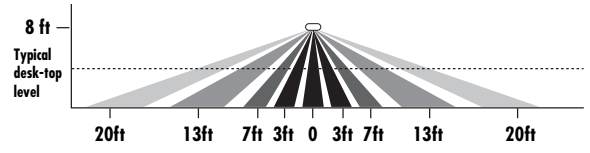
**FLASH WARNING:** Optional load flicker 2 minutes before Off.

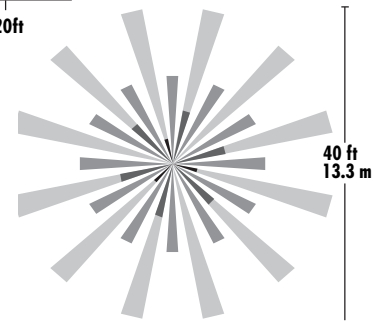
**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

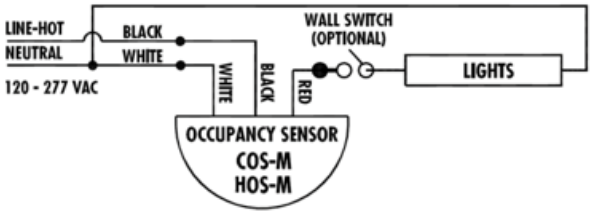
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**MOUNTING:** Mounts direct to a box. Available is optional adapter for pendant or side mounting with ½" threaded nipple.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) | DESCRIPTION |
|---|---|---|---|
| COS-M | 98201 | 120/230/277 | White |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |



# HOS-M SERIES
## HIGH BAY PIR MOUNTING LINE VOLTAGE OCCUPANCY SENSOR



responsible energy

ASHRAE 90.1

LISTED FOR LED

## APPLICATIONS

- Warehouse
- Tall aisle
- High ceiling equipment room & storage spaces

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60Hz.

**POWER SUPPLY:**
Built-in.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**COVERAGE:** 1000 sq. ft.

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 800W Tungsten.
120V 1000W Electronic Ballast & LED.
230V 1500W Electronic Ballast & LED.
277V 1800W Electronic Ballast & LED.
120V ¼ HP Motor.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

**MODES:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.

**TIME DELAY:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.

**FLASH WARNING:** Optional load flicker 2 minutes before Off.

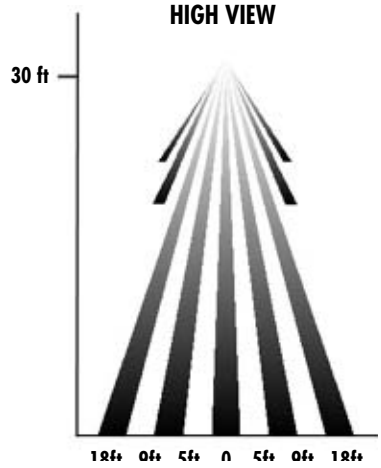
**COVERAGE AREA:** Preset for full coverage area. Optional half size area is selectable.

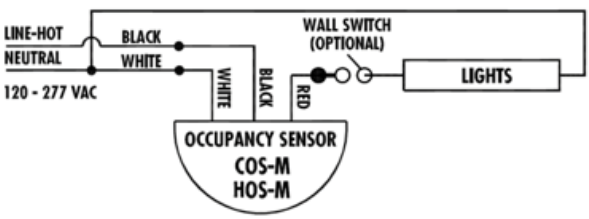
**TEST MODE:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.

**MOUNTING:** Includes as standard an adapter for pendant or side mounting with ½" threaded nipple. Also mounts direct to box or ceiling.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) | DESCRIPTION |
|---|---|---|---|
| HOS-M | 98209 | 120/230/277 | White |

**HIGH VIEW**



# CPS-L SERIES
## CEILING MOUNTING PHOTO SENSOR



ASHRAE 90.1

## APPLICATIONS

- Side window areas of offices
- Spaces with skylights
- Classrooms

## SPECIFICATIONS

**VOLTAGE:**
24VDC.

**CURRENT CONSUMPTION:**
9mA.

**POWER SUPPLY:**
TPR-24B Power Packs provided separately.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**WARRANTY:** 5 YRS.

## FEATURES

**SOFTWARE SET:** Completely customizable functions through button push programming.

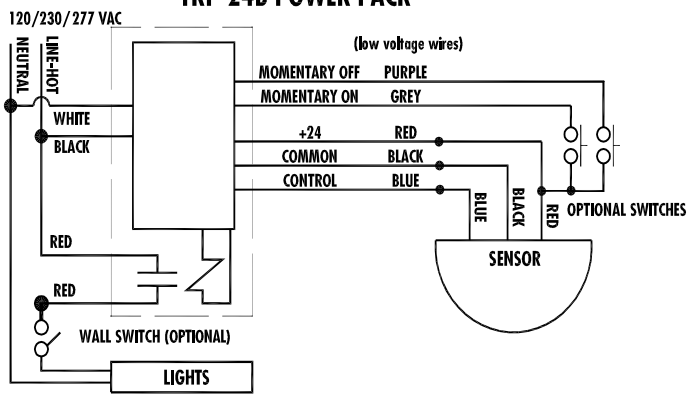
**LIGHT LEVEL SETTING:** Light level between 5 to 200 fc.

**TRP OUTPUT:** TRP series is required to power the CPS-L. A maximum of 12 Tork power packs may be connected.

**MOUNTING:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with ½" threaded nipple.

| CAT. NO. | UPC CODE | INPUT SUPPLY | DESCRIPTION |
|---|---|---|---|
| CPS-L | 98211 | 24VDC | White |
| TRP-24B | 98225 | 120/277VAC | Power Pack |
| COS-ADP | 98229 | 1/2" pendant/side mounting adapter | |

### TRP-24B POWER PACK




TORK OCCUPANCY SENSORS

# TRP-24 SERIES
## POWER PACK FOR OCCUPANCY SENSORS



ASHRAE 90.1

## APPLICATIONS

- Power and switching for occupancy or light sensors
- Power and switching for SS410 auto-off switch
- BAS compatible
- Demand shedding applications
- Low cost momentary switching of loads

## SPECIFICATIONS

**VOLTAGE:**
120/230/277VAC 50/60Hz.

**OPERATING TEMPERATURE:**
32 °F to 131 °F (0 °C to 55 °C).

**WARRANTY:** 5 YRS.

**CONTACT RATINGS:**
120V 15A Incandescent.
120/230277V 20A Ballast.
120V 1 HP Motor.

| CAT. NO. | UPC CODE | INPUT SUPPLY VAC 50/60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| TRP-24B | 98225 | 120/230/277 | SPST |
| TRP-24I | 98227 | 120/230/277 | SPST |
| LCS115M | 82082 | Momentary Switch SPST | |

## FEATURES

**OPERATION:** Switches line voltage loads ON/OFF based on a contact closure from an occupancy sensor, AUTO OFF switch, or relay.

**SENSOR CONTROL:** Three wires for typical device control. Red and black wires for 24VDC output to power a device. Blue control wire to receive ON/OFF signal back from device.

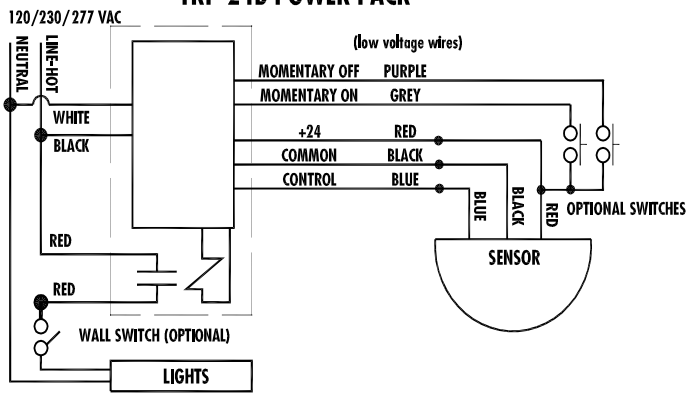
**TRP-24B INPUT:** Two additional input wires to control TRP.
1. ON from momentary switch.
2. OFF from momentary switch.

**TRP-24I INPUT:** Four additional input wires to control TRP.
1. Hold OFF for demand shed control.
2. Hold ON override.
3. ON from momentary switch.
4. OFF from momentary switch.

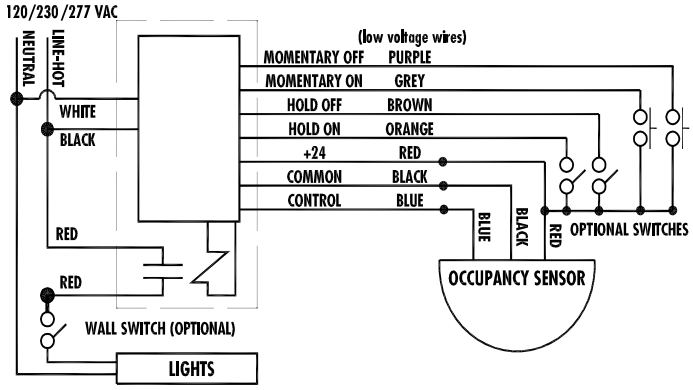
**TRP OUTPUT:** TRP series is a Class 2 Power Supply with 150mA output. A maximum of six Tork COS-L type occupancy sensors may be connected.

**MOUNTING:** Box mount to ½" KO.

### TRP-24B POWER PACK




### TRP-24I POWER PACK








# TORK® IN-WALL TIME SWITCHES

# QUICK REFERENCE GUIDE

| | SS700Z | SS721Z | SS720A | SS720Z | SA170 | 701A<br>711A |
|---|---|---|---|---|---|---|
| Page No. | 509 | 509 | 511 | 512 | 513 | 514 |
| Timer Type | SunSet<br>7 Day<br>Digital | SunSet<br>7 Day<br>Digital | 7 Day<br>Digital | SunSet<br>7 Day<br>Digital | ZipSet<br>Digital | 24 Hour<br>Mechanical |
| Voltage | 120/277 | 120/277 | 120 | 120 | 120 | 120 |
| Minimum Settings ON | 1 min. | 1 min. | 1 min. | 1 min. | 1 min. | 30 min. |
| Minimum Settings OFF | 1 min. | 1 min. | 1 min. | 1 min. | 1 min. | 30 min. |
| Manual Override | Yes | Yes | Yes | Yes | Yes | Yes |
| SunSet (Astronomic) | Yes | Yes | | Yes | ZipSet | |
| ON/OFF Set Points | 10 Pair | 10 Pair | 7 Pair | 7 Pair | 1 Pair | 24 |
| Flash Warning | | | | | | |
| Audible Warning | | | | | | |
| Power Outage Backup | Capacitor | Capacitor | Battery | Battery | Battery | |
| Switch Type | SPST | SPST | SPST | SPST | SPST | SPST |
| Resistive Ratings | 16A | 16A | 15A | 15A | 15A | 15 & 20A |
| LED Ratings | 10A | 10A | | | | |
| Neutral Required for Wiring | No | Yes | Yes | Yes | Yes | Yes |
| 3-Way Wiring | Yes | Yes | No | No | No | No |

| SS403 | SS423 | SS410 | SS | D1060 D212 | A | C |
|---|---|---|---|---|---|---|
| 515 | 515 | 515 | 517 | 518 | 519 | 520 |
| Auto OFF<br>Digital | Auto OFF<br>Digital | Auto OFF<br>Digital | Auto OFF<br>Electronic | Auto OFF<br>Electronic | Auto OFF<br>Mechanical | Auto OFF<br>Mechanical |
| 120/277 | 120/277 | 24 | 24/120/<br>208-240/277 | 120 | 125/250/<br>277 | 125/250/<br>277 |
| 5 min-24 hr | 5 min-24 hr | 5 min-24 hr | 1 min-18 hr | 10-60 min.<br>2-12 hr | Various<br>2 min-12 hr | Various<br>2 min-12 hr |
| 5 min. | 5 min. | 5 min. | 1 min. | 10 min. | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Yes | Yes | Yes | Yes | | | |
| Yes | Yes | Yes | Yes | | | |
| | | | | | | |
| SPST | SPST | SPDT | SPST or SPDT | SPST | SPDT | SPDT or DPST |
| 15A | 15A | 1A | 4A or 7.5A | 15A | 20/10/10A | 20/10/10A |
| 1200W | 1200W | | | | | |
| No | Yes | Yes | No | Yes | No | No |
| Yes | Yes | Yes | SS13<br>Yes | No | No | No |

# TORK® SS700Z & SS721Z

## SunSet IN-WALL TIMER

### SUNSET / SUNRISE / 7 DAY



With wall plate (not included)

LISTED FOR LED

ASHRAE 90.1

**BACK-UP WITHOUT BATTERIES!**

## APPLICATIONS

- Commercial outdoor security lighting
- Interior lobby lighting
- Contactors for fans and motors
- Sign lighting

## SPECIFICATIONS

**TIMING ACCURACY:** Line frequency.

**INPUT VOLTAGE:** 120/277VAC, 50/60Hz.

**WIRE SIZE:** #12AWG input/output - #16AWG 3-way (remote).

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to + 40 °C).

## FEATURES

**SCHEDULING:** 10 ON and OFF pairs of set points for individual programs on each day of the week. 11 day groups speed programming. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Sunset and sunrise times are adjustable from 10°-60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes for earlier or later operation.

**RANDOM MODE:** Varies ON and OFF times to create lived in look when away.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**MANUAL MODE:** Does not run programs until set to AUTO (automatic) mode.

**VACATION MODE:** No operation when away.

**EASY WIRING:**
**SS700Z** does not require a neutral, can be used as a 3-way switch.

**SS721Z** Requires a neutral, can be used as a 3-way switch.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Permanent schedule retention. Supercapacitor provides 2 days of real time backup.

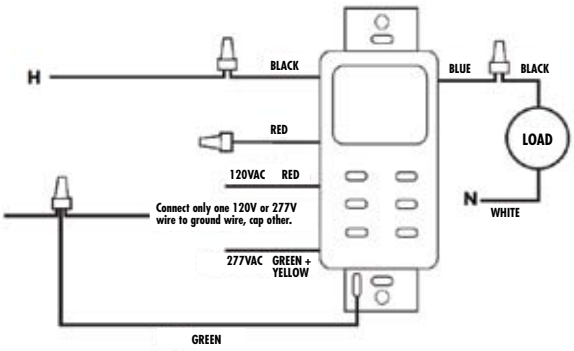
**COMMERCIAL GRADE SPECS:** Control lighting contactors and 277VAC loads. Compatible with CFL lamps.

**FULL SWITCHING:** No minimum load requirement.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | SWITCH TYPE | COLOR |
|---|---|---|---|---|
| SS700Z | 14019 | 120/277 | SPST | White |
| SS700ZA | 14020 | 120/277 | SPST | Light Almond |
| SS721Z | 14027 | 120/277 | SPST | White |
| SS721ZA | 14028 | 120/277 | SPST | Light Almond |

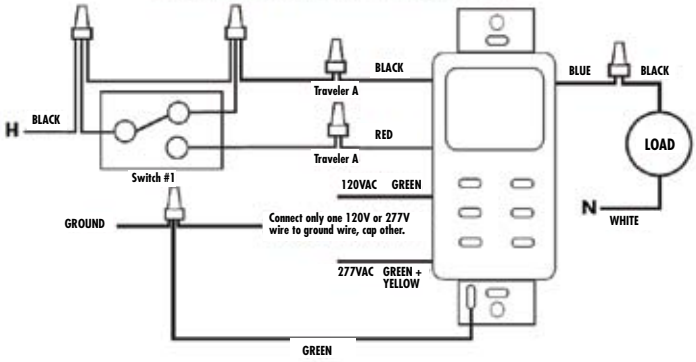
| TYPE | SS700Z SERIES RATING | VOLTAGE (VAC) | SS721Z SERIES RATINGS |
|---|---|---|---|
| Resistive | 16A | 120-277 | 16A |
| Ballast | 10A | 120-277 | 13A |
| LED Driver | 10A | 120-277 | 10A |
| Tungsten | 8A | 120 | 8A |
| Pilot Duty | 360VA | 120 | 720VA |
| Motor | 1/2HP | 120 | 1/2HP |

**SS700Z**

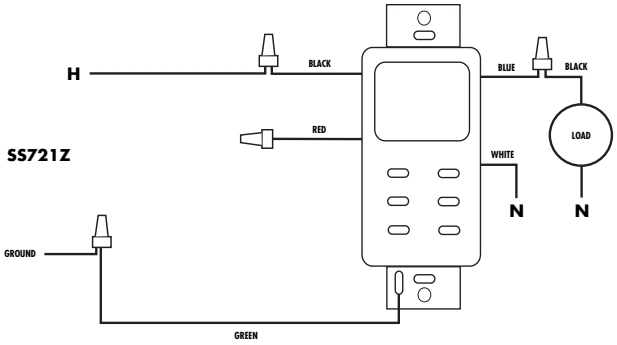



Connect a wire inside the gang-box between Traveler A and Hot.

**SS700Z**

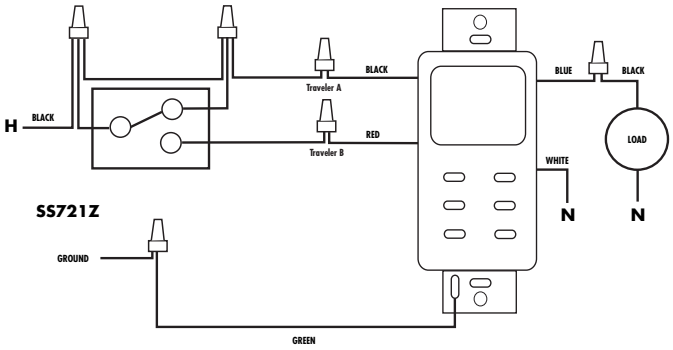



**SS721Z**




Connect a wire inside the gang-box between Traveler A and Hot.

**SS721Z**



# SS720A SERIES
## 7 DAY IN-WALL RESIDENTIAL TIMER



## APPLICATIONS

- Residential Interior lights
- Random for lived-in look
- Small fans and motors
- Appliances

## SPECIFICATIONS

**TIMING ACCURACY:** +/- 1 minute/month

**INPUT VOLTAGE:** 125VAC, 60Hz.

**WIRE SIZE:** #14AWG.

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to +40 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR |
|---|---|---|---|
| SS720A | 14017 | 120 | White |
| SS720AA | 14018 | 120 | Light Almond |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120 | 15A |
| Resistive | 120 | 15A |
| Tungsten | 120 | 15A |
| Motor | 120 | 1HP |
| Electronic Ballast | 120 | 500VA |

## FEATURES

**SCHEDULING:** 7 ON and OFF pairs of set points for individual programs on each day of the week. Minimum setting is 1 minute.

**RANDOM MODE:** Varies ON and OFF times to create "lived in" look when away.

**DAYLIGHT SAVING:** Manual button push for one hour adjustment.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

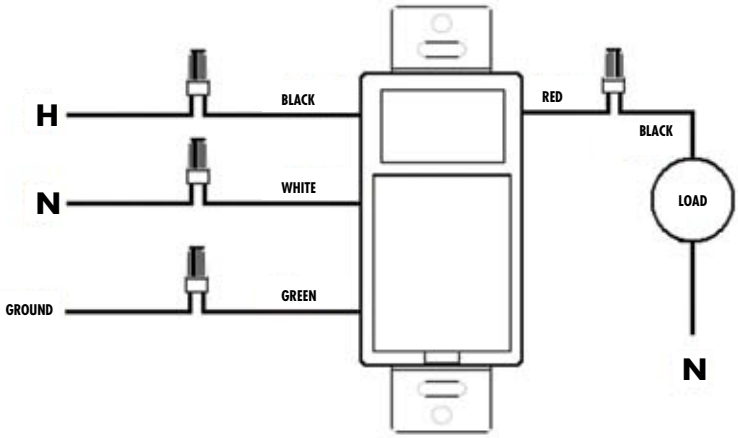
**WIRING:** Requires a neutral.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Rechargeable Ni-Cad battery retains time and schedule.

**WALL PLATE:** Supplied with standard single gang decorator wall plate.

### SS720A SERIES



# SS720Z

## SunSet IN-WALL RESIDENTIAL TIMER

### SUNSET / SUNRISE / 7 DAY



## APPLICATIONS

- Residential Interior lights
- Small fans and motors
- Appliances

## SPECIFICATIONS

**TIMING ACCURACY:** +/- 1 minute/month

**INPUT VOLTAGE:** 120VAC, 60Hz.

**WIRE SIZE:** #14AWG

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to + 40 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR |
|---|---|---|---|
| SS720Z | 14023 | 120 | White |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120 | 15A |
| Resistive | 120 | 15A |
| Tungsten | 120 | 960W |
| Motor | 120 | ½HP |
| Electronic Ballast | 120 | 500VA |

## FEATURES

**SCHEDULING:** 7 ON and OFF pairs of set points for individual programs on each day of the week. Minimum setting is 1 minute.

**SunSet ASTRONOMIC:** Adjusts daily to changes in sunset times. Sunset and sunrise times with five zones: North USA/Southern Canada, Central USA, South USA, Northern Canada/ Alaska, and Hawaii/Puerto Rico.

**RANDOM MODE:** Varies ON and OFF times to create "lived in" look when away.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

**LEAP YEAR:** Automatic Compensation.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

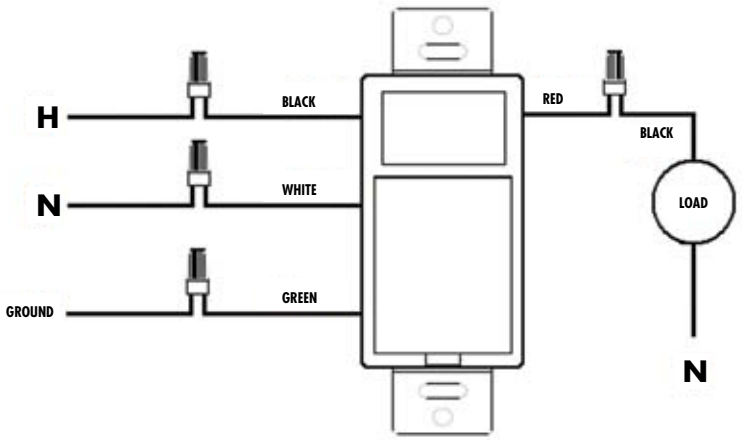
**WIRING:** Requires a neutral.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Rechargeable Ni-Cad battery retains time and schedule.

**WALL PLATE:** Supplied with standard single gang decorator wall plate.

### SS720Z



# SA170 SERIES
## Zip-Set™ IN-WALL RESIDENTIAL TIMER
## SUNSET / TIME OFF



*Wall plate not included

## APPLICATIONS

- Residential Exterior lights
- Small fans and motors
- Appliances

## SPECIFICATIONS

**TIMING ACCURACY:** +/- 1 minute/month

**INPUT VOLTAGE:** 120VAC, 60Hz.

**WIRE SIZE:** #14AWG.

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to +40 °C).

| | CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR |
|---|---|---|---|---|
| NEW! | SA170 | 16528 | 120 | White |

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| Resistive | 120 | 15A |
| Inductive | 120 | 15A |
| Tungsten | 120 | 5A |
| Motor | 120 | 1/2 HP |

## FEATURES

Zip-Set™ factory preset time. Just enter area code and it finds correct time and sunset time.

**SCHEDULING:** One On/Off set point pair is active at a time. Schedule 1, Schedule 2, a combination of 1 & 2, or ZipSet™. Day combinations for 7-5-2 speed programming.

**RANDOM MODE:** Varies ON and OFF times to create "lived in" look when away.

**COUNTDOWN:** Button press turns lights ON and starts a 5 minute countdown to OFF.

**DAYLIGHT SAVING:** Manual button push for one hour adjustment.

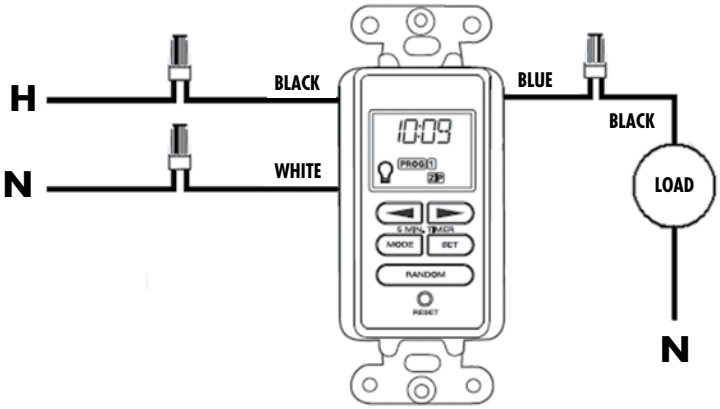
**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.

**WIRING:** Requires a neutral.

**CLOCK FORMAT:** AM/PM.

**POWER OUTAGE BACKUP:** Lithium batteries retain time and schedule.

## SA170 SERIES



# 701A & 711A SERIES
## 24 HOUR IN-WALL TIMER




## APPLICATIONS

- Porch or patio
- Doorway
- Pool
- Outdoor security lighting

## SPECIFICATIONS

**INPUT VOLTAGE:** 125VAC, 60Hz.

**WIRE SIZE:** #14AWG.

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to +40 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR |
|---|---|---|---|
| 701A | 10113 | 125 | White |
| 701AA | 10118 | 125 | Light Almond |
| 711A | 10114 | 125 | White |

| TYPE | VOLTAGE (VAC) | RATING | |
|---|---|---|---|
| | | 701A SERIES | 711A SERIES |
| General Purpose | 125 | 20A | 15A |
| Resistive | 125 | 20A | 15A |
| Tungsten | 125 | 1500W | 1250W |
| Motor | 125 | 1 HP | 1/2 HP |
| Electronic Ballast | 125 | 500VA | - |

## FEATURES

**SCHEDULING:** Minimum ON setting is 30 minutes. Dial has 48 captive trippers.

**BYPASS SWITCH:** Slide switch for ON, OFF, or TIMER (automatic) operation.

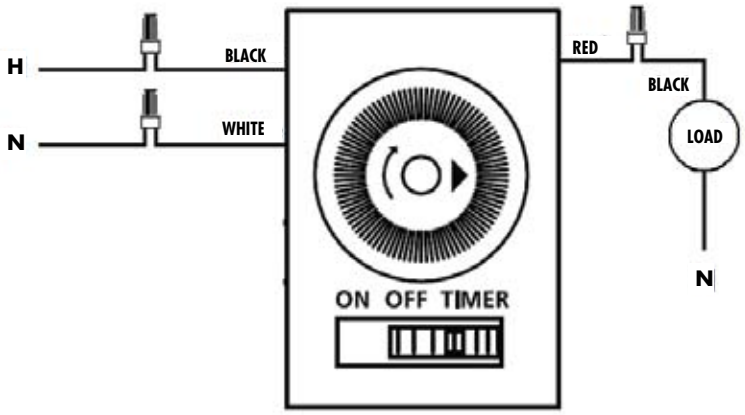
**VACATION MODE:** Set timer OFF with no change of tripper settings.

**WIRING:** Requires a neutral.

**CLOCK FORMAT:** AM/PM marked on dial.

**WALL PLATE:** Supplied with single gang wallplate.

## 701A & 711A



# SS400 SERIES
## DIGITAL AUTO OFF IN-WALL TIMER



responsible energy

CALIFORNIA Title 24

ASHRAE 90.1

LISTED FOR LED

**PROGRAMMABLE!**

SS400 Series
*Wall plate included

## APPLICATIONS

c UL us

- Offices, meeting rooms
- Energy code timed override
- Exhaust fans
- Equipment room and storage spaces

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency

**INPUT VOLTAGE:** SS403/SS423 – 120/230/277VAC 50/60 Hz
SS410 – 24VDC OR 24VAC 50/60 Hz

**WIRE SIZE:** SS403/SS423 – #14AWG input/output - #16AWG 3-way (remote)
SS410 – #18AWG

**OPERATING TEMPERATURE:** 32 °F to +104 °F (0 °C to + 40 °C)

**WARRANTY:** 5 Yrs.

## FEATURES

**WIRING CHOICES:**
SS403 – no neutral for retrofit
SS423 – with neutral for new construction
SS410 – multiple circuits with power packs
– low voltage for class 2 wiring

**ENERGY CODE PRESET:** 2 hour timing for Title 24 and IECC (default). 4 hour timing for ASHRAE 90.1 (with quick dip switch adjustment)

**PROGRAMMABLE:** 5 minutes to 24 hour:
5 minute steps from 5 minutes to 1 hour. 10 minute steps from 1 to 4 hours. 30 minute steps from 4 to 12 hours. 1 hour steps from 12 to 24 hours.

**SCROLL LOCK:** Limits user adjustment to a maximum equal to the preset time.

**FLASH WARNING:** Optional one second flicker turns load off/on 2 minutes before end of time cycle.

**BEEPER WARNING:** Optional beep will sound every 15 seconds during the last 2 minutes of the time cycle.

**TAMPER RESISTANT:** Wall plate locks access to dip switch adjustments.

**MANUAL OPERATION:** Start or stop countdown from timer or remote switch.

**THREE-WAY & MULTI-WAY:** Three-way compatible with existing switch. Multi-way requires momentary switches at the additional locations. Maximum distance 100 feet.

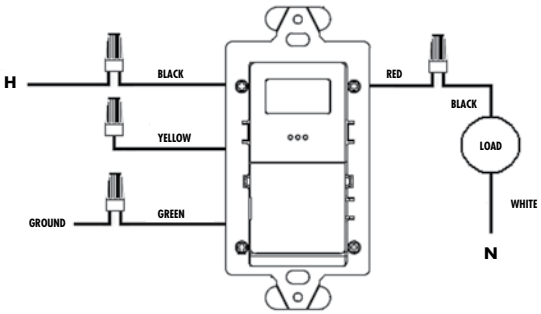
**DISPLAY:** Backlit LCD Display.

**COLOR:** White (single gang decorator wall plate included).

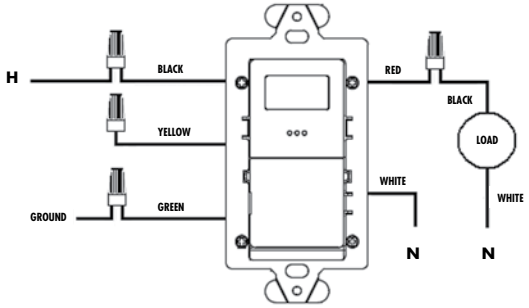
| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60 Hz | SWITCH TYPE | COLOR |
|---|---|---|---|---|
| SS403 | 14029 | 120/230/277 | SPST | White |
| SS423 | 14030 | 120/230/277 | SPST | White |
| SS410 | 14033 | 24VDC or 24VAC | SPDT | White |

| TYPE | VOLTAGE | SS403 RATING | VOLTAGE (VAC) | SS423 RATING |
|---|---|---|---|---|
| Resistive | 120-277VAC | 15A | 120-277 | 15A |
| Ballast | 120-277VAC | 10A | 120-277 | 13A |
| LED Lamp Driver | 120-277VAC | 1200W | 120-277 | 1200W |
| Tungsten | 120VAC | 8A | 120 | 8A |
| Pilot Duty | 120VAC | 360VA | 120-277 | 720VA |
| Motor | 120VAC | 1/4HP | 120-277 | 1HP |
| | | SS410 | | |
| VOLTAGE | RATING | | VOLTAGE (VAC) | RATING |
| 28VDC | .5A Max | | 24 | 1A Max |
| Minimum Load 1ma @ 5V | | | | |

**SS403**

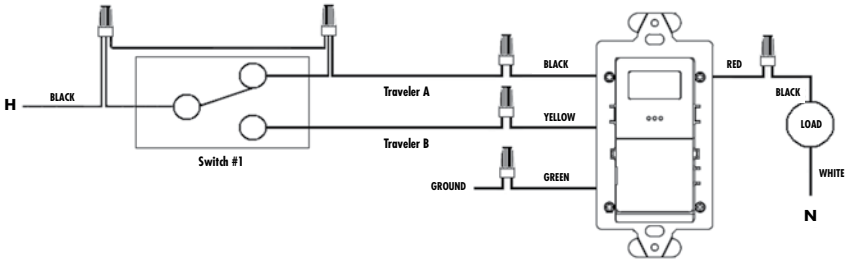



**SS423**



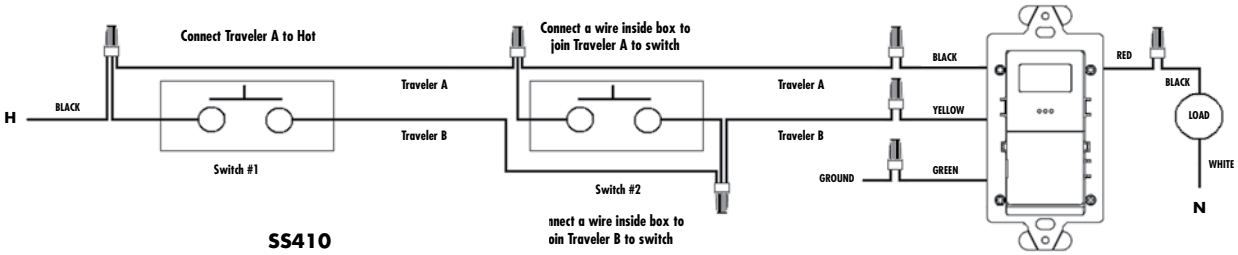

**SS403 Wiring for 3-Way**

Connect a wire inside the gang-box between Traveler A and Hot.

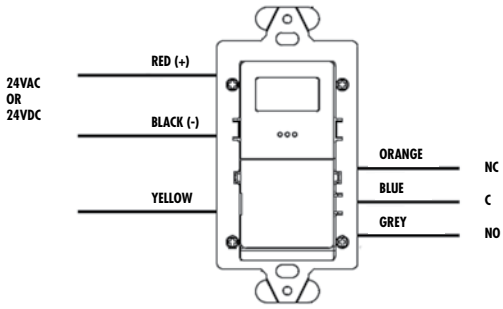



**SS403 Wiring for 4-Way**

Use mometary switches at all additional locations.
TORK #LCS115M

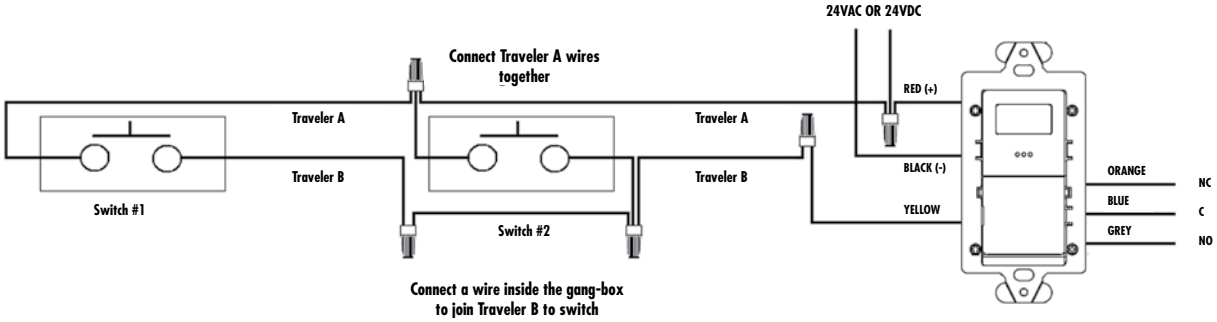



**SS410**




**SS410 Wiring for 4-Way**

Use mometary switches at all additional locations.
TORK #LCS115M




Connect a wire inside the gang-box
to join Traveler B to switch

# SS SERIES
## AUTO OFF
## IN-WALL TIMER



## APPLICATIONS

- Bathroom fans and lights
- Indoor/Outdoor lighting
- Storage areas
- Hospitality areas

## SPECIFICATIONS

**TIMING ACCURACY:**
±5% @ 60° to 80°F.

**INPUT VOLTAGE:**
24/120/208-240/277VAC, 50/60Hz.

**WIRE SIZE:** #18AWG.

**OPERATING TEMPERATURE:**
0 °F to +100 °F (-17 °C to +37 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | WARNING BEFORE TIME OUT | SWITCH TYPE |
|---|---|---|---|---|
| SS20 | 14005 | 24/120/208-240/277 | None | Single pole |
| SS20F | 14008 | 24/120/208-240/277 | *Flicker | Single pole |
| SS13F | 14007 | 24/120/208-240/277 | *Flicker | 3-way |
| SS13B | 14006 | 24/120/208-240/277 | **Beep | 3-way |

*Flicker feature turns load OFF for ½ second, 2 minutes before end of timed cycle and again 1 minute before end of timed cycle.
**Beep feature will begin a ½ second audible warning every 12 seconds during the last 2 minutes of timed cycle.

| TYPE | CONTACT RATINGS | MINIMUM LOAD VOLTS | MINIMUM LOAD WATTS |
|---|---|---|---|
| SS13F & SS13B | .25-4.0A Resistive | 24 | 6 |
| | .25-4.0A Ballast* | 120 | 30 |
| | .25-4.0A Tungsten | 208 | 50 |
| | 1/8 HP @ 120VAC | 240 | 60 |
| | 1/3 HP @ 240VAC | 277 | 70 |
| SS20 & SS20F | .50-7.25A Resistive | 24 | 12 |
| | .50-7.25A Ballast* | 120 | 60 |
| | .50-4.0A Tungsten | 208 | 105 |
| | 1/6 HP @ 120VAC | 240 | 120 |
| | 1/2 HP @ 240VAC | 277 | 150 |

*Not compatible with compact fluorescent lamps (CFL) and electronic fluorescent ballasts.

## FEATURES

**VARIABLE TIMING:** Choose from 1 minute to 18 hours.

**FLASH WARNING:** "F" suffix models with flicker feature turns load off for 1/2 second, 2 minutes before end of timed cycle and again 1 minute before end of timed cycle.

**AUDIBLE WARNING:** "B" suffix model will buzz that every 12 seconds during the last 2 minutes of timed cycle.

**TAMPER RESISITANT:** Time ON interval preset is hidden behind wall plate.

**EASY SET:** Small screw driver adjustment provides quick set-up of timing.

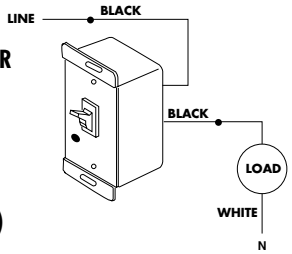
**EASY WIRING:** No neutral needed, great for retrofit.

**3-WAY:** SS13 SERIES replaces standard 3-way switch with no re-wiring.

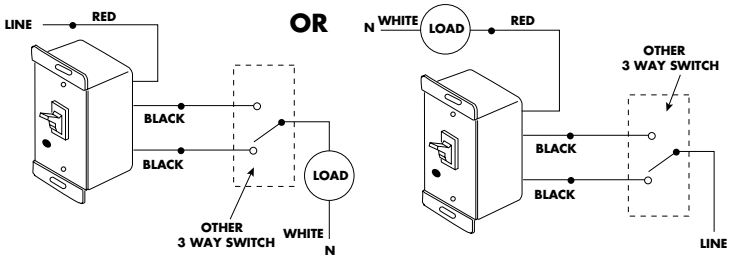
**COLOR:** White.

**SS SERIES**

**TYPICAL WIRING FOR 120 VAC SINGLE POLE**




**TYPICAL WIRING FOR 120 VAC – 3 WAY (Red is common)**



# D SERIES
## ELECTRONIC AUTO OFF IN-WALL TIMER




## APPLICATIONS

- Whole house fans
- Indoor/Outdoor lighting
- Bathroom fans and lights
- Self storage

## SPECIFICATIONS

**TIMING ACCURACY:** Line voltage.

**INPUT VOLTAGE:** 120VAC, 60Hz.

**WIRE SIZE:** #14AWG.

**OPERATING TEMPERATURE:** 32 °F to 122 °F (0 °C to 50 °C).

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | TIME SETTINGS | OUTPUT CONTACTS |
|---|---|---|---|---|
| D212H | 14021 | 120 | Ivory | 2, 4, 8, 12 HOURS |
| D212HA | 14022 | 120 | Light Almond | 2, 4, 8, 12 HOURS |
| D212HW | 14023 | 120 | White | 2, 4, 8, 12 HOURS |
| D1060M | 14025 | 120 | Ivory | 10, 20, 30, 60 MINUTES |
| D1060LA | 14024 | 120 | Light Almond | 10, 20, 30, 60 MINUTES |
| D1060MW | 14025 | 120 | White | 10, 20, 30, 60 MINUTES |

## FEATURES

**VARIABLE TIMING:**
Button push changes time ON setting.

**D1060M:** 10, 20, 30, 60 minute.
**D212H:** 2, 4, 8, 12 hour.

**LED DISPLAY:** Indicator moves to new range as timer counts down.

**TAMPER RESISTANT:** Time ON interval preset.

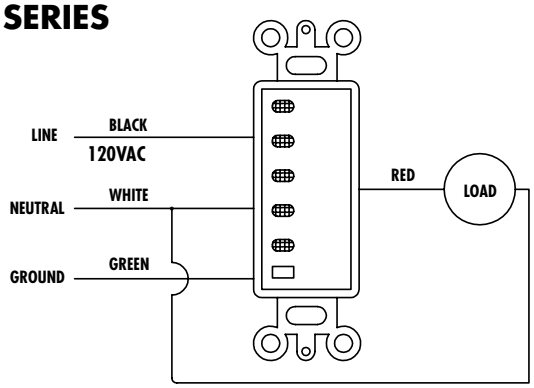
**EASY SET:** No adjustments, just wire and go!

**WIRING:** Requires a neutral.

**THREE COLORS:** Ivory, Light Almond, White.

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| General Purpose | 120 | 15A |
| Resistive | 120 | 1000W |
| Tungsten | 120 | 1000W |
| Motor | 120 | 1/4 HP |
| Ballast | 120 | 1000VA |

### D SERIES



# A SERIES
## SPRINGWOUND AUTO OFF IN-WALL TIMER



*Wallplate not included

**NEW!**
**SPDT, 2 IN 1 CONTACTS**

## APPLICATIONS

- Whole house fans
- Indoor/Outdoor lighting
- Bathroom fans and lights
- Self storage

## SPECIFICATIONS

**INPUT VOLTAGE:**
125/250/277VAC, 50/60Hz.

**TERMINAL SIZE:** #12AWG.

**OPERATING TEMPERATURE:**
32 °F to 122 °F (0 °C to 50 °C).

| CAT. NO. | UPC CODE | HOLD FEATURE | COLOR |
|---|---|---|---|
| **15 MINUTE MAX.** | | | |
| A515MH | 15020 | With Hold | Ivory |
| A515MHW | 15120 | | White |
| A515M | 15013 | No Hold | Ivory |
| A515MW | 15113 | | White |
| A515MA | 15127 | | Light Almond |
| **30 MINUTE MAX.** | | | |
| A530MH | 15021 | With Hold | Ivory |
| A530MHW | 15121 | | White |
| A530M | 15014 | No Hold | Ivory |
| A530MW | 15114 | | White |
| A530MA | 15128 | | Light Almond |
| **60 MINUTE MAX.** | | | |
| A560MH | 15022 | With Hold | Ivory |
| A560MHW | 15122 | | White |
| A560M | 15015 | No Hold | Ivory |
| A560MW | 15115 | | White |
| **2 HOUR MAX.** | | | |
| A502HHW | 15123 | With Hold | White |
| A502H | 15016 | No Hold | Ivory |
| A502HW | 15116 | | White |
| **6 HOUR MAX.** | | | |
| A506HHW | 15125 | With Hold | White |
| A506H | 15018 | No Hold | Ivory |
| A506HW | 15118 | | White |
| **12 HOUR MAX.** | | | |
| A512HH | 15026 | With Hold | Ivory |
| A512HHW | 15126 | | White |
| A512H | 15019 | No Hold | Ivory |
| A512HW | 15119 | | White |

## FEATURES

**VARIABLE TIMING:** Twist knob for time ON setting. Time ON lengths from 15 minutes to 12 hour vary by model.

**HOLD FEATURE:** Some models have position for constant ON.

**EASY SET:** No adjustments. Just wire and go!

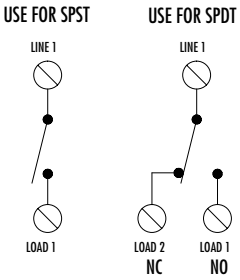
**EASY WIRING:** No neutral required. Great for retrofit! Use as single or in multi-gang box with no de-rating.

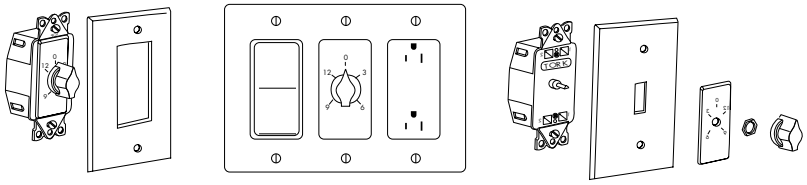
**SWITCH TYPE:** SPDT "2 in 1" contacts wire has SPST also. Can wire as normally on and countdown while off.

**COLOR:** Ivory, Light Almond, White.

**WALL PLATE:** Fits standard or decorator style wall plates, see below (not included).

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| Resistive | 125<br>250<br>277 | 20A<br>10A<br>10A |
| Inductive | 125<br>250<br>277 | 20A<br>10A<br>10A |
| Tungsten | 125 | 7A |
| Motor | 125<br>250 | 1HP<br>2HP |



CAUTION: This timer is not to be used in precision timing applications where inaccurate timing could have dangerous consequences (i.e. sun lamp, sauna, etc.).

# C SERIES
## COMMERCIAL STYLE SPRINGWOUND AUTO OFF IN-WALL TIMER




*Wallplate included

**NEW! SPDT, 2 IN 1 CONTACTS**

## APPLICATIONS

- Ventilating fans
- HVAC
- Whirlpools
- Self storage
- Motors and pumps

## SPECIFICATIONS

**INPUT VOLTAGE:** 125/250/277VAC, 50/60Hz.

**TERMINAL SIZE:** #12AWG.

**OPERATING TEMPERATURE:** 32 °F to 122 °F (0 °C to 50 °C).

| TYPE | VOLTAGE (VAC) | RATING |
|---|---|---|
| Resistive | 125<br>250<br>277 | 20A<br>10A<br>10A |
| Inductive | 125<br>250<br>277 | 20A<br>10A<br>10A |
| Tungsten | 125 | 7A |
| Motor | 125<br>250 | 1HP<br>2HP |

## FEATURES

**VARIABLE TIMING:** Twist knob for time ON setting. Time ON lengths from 15 minutes to 12 hour vary by model.

**HOLD FEATURE:** Some models have position for constant ON.

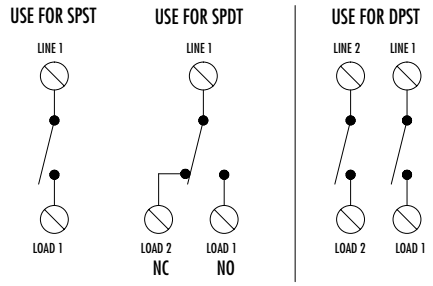
**EASY SET:** No adjustments. Just wire and go!

**EASY WIRING:** No neutral required. Great for retrofit!

**SWITCH TYPE:** SPDT "2 in 1" contacts wire as SPST also, except C460M and C412H are DPST. Can wire normally on and countdown while off.

**COLOR:** Metal-brushed aluminum.

**WALL PLATE:** Includes real metal wall plate with screw mounting, to add extra security for commercial applications.




CAUTION: This timer is not to be used in precision timing applications where inaccurate timing could have dangerous consequences (i.e. sun lamp, sauna, etc.).

| CAT. NO. | UPC CODE | HOLD FEATURE |
|---|---|---|
| **15 MINUTE MAX.** | | |
| C515M | 15501 | No Hold |
| **30 MINUTE MAX.** | | |
| C530M | 15503 | No Hold |
| **60 MINUTE MAX.** | | |
| C560M | 15505 | No Hold |
| C560MH | 15506 | With Hold |
| C460M* | 15011 | No Hold |
| **2 HOUR MAX.** | | |
| C502H | 15507 | No Hold |
| **6 HOUR MAX.** | | |
| C506H | 15511 | No Hold |
| **12 HOUR MAX.** | | |
| C512H | 15513 | No Hold |
| C512HH | 15514 | With Hold |
| C412H* | 15010 | No Hold |

*DPST switch type.


TORK
TIME




# TORK® PLUG-IN TIMERS

# 400B SERIES
## INDOOR PLUG-IN MECHANICAL TIMERS

NEW!



403B



402B



405B

## APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Control lamps, radios, televisions, appliances.
- Give the home a "lived in" look while away.
- Save energy and provide security.

## FEATURES

**REPEAT SCHEDULE:** Daily.

**VARIABLE TIMING:** Multiple ON/OFF times.

**ON/OFF:** Manual ON/TIMER switch.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▶) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| 403B | 16085 | 125VAC 15A 1875W Resistive<br>125VAC 500W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC 1/3 HP Motor | 1 | Polarized | Basic Lighting Timer | 30 minute |
| 402B | 16091 | | 1 | Grounded | Heavy Duty 24 hour Timer | 30 minute |
| 405B | 16094 | 125VAC 15A 1875W Resistive<br>125VAC 500W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC TV-4 | 2 | Grounded | Two Outlet Automatic Timer | 30 minute |

**NOTE**: "▲" = Indicates outlet location.

# SA100 SERIES
## INDOOR PLUG-IN MECHANICAL TIMERS

NEW!



SA011

## APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Control lamps, radios, televisions, appliances.
- Give the home a "lived in" look while away.
- Save energy and provide security.



SA105



SA100



SA110

## FEATURES

**REPEAT SCHEDULE:** Daily.

**VARIABLE TIMING:** Multiple ON/OFF times.

**ON/OFF:** Manual ON/TIMER switch.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▶) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| SA011 | 16501 | 120VAC 15A Resistive, 120VAC 15A Inductive , 120VAC 1800W Tungsten, 120VAC 1/2HP Motor | 1 | Polarized | Lamp Timer with LED night light | Two Pair of On/Off trippers |
| SA100 | 16507 | | 1 | Polarized | Basic Timer with cover to hide dial | 15 Minutes |
| SA105 | 16510 | 120VAC 15A Resistive 120VAC 15A Inductive 120VAC 1800W Tungsten | 1 Timed 1 Untimed | Polarized Polarized | Table Top Timer for easy access with 6 foot cord | 15 Minutes |
| SA110 | 16513 | | 1 Timed 1 Untimed | Grounded Polarized | Heavy Duty Appliance Timer with cover to hide dial | 15 Minutes |

**NOTE**: "▲" = Indicates outlet location.

# SA100 & 400E SERIES
## INDOOR DIGITAL PLUG-IN TIMERS



SA134



SA130

## APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Vary schedules daily.
- Give the home a "lived in" look while away.
- Save energy and provide security.




▲ 460E




▲ 454E




455E

## FEATURES

**SA134 & SA130:**
24 hour programming.
Battery Back-up for power outages.

**460E, 454E & 455E:**
7 day programming.
Random feature for lived in look.
Manual Daylight Savings.
Battery Back-up for power outages.

**SunSet TIMER 457Z:**

- Sunset On with 7 day programmable Off or sunrise Off.
- Random feature for lived in look.
- Automatic Daylight Savings.
- Battery Back-up for power outages.
- Never come home to a dark house.



▲ 457Z SunSet

| | CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▲) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|---|
| | SA134 | 16522 | 120VAC 8.3 amp Resistive 120VAC 600W Tungsten | 1 | Polarized | Easy Set 24 hour daily repeat timer | 2 On/Off Settings |
| | SA130 | 16519 | 120VAC 15A Resistive , 120VAC 15A Inductive, 120VAC 500W Tungsten 120VAC 1/2 HP Motor | 1 Timed 1 Untimed | Polarized | Easy Set Lamp Timer with cover to hide buttons | 2 On/Off settings. 1 setting may be active at a time |
| | 460E | 16097 | 125VAC 15A 1875W Resistive, 125VAC 1000W Tungsten, 125VAC 500VA Electronic Ballast, 1/3 HP Motor | 1 | Polarized | Seven Day Programmable | 20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs |
| | 454E | 16100 | | 1 | Grounded | Seven Day Programmable | |
| | 455E | 16103 | 120VAC 15A 1800W Resistive, 120VAC 960W Tungsten, 120VAC 500VA Electronic Ballast, 1/2 HP | 2 | Grounded | Seven Day Programmable | |
| | 457Z | 16016 | 125VAC 15A General Purpose 125VAC 15A Resistive 125VAC 1000W Tungsten | 2 | Grounded | SunSet™ Timer Dusk to Dawn with automatic daylight savings | |

**NOTE**: "▲" = Indicates outlet location.

# SA200 & SA500 SERIES
## WIRELESS PLUG-IN CONTROLS

NEW!



SA500



SA230

## APPLICATIONS

- Remotely turn ON/OFF items.
- Control lamps, radios, appliances, outdoor lighting.
- Safety: enter and leave rooms in full light.
- Provide a convenient control from your chair.

## FEATURES

**INDOOR REMOTE OUTLET - SA500:**

- Control indoor outlet up to 80′ away.
- Transmitter has 3 pair ON/OFF buttons to allow independent control of 3 receivers.
- Match receiver and outlet with simple dial. No fussy programming.
- Get one for each room. No cross talk.
- Wireless control without moving across room.

**OUTDOOR REMOTE OUTLET - SA230:**

- Control indoor outlet up to 80′ away.
- Matched receiver and outlet. No programming.
- Transmitter has 1 pair ON/OFF button.
- Wireless control from the comfort of inside.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▲) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| SA500 | 16555 | 125VAC 8A Resistive<br>125VAC 625W Tungsten | 1 | Grounded | Indoor Remote Controlled Outlet | Manual On/Off with push button transmitter |
| SA230 | 16564 | 125VAC 8A Resistive<br>125VAC 600W Tungsten | 2 | Grounded | Outdoor Remote Controlled Outlet | Manual On/Off with push button transmitter |

**NOTE**: "▲" = Indicates outlet location.

# 600B & SA200 SERIES
## OUTDOOR PLUG-IN MECHANICAL TIMERS

NEW!



602B



652B

## APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON with light activated timer.



SA205

## FEATURES

**MECHANICAL TIMERS:**
**TIMER REPEAT SCHEDULE:** Daily.
**VARIABLE TIMING:** Multiple ON/OFF times.
**MANUAL SWITCH:** ON or TIMER mode.

**LIGHT ACTIVATED TIMERS:**
**TIMER REPEAT SCHEDULE:** Daily turns on at dusk.
**VARIABLE TIMING:** Dial turn to choose a countdown time to turn Off hours after dusk.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▶) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| 602B | 16106 | 125VAC 15A Resistive<br>125VAC 500W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC 1⁄3 HP Motor | 2 | Grounded | Outdoor Lighting Timer | 30 Minutes |
| SA205* | 16534 | 120VAC 15A Resistive<br>120VAC 15A Inductive<br>120VAC 1800W Tungsten<br>120VAC 1800W Incandescent<br>120VAC 1/2 HP Motor | 1 Timed<br>1 Untimed | Grounded | Landscape Timer | 15 Minutes |
| 652B | 16108 | 125VAC 15A General Purpose<br>125VAC 15A Resistive<br>125VAC 1000W Tungsten<br>125 VAC 500VA Electronic Ballast<br>125VAC 1⁄3 HP, TV-5 | 2 | Grounded | Light Activated Outdoor Lighting Timer | Turns on at Dusk and countdown Off 2, 4, 6 or 8 hours later |

* ETL listed for U.S. and Canada.

**NOTE**: "▲" = Indicates outlet location.

# 600E & SA200 SERIES
## OUTDOOR PLUG-IN DIGITAL TIMERS

NEW!



642E



654E

## APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON with light activated timer.



SA204

## FEATURES

**DIGITAL TIMER:**

- 7 day programming
- Manual Daylight Savings
- Random feature for lived in look
- Battery Back-up for power outages

**LIGHT ACTIVATED TIMERS:**

**TIMER REPEAT SCHEDULE:** Daily turns on at dusk.

**VARIABLE TIMING:** Choose a countdown time to turn Off from 1 to 9 hours after dusk.

**654A USER SELECT MODE:** Start countdown at any time and repeats daily.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▲) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| 642E | 16110 | 125VAC 15A Resistive<br>125VAC 1000W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC 1⁄3 HP Motor | 2 | Grounded | Outdoor Lighting Timer | 30 minutes |
| 654E | 16113 | 125VAC 15A Resistive<br>125VAC 1000W Tungsten<br>125VAC 500VA Electronic Ballast<br>125VAC 1⁄3 HP TV-5 | 2 | Grounded | Light Activated Outdoor Lighting Timer | Turns on at Dusk and countdown off 1 through 9 hours later |
| SA204* | 16561 | 120VAC 8A Resistive<br>120VAC 600W Tungsten | 2 | Grounded | Light Activated Landscape Timer | |

* ETL listed for U.S. and Canada.

**NOTE**: "▲" = Indicates outlet location.

# SA200 SERIES
## OUTDOOR PLUG-IN STAKE TIMERS

NEW!



SA215

## APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Multiple outlets for holiday lighting.

## FEATURES

**REPEAT SCHEDULE:** Daily.

**VARIABLE TIMING:** Multiple ON/OFF times.

**MANUAL SWITCH:** ON or TIMER mode.

**POWER CORD:** 18" length.

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS (▶) | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| SA215 | 16540 | 125V 15A Resistive<br>125V 1250W Tungsten<br>125V 1/2 HP Motor | 6 | Grounded | Holiday Décor Stake Timer | 30 minutes |

**NOTE**: "▲" = Indicates outlet location.

# SA200 SERIES
## OUTDOOR Zip-Set™ DIGITAL PLUG-IN TIMERS

NEW!



## APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON everyday.

## FEATURES

- Fast programming with ZIP-SET™ One-Step™ set-up. Just enter your area code.
- ZIP-SET™ turns lights ON at sunset & OFF at countdown or preset time.
- 7-5-2 settings for full week, weekdays, and weekends.
- Option to set with one of three on/off programs.
- Manual Daylight Savings.
- Random feature for lived in look.
- Battery Back-up for power outages.
- Power Cord: SA210 18" & SA220 24".

| CAT. NO. | UPC CODE | RATINGS | NO. OF OUTLETS | TYPE OF PLUG | DESCRIPTION | VARIABLE TIMING SEGMENTS |
|---|---|---|---|---|---|---|
| SA210 | 16537 | 120VAC 15A Resistive<br>120VAC 15A Inductive<br>120VAC 1000W Tungsten<br>120VAC 1/4 HP Motor | 2 Timed<br>1 Untimed | Grounded | Zip-Set™ Outdoor Living Wall Mount Timer | Sunset On and countdown hours to Off or same fixed time off each day |
| SA220 | 16534 | 120VAC 15A Resistive<br>120VAC 15A Inductive<br>120VAC 600W Tungsten<br>120VAC 1/4 HP Motor | 6 Timed<br>1 Untimed | Grounded | Zip-Set™ Outdoor Lighting Stake Timer | Sunset On and countdown hours to Off or same fixed time off each day |






# TORK*ALERT*™ SIGNALING DEVICES

# MECHANICAL STROBE HORNS



TA880-N5

TA5508H-G1

## APPLICATIONS

- High performance for industrial signaling applications. Offers high sound output, low current draw and dependable operation. Strobes use xenon flashtube, ideal for maximum efficiency and reliability.

## FEATURES

**ALARM:** Penetrating mechanical sound.

**WIRING:** Low current draw. Horn may be wired separately

**MOUNTING:** 4" square surface mounting.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | INPUT CURRENT (AMPS) | dB @10 FEET | CANDELA |
|---|---|---|---|---|---|
| TA880-N5 | 96015 | 120VAC | 0.115 | 96 | 15 |
| TA5508H-G1 | 96071 | 24VDC | .059 | strobe only | 15/75 |

**NOTE:** TA880-N5 For outdoor use, unit must be mounted in a TA-WBBF outdoor backbox. See page 550 for ordering. TA5508H-G1 for indoor mounting only.

# MECHANICAL HORNS



## APPLICATIONS

- Loud tone with typical decibel output of 87dB at 10 feet. Low frequency resonation for strong penetration of noisy areas like boiler rooms, water pumping stations, elevators and air compressor rooms.

## FEATURES

**INPUT VOLTAGE:** Wide input voltage ratings for compatibility with unregulated power supplies.

**WIRING:** Screw terminals for convenient IN/OUT wiring. Low current draw for minimizing power supply and wiring cost.

**HOUSING:** Steel, painted Dawn Mist. Resonant grill design for high sound output.

**MOUNTING:** To indoor box TA-BBSF or outdoor box TA-WBBF, see accessories page 576.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | INPUT CURRENT (AMPS) |
|---|---|---|---|
| SURFACE TYPE | | | |
| TA874-N5 | 96023 | 120VAC, 60Hz | 0.070 |
| TA874-N5R (Red) | 97613 | 120VAC, 60Hz | 0.070 |
| TA875-G1 | 97687 | 24VDC | 0.035 |
| WITH WEATHERPROOF BACKBOX TA-WBBF UL LISTED FOR OUTDOOR USE | | | |
| TA876-N5 | 96026 | 120VAC, 60Hz | 0.070 |

NOTE: Use TORK signal timers for 24 hour or 7 day scheduling, see page 485.

# MULTI-TONE ELECTRONIC HORNS

## 24VDC &115VAC



TA875-1G1

TA-MTS

## APPLICATIONS

- For indoor and outdoor use. Superior sound penetration for various room conditions. Screw terminals accept #12AWG.

| TA875-1G1 24VDC HORN | | |
|---|---|---|
| ALARM TONE | CURRENT (AMPS) | TYPICAL dB @10 FEET |
| BELL | 0.020 | 91 |
| HI-LO | 0.025 | 96 |
| CHIME | 0.028 | 93 |
| SINGLE STROKE BELL | 0.026 | 93 |
| HORN | 0.023 | 97 |
| 3 BEEPS, PAUSE | 0.023 | 97 |
| SIREN | 0.040 | 95 |
| SLOW WHOOP | 0.040 | 96 |

| TA-MTS 115VAC HORN | | | | |
|---|---|---|---|---|
| ALARM TONE | AMPS @ 120VAC | | TYPICAL dB @10 FEET | |
| | HIGH | STANDARD | HIGH OUTPUT | STANDARD OUTPUT |
| HORN | 0.050 | 0.042 | 85 | 82 |
| BELL | 0.041 | 0.039 | 82 | 75 |
| HORN 2 | 0.050 | 0.040 | 85 | 79 |
| CODE 3 HORN | 0.050 | 0.042 | 82 | 75 |
| CODE 3 TONE | 0.042 | 0.040 | 79 | 75 |
| SLOW WHOOP | 0.050 | 0.042 | 85 | 82 |
| SIREN | 0.045 | 0.041 | 85 | 82 |
| HI-LO | 0.042 | 0.039 | 82 | 79 |

## FEATURES

**OPERATING TEMPERATURE:**
TA-MTS: -31˚F to +150˚F (-35˚C to +66˚C).

**DIMENSIONS AND MOUNTING:**
TA-MTS: 4 1⁄18″H x 4 1/8″W x 3 17/32″D
Can be mounted on celing or wall.
TA875-1G1: 4 3/4″H x 4 3/4″W x 1 3/8″D
1 gang, 2 gang or 4" square backbox.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | DESCRIPTION |
|---|---|---|---|
| TA875-1G1 | 97641 | 20-31VDC | Multi-tone Electric Horn |
| TA-MTS | 97674 | 115 VAC | Multi-tone Electric Horn |

# HEAVY DUTY BELLS

## 4", 6", 10" DIAMETERS
## AC VIBRATING BELLS



## APPLICATIONS

- For indoor or outdoor applications. High sound output, durable and dependable performance. Ideal for schools and hopsitals.

| CAT. NO. | UPC CODE | SHELL SIZE | VOLTAGE | INPUT CURRENT (AMPS) | dB @ 10 FEET | COLOR |
|---|---|---|---|---|---|---|
| TA340-4G5 | 96001 | 4″ | 24VAC | 0.320 | 81-90 | Dawn Mist |
| TA340-4N5 | 96002 | 4″ | 120VAC | 0.065 | 81-90 | Dawn Mist |
| TA340-6G5 | 96003 | 6″ | 24VAC | 0.320 | 81-95 | Dawn Mist |
| TA340-6N5 | 96004 | 6″ | 120VAC | 0.065 | 81-95 | Dawn Mist |
| TA340-10G5 | 96005 | 10″ | 24VAC | 0.320 | 84-98 | Dawn Mist |
| TA434-4N5 | 98005 | 4" | 120VAC | 0.065 | 81-95 | Red |
| TA434-6N5 | 97521 | 6″ | 120VAC | 0.065 | 81-95 | Red |
| TA434-10N5 | 96522 | 10″ | 120VAC | 0.065 | 84-98 | Red |

## FEATURES

**TERMINAL SIZE:** #12 - 22 AWG.

**WIRING:** Screw terminals permit fast IN/OUT field wiring.

**HOUSING:** Steel gong and cast aluminum. See page 577 for dimensional drawings.

**MOUNTING:** To indoor box TA-BBSF or outdoor box TA-WBBF, see accessories page 576.

# LIGHT DUTY AND GENERAL PURPOSE BELLS & BUZZER



TA740

TA725

## APPLICATIONS

- Designed to operate on either bell ringing transformers or batteries. Non-adjustable sound.

| CAT. NO. | UPC CODE | DESCRIPTION | VAC | VDC | AMPS | dB |
|---|---|---|---|---|---|---|
| TA740 | 96228 | 2½" Gong | 8-16 | 3-6 | 1 | 76 @ 10' |
| TA744 | 96230 | 4" Gong | 8-16 | 3-6 | 1 | 78 @ 10' |
| TA725 | 96226 | Buzzer | 8-16 | 3-6 | 1 | 88 @ 3' |

## FEATURES

**ALARM:** Bell ringing, non-adjustable sound.

**DIMENSIONS FOR TA725:**
3" H x 2½" W x 1" D.

**MOUNTING:** Fully enclosed sturdy steel bases and covers. Base and cover snap together, no screws required.

# CHIMES & CHIME KITS



## APPLICATIONS

- Powerful and loud, pleasant sounding push-button chimes. Ideal for homes, apartments and offices.

| CAT. NO. | UPC CODE | DESCRIPTION | DIMENSIONS |
|---|---|---|---|
| TAC212WS | 96064 | 16VAC Chime + Push Button clip for Stucco + 10VA Transformer | 7 3/16"L x 4"W x 2"D |
| TAC212WL | 96054 | 16VAC Chime +1 Illuminated & 1 Non-illuminated Push-button +10VA Transformer | 7 1/4"L x 4 3/4"W x 2 1/2"D |

## FEATURES

**INPUT:** 16V, 10VA, 120VAC.

**ALARM:** Chime.

**MOUNTING:** Fully enclosed sturdy steel bases.

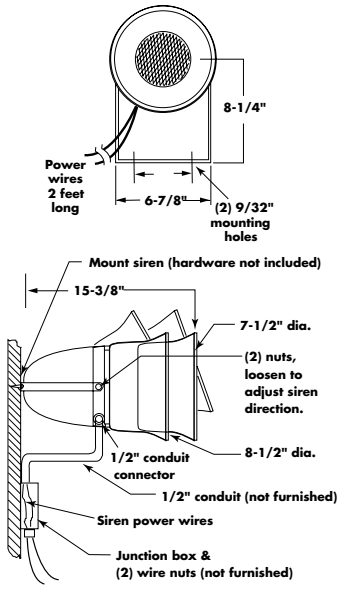
# WEATHERPROOF MOTOR DRIVEN SIREN



## APPLICATIONS

- For industrial and outdoor use. Ideal for evacuation and warning systems.

## DIMENSIONS




## FEATURES

**INPUT VOLTAGE:** 120AC & DC, 60Hz.

**ALARM:** Loud, distinctive tone. Designed to be effective over standard horns or bells.

**HOUSING:** Red enamel paint over heavy gauge aluminum housing. Fully enclosed motor. 180° swivel and adjustable direction.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | dB @10 FEET | AMPS | VA |
|---|---|---|---|---|---|
| TA315-1N5 | 96599 | 120VAC/DC | 117 | 2.5 | 300 |

# MANUAL FIRE ALARM
## PULL-DOWN STATION




## APPLICATIONS

- Designed for indoor use. Ideal for schools, hospitals, industrial plants, warehouses and retail stores. Key is required to close and reset device. Meets requirements, BSA, MEA, CA and UL.

| CAT. NO. | UPC CODE | SWITCH | VOLTS | AMPS |
|---|---|---|---|---|
| TA270A | 96521 | SPST, NO | 30V AC/DC | 1 |

## FEATURES

**ALARM:** Loud, distinctive tone. Designed to be compatible with any control panel to initiate local alarm signals, trip municipal fire alarm box and start fire pumps.

**MOUNTING:** Sturdy metal construction, mounts to a standard single gang electrical box.

# TELEPHONE RELAY




## APPLICATIONS

- This device activates appliances when a telephone ring voltage is detected. For indoor and outdoor use with horns, bells or strobes. Recommended use where ambient noise levels are high. FCC approved.

## FEATURES

**INPUT:** Accepts RJ-11C phone plug.

**WIRING:** Hard wire connections, for analog phone lines.

**MOUNTING:** Weatherproof, indoor and outdoor, includes mounting bracket.

| CAT. NO. | UPC CODE | INPUT TELEPHONE RING VOLTAGE | AC INPUT VOLTAGE | RINGER EQUIVALENCE | PEAK CANDLEPOWER |
|---|---|---|---|---|---|
| TA-B-8332 | 97100 | 39-150V/20-30Hz | 115VAC-5A, 230VAC-2A | Up to 115VDC-500MA | 0.6 |

# WALL CLOCKS
## QUARTZ & ELECTRIC



## APPLICATIONS

- Each model meets United States Government Specifications. All Clocks provide second hand for accurate timing.

## FEATURES

**QUARTZ**
Accurate to one minute per year. Low power consumption for long battery life. Uses AA battery (not supplied).

**ELECTRIC** (UL)
110VAC, 60 Hz synchronous motor. 66 inch line cord and plug. Does not require grounding.

**MOUNTING:** Concealed mounting brackets allow for simple, neat placement on walls.

| QUARTZ CLOCK | | | | |
|---|---|---|---|---|
| CAT. NO. | UPC CODE | TYPE | SIZE | FRAME COLOR |
| TA1886 G | 96156 | QUARTZ | 8″ | Grey |
| TA1886 B | 96155 | QUARTZ | 8″ | Brown |
| TA1887 G | 96159 | QUARTZ | 12″ | Grey |
| TA1887 B | 96157 | QUARTZ | 12″ | Brown |
| TA1887 BK | 96158 | QUARTZ | 12″ | Black |

| ELECTRIC CLOCK | | | | |
|---|---|---|---|---|
| CAT. NO. | UPC CODE | TYPE | SIZE | FRAME COLOR |
| TA1880 G | 96152 | ELECTRIC | 8″ | Grey |
| TA1880 B | 96151 | ELECTRIC | 8″ | Brown |
| TA1882 G | 96154 | ELECTRIC | 12″ | Grey |
| TA1882 B | 96153 | ELECTRIC | 12″ | Brown |

# ELECTRIC DOOR OPENERS
## REMOTE CONTROL & CONTACT DEVICES

## APPLICATIONS

- For unlocking or locking metal or wooden doors using low voltage wiring. For AC, use TA591 or TA592 transformer.

## MAGNETIC SWITCH CONTACTS

For activating a variety of signals, ideal for limiting space applications. Self-insulating and can be mounted in any direction. All units include companion magnet. Dimensions: 2 3/16"L x 1/2"W x 1/2"D.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS MAX. |
|---|---|---|---|---|---|
|  | TA60 | 96975 | Circuit closed with magnet engaged | | |
| | TA61 | 96976 | Make & break NO and NC | 24VAC 12VDC | .5 |
| | TA62 | 96977 | Circuit open with magnet engaged | | |
| | TA67W | 96979 | Terminal Cover | | |

## DOOR/WINDOW CONTACTS, ROLLING BALL TYPE

Signals automatically with the opening and closing of doors, windows and transoms. Operates from pressure in any direction. Non-tilt, non-jamming design. Fits 3/4" hole; no need to mortise.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS MAX. |
|---|---|---|---|---|---|
|  | TA44 | 96995 | Normally closed Push to open | | |
| | TA45 | 96996 | Normally open Push to close | 12-24V AC/DC | 2 |
| | TA46 | 96997 | Momentary contact Push to make & break | | |

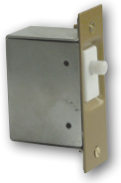
## MORTISE TYPE REMOTE OPENER

Reversible for right or left hand door. Use with mortise entrance locks having a latch bolt with up to 1/2" width and throw. 6" wire leads. Dimensional drawings available.

| DEVICE | CAT. NO. | UPC CODE | VOLTS | AMPS |
|---|---|---|---|---|
|  | TA09 | 96960 | 8-16VAC 3-6VDC | .95-1.75 1.25-1.80 |
|  | TA154 | 96962 | 16VAC 3-6VDC | .95-1.75 1.25-1.80 |

## ELECTRIC DOOR SWITCH

For turning lights/signals on or off when doors are opened or closed. Ideal for closets, dark rooms, storage areas of walk-in refrigeration. Rust resistant steel case with 4 knockouts, antique brass plate. Box dimensions: 1 1/4"W x 3 7/8"H x 2"D. Plate dimensions: 1 1/4"W x 4".

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS MAX. |
|---|---|---|---|---|---|
|  | TA502 | 96964 | Light ON when door is open | 125VAC 250VAC | 6 3 |

## RIM TYPE REMOTE OPENER

Reversible for right or left hand door. Standard surface type used with lock latches with up to 5/8" width and throw. 6" wire leads. Dimensional drawings available.

| DEVICE | CAT. NO. | UPC CODE | VOLTS |
|---|---|---|---|
|  | TA152 | 96961 | 8-16VAC, 3-6VDC |

## DOOR TRIP SWITCH

Signals automatically as door is openend. Commonly used on store doors to announce entrance of customers. Mounts on top of door frame. Solid cast brass. Size: 3 x 1 5/8".

| DEVICE | CAT. NO. | UPC CODE | VOLTS | AMPS MAX. |
|---|---|---|---|---|
|  | TA236 | 96963 | 12-24VAC | 2 |

TORK ALERT™

# PUSH-BUTTONS
## ILLUMINATED, NON-ILLUMINATED & WEATHERPROOF



## APPLICATIONS

- For outdoor use to activate low voltage bells, buzzers, horns or any other audible signal. Ideal for factory doors, receiving departments, small office buildings, limited access retail stores and private homes.

## WEATHERPROOF PUSH-BUTTONS / SOLID CAST BRASS

| BUTTON | CAT. NO. | UPC CODE | DESCRIPTION | INPUT VOLTAGE |
|---|---|---|---|---|
|  | TA1786B | 96090 | Without conduit backplate | Momentary Contacts<br>4 amps AC/DC @ 12V<br>4 amps AC, 2 amps DC @ 24V<br>2 amps AC<br>1 amp DC @48V |
| | TA1786CB | 96091 | With conduit backplate | |

## ILLUMINATED PUSH-BUTTONS, UP TO 16VAC

| BUTTON | CAT. NO. | UPC CODE | COLOR | SIZE |
|---|---|---|---|---|
|  | TA603L | 96035 | Gold | 1 3/4" (diameter) |
|  | TA631L | 96089 | White | 2 3/4" x 7/8" |
|  | TA656B | 96039 | Gold | 15/16 x 2 3/4" |
|  | TA215LB | 96031 | Brass | 1 1/4 x 2″ |
|  | TA620L* | 96037 | Chrome | 5/8" (diameter) |
| | TA620LB* | 96038 | Brass | 5/8" (diameter) |

## NON-ILLUMINATED PUSH-BUTTONS, UP TO 24VAC

| BUTTON | CAT. NO. | UPC CODE | COLOR | SIZE |
|---|---|---|---|---|
|  | TA600 | 96041 | Polished Brass | 2 1/4" (diameter) |
| | TA603 | 96044 | Polished Brass | 1 3/4" (diameter) |
|  | TA631 | 96088 | White | 2 3/4" x 7/8" |
| | TA635 | 96047 | Ivory, black bar | 2 3/4" x 7/8" |
| | TA666BK | 96048 | Black, ivory bar | 2 3/4" X 2 3/4" |
|  | TA602 | 96043 | Polished Brass | 13/8" x 5 1/4" |
|  | TA601 | 96042 | Sprayed Brass | 2 x 2 9/16" |
|  | TA620* | 96045 | Chrome | 5/8" (diameter) |
| | TA620B* | 96046 | Brass | 5/8" (diameter) |

*Stainless steel plate to fit TA620 models: Order TA 147-1

# WARNING LIGHTS
## INDUSTRIAL UNITS

| LETTER | INDICATES COLOR |
|---|---|
| R | Red |
| A | Amber |
| C | Clear |
| B | Blue |

## APPLICATIONS

- 1/2" conduit mounting. Full selection of dome colors, see chart at right. For outdoor use. All units must be mounted vertically with base at bottom.

### TA47N5 / TA47R5 – ALL PURPOSE 360° BEACON

Large parabolic reflector rotates around a 100 wall bulb. Long range beam. Use to indicate equipment malfunctions, security intrusion, etc.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA47RN5 | 96061 | 90 FPM<br>Corrosion resistant/Outdoor use<br>Glass filled polypropylene housing<br>Acrylic dome<br>Tamper resistant dome clamps<br>Nominal current draw<br>9 1/2"H x 8 1/2" diameter | 117VAC | |
| | TA47AN5 | 96161 | | 117VAC | .9 |
| | TA47AR5 | 96162 | | 240VAC, 60Hz | |

### TA52N5 – COMPACT ROTATING BEACON

Light intensifying reflector rotates arounf a low current 25 watt bulb. Bayonet socket for easy lamp replacement. Ideal for restricted or dangerous areas.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA52RN5 | 96063 | 80-90 FPM<br>360˚ rotation<br>Dependable belt & turntable design<br>Acrylic dome<br>Nominal current draw<br>6 1/2"H x 55/8" diameter | 117VAC | .21 |
| | TA52AN5 | 96163 | | | |
| | TA52BN5 | 96263 | | | |

### TA93-2N5 – MIDI-STROBE

Solid state circuitry in a low profile design. No moving parts means less Maintenance!

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA93-2RN5 | 99622 | 70-80 FPM<br>Solid state electronic circuitry<br>High output 3-4 watt, 3.6 joules<br>Vertically mounted flash tube<br>Snap out socket base for<br>360˚ Fresnel dome optics<br>Nominal current draw<br>6 1/2"H x 5 1/8" diameter | 117VAC | .04 |
| | TA93-2AN5 | 97623 | | | |
| | TA93-2CN5 | 96968 | | | |
| | TA93-2BN5 | 97624 | | | |

### TA94N5 – ELECTRONIC STROBE

High intensity strobe tube with inner fluted lens for maximum brilliance. No moving parts makes it immune to shock and vibration. Ideal for security alert.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA94RN5 | 97626 | 70-80 FPM<br>Solid state electronic circuitry High output 3-4 watt, 3.6 joules<br>Acrylic dome<br>Glass filled polypropylene housing<br>Suitable for outdoor use<br>9 1/2"H x 8 1/2" diameter | 117VAC | .04 |
| | TA94AN5 | 97627 | | | |
| | TA94BN5 | 97628 | | | |

# WARNING LIGHTS
## VEHICULAR UNITS



| LETTER | INDICATES COLOR |
|---|---|
| R | Red |
| A | Amber |

## APPLICATIONS

1/2" conduit mounting. Full selection of dome colors, see chart at right. For outdoor use. All units must be mounted vertically with base at bottom.

### TA53E1 – ROTATING BEACON

Single point shock-mounting. Ideal for use on security or service vehicles.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS |
|---|---|---|---|---|
|  | TA53AF1 | 96185 | 90-100 FPM<br>Dependable belt & turntable design<br>25 watt lamp<br>Acrylic Dome<br>Nominal current draw<br>7 1/2"H x 6" diameter | 36VDC |
| | TA53AG1 | 96184 | | 24VDC |

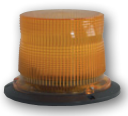
### TA54E1 – PORTABLE, MAGNETIC, ROTATING BEACON

Single point shock-mounting. Ideal for use on security or service vehicles.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS |
|---|---|---|---|---|
|  | TA54AE1 | 96187 | 75 FPM, 12 watt lamp<br>Quiet belt-drive motor.<br>Teardrop design fits under windshields.<br>Includes glare shield, velcro tape<br>4 1/2" H x 7 1/2" diameter | 12VDC |
| | TA54RE1 | 96087 | | |

### TA131DN5 / TA131DU1 – DOUBLE FLASH SUPER STROBE

Ideal for industrial applications requiring extremely high visibility. One model covers all popular mounting methods: ½" pipe, surface, flange, electrical box.

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS | AMPS |
|---|---|---|---|---|---|
|  | TA131DRN5 | 96510 | 60 FPM, 7.5 JPF<br>High intensity 85,000 peak CP<br>Flashtube Rated at 7000-8000 hrs.<br>Durable Lexan® housing<br>5"H x 7 1/4" diameter | 120VAC | .2 |
| | TA131DAN5 | 96610 | | | |
| | TA131DRU1 | 96511 | | 10.5-31.0VDC | |
| | TA131DAU1 | 97611 | | | |

### TA879 – VEHICULAR BACKUP ALARM

Solid state electronic unit. Helps to comply with OSHA and State regulations. Makes distinctive noise, ideal for extreme variations in background noise

| DEVICE | CAT. NO. | UPC CODE | DESCRIPTION | VOLTS |
|---|---|---|---|---|
|  | TA879 | 96102 | 2 sound levels<br>97 or 87 dB +/- dB at 4ft<br>Multi-voltage<br>Water-resistant housing | 12 to 48VDC |

**NOTE:** FPM = Flashes per minute
JPF = Joules per flash

For replacement parts and accessories, see page 576.

# POWER SUPPLY UNITS
## 24 VDC UNITS




TA640

TA606

## APPLICATIONS

- Units provide power to multiple signaling devices, depending on requirements.

## FEATURES

**TA606**
Regulated and filtered 24VDC up to 600mA. Easy-to-use screw terminals, accepts #16-24AWG. No conduit is required for installation.

**TA640**
Dual output unit, each providing 2 Amps fo current. If connected in parallel, will provide up to 4 Amps. Circuit breaker provides input protection.

| CAT. NO. | UPC CODE | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | REGULATION | RIPPLE VOLTAGE |
|---|---|---|---|---|---|---|
| TA606 | 96109 | 117VAC | 24VDC | 600mA | - | - |
| TA640 | 96110 | 115VAC | 24VDC | 4A | +/-5% | 10mVRMS |

# TRANSFORMERS



## APPLICATIONS

- Engineered to ensure long use for bells, buzzers and chimes.

| CAT. NO. | UPC CODE | TYPE | VOLTS-AMPS (VA) | PRIMARY VOLTAGE AC | SECONDARY VOLTAGE AC | Hz |
|---|---|---|---|---|---|---|
| TA590 | 96104 | Bell | 5 | 120 | 10 | 60 |
| TA591 | 96105 | Chime | 10 | 120 | 16 | 60 |
| TA592 | 96106 | Tri-Volt | 10-10-20 | 120 | 8-16-24 | 50/60 |
| TA598 | 96602 | Tri-Volt | 20-30-30 | 120 | 8-16-24 | 60 |
| TA599 | 96108 | Heavy Duty | 40 | 120 | 24 | 60 |
| TA1245Y-50 | 96166 | Heavy Duty | 50VA | 120/208/240 | 24 | 60 |
| TA1245Y-75 | 96167 | Heavy Duty | 75VA | 120/208/240 | 24 | 60 |

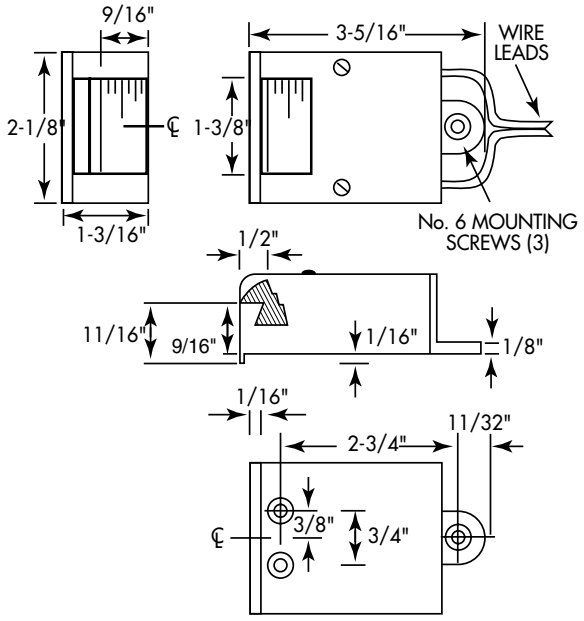
# ACCESSORIES, REPLACEMENT PARTS



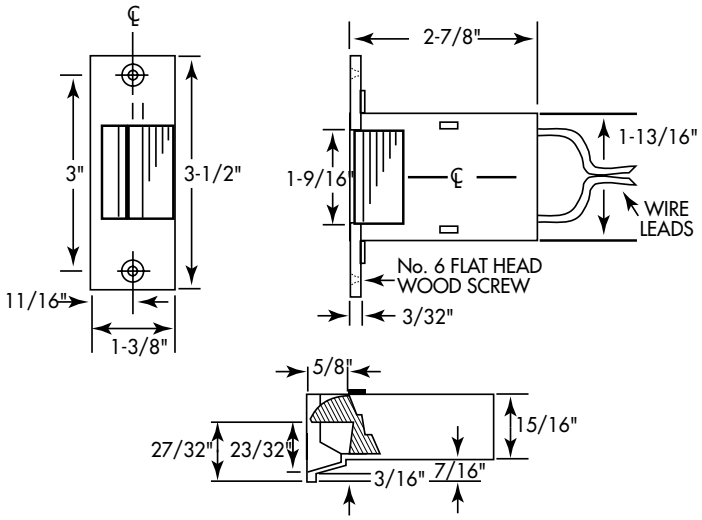
| UNIT | CAT. NO. | UPC CODE | DESCRIPTION |
|---|---|---|---|
| TA93-2 | TA-L6-2 | 96982 | 110VAC Xenon Flash Tube |
| TA52 | TA-L8 | 96134 | 110VAC Bulb |
| TA94 | TA-L10 | 96136 | 110VAC Xenon Flash Tube |
| TA-94 | TA-L10-1 | 96981 | 110VAC Xenon Flash Tube |
| TA502 | TA502SW | 96966 | Replacement switch |
| TA874 Series | TA-BBSF | 97694 | Backbox – 4" painted Dawn Mist 3/4" and 1" KO's |
| TA874 Series | TA-WBBF | 97692 | Weatherproof Backbox – 1/2" KOs 4" painted Dawn Mist |
| TA-BBSF, TA-WBBF | TA-SFPF | 97707 | Semi-Flush plate – Dawn Mist |
| TA-BBSF, TA-WBBF | TA-SFPFR | 97697 | Semi-Flush plate – Red |
| TA47, TA94 | TA-ADR | 96111 | Acrylic Dome – Red |
| TA47, TA94 | TA-ADA | 96311 | Acrylic Dome – Amber |
| TA52, TA53 | TA-D5B | 96419 | Acrylic Dome – Blue |
| TA54 | TA-D6A | 96320 | Dome – Amber |
| TA93, TA94 | TA-D7R | 96121 | Fresnal Dome – Red |
| TA93, TA94 | TA-D7A | 96321 | Fresnal Dome – Amber |
| TA93, TA94 | TA-D7C | 96621 | Fresnal Dome – Clear |
| TA131D | TA-D8R | 96970 | Acrylic Dome – Red |

## REMOTE CONTROL DOOR OPENERS

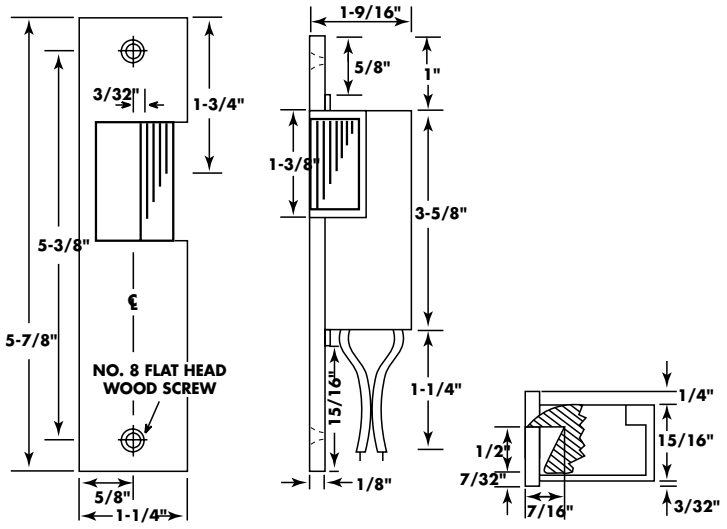
### TA152




### TA154

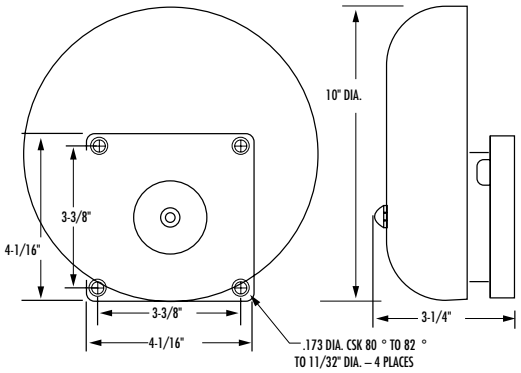



### TA09

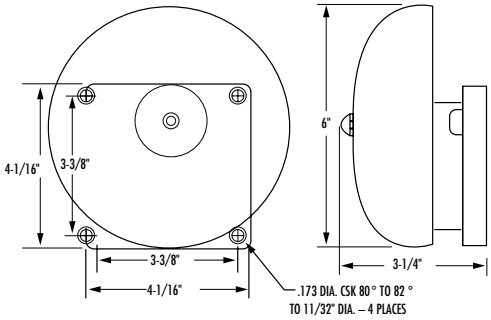


## HEAVY DUTY BELLS

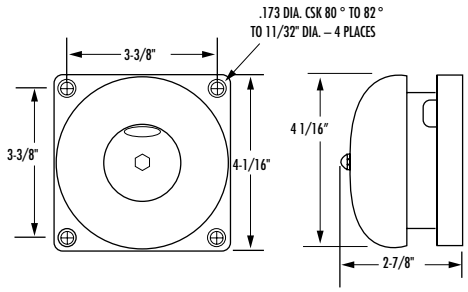
### 10″




### 6″

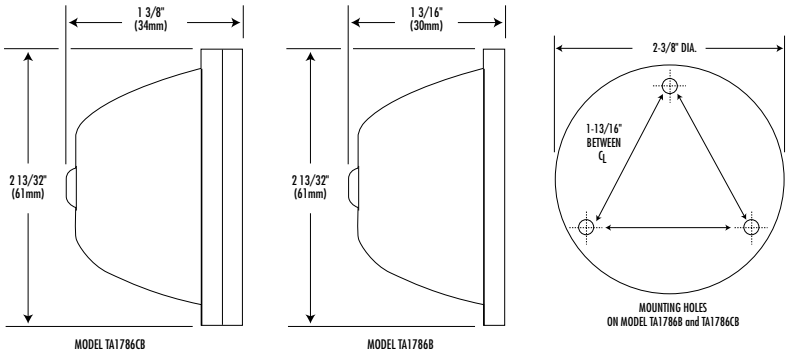



### 4″




## WEATHERPROOF BUTTON

### TA1786B ONLY




TORK
TORK nsi
TPX600
⚠ CAUTION:




# TORK® POOL & SPA CONTROLS

# PP PANEL SERIES
## POOL AND SPA PANELS



PP125R

## APPLICATIONS

- Pumps
- Swimming pools
- Fountains
- Ponds

c UL us
LISTED
POOL/SPA
CONTROL PANEL
3NZM

## FEATURES

**COMBINATION PANEL:** The PP Panel Series provides a flexible platform to create a custom pool and spa control at an off the shelf price. Start with a blank panel and add timers, freeze controls, circuit breakers, switches and outlets for a custom installation.

**PP-100R:** 100 amp load center 120-240V, 5/10 circuit breaker base.

**PP-125R:** 125 amp load center 120-240V, 8/16 circuit breaker base.

**CONTROLS:** Freeze protection or mechanical and digital timers are all available with unique features not found elsewhere in the industry. Find specification details on pages 589-593.

**BREAKERS:** Listed for Cutler Hammer (BR), GE (THQL), Murray/Siemens (MP) and Square D (HOM) (not included).

**REVERSIBLE DOOR:** Easy-Hinge patented removable and reversible door. Change from left to right opening. Solves installation issues in the field.

**WHILE-IN-USE COMPARTMENT:** Inside mounting for two devices with cord exit.

**DEVICE MOUNTING:** Provision for mounting one or two devices in any combination accepts toggle, GFCI, X-10 and UPB type devices in, PP-100R and PP-125R enclosures.

**TRANSFORMER:** Select panels include 120V input: 100 watt with output 12V/13V or 300 watt with output 12V/13V/14V.

**ENCLOSURE:** Metal NEMA 3R with lockable hasp. See pages 589-593 for dimensions.



PP100R



PP-125R-P4



PP-125R-P4-100X

| CAT. NO. | UPC CODE | CONTROL | CONTROL INPUT | ADDITIONAL INFORMATION |
|---|---|---|---|---|
| PP-100R | 94016 | - | - | Panel only. Add controls from page 589-593. |
| PP-125R | 94017 | - | - | Panel only. Add controls from page 589-593. |
| PP-125R-P4 | 53007 | P1104-M | 240VAC | Add another control from page 589-593. |
| PP-125R-P4-100X | 94018 | P1104-M | 240VAC | *Includes 100 watt Low Voltage Transformer |
| PP-125R-P4-300X | 94019 | P1104-M | 240VAC | *Includes 300 watt Low Voltage Transformer |

*For stand alone transformer see TPX series page 588.

# P1100 SERIES
## SWIMMING POOL TIMERS, 24 HOUR ELECTROMECHANICAL CONTROL

**QUICK INSTALL/RELEASE LEVER:** For easy installation and removal when installing into pool panels.

**LOAD INDICATOR LAMP**

**CONVENIENT EXTERNAL ROCKER SWITCH:** 3 position switch: OFF/ON/AUTO. Use switch to turn OFF pump at the end of pool season.

**REAL TIME SWITCH FACE:** Easy to set and check time.

**CAPTIVE TRIPPERS:** 15 minute intervals, no lost trippers.

**HEATER CONTACTS:** FM suffix includes "Fireman Switch" to turn off pool heater 20-30 minutes before timer turns OFF. Contact rates SPST, 15A @120V.

**THERMOSTAT:** PFP models include built in Freeze Protection. No extra wiring. Thermostat turns on load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.

**ACCESSORY CONTACT:** PF models include extra contact to accept PFPT Freeze Protection Accessory. Thermostat turns ON load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.

**TIMER INTERLOCK:** Makes one second timer dependant on operation of another timer.




| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | CONTACTS | RESISTIVE/ INDUCTIVE RATINGS | HP RATING | NOTES |
|---|---|---|---|---|---|---|
| PFP2-M | 94026 | 240 | DPST | 40A | 7.5HP @ 240V | Thermostat only |
| PFP3-M | 94027 | 120/240 w/neutral | DPST | 40A | 3 HP @ 120V 7.5HP @ 240V | Thermostat only |
| P1101-M | 10056 | 120 | DPST | 40A | 3 HP @ 120V | - |
| P1101FM-M | 10060 | 120 | DPST | 40A | 3 HP @ 120V | Fireman Switch |
| PF1101-M | 94020 | 120 | DPST | 40A | 3 HP @ 120V | Accepts PFPT thermostat input |
| PF1101FM-M | 94024 | 120 | DPST | 40A | 3 HP @ 120V | Fireman Switch & Accepts PFPT thermostat input |
| PFP1103-M | 94023 | 120/240 w/neutral | DPST | 40A | 3 HP @ 120V 7.5HP @ 240V | Freeze Protection included |
| P1104-M | 10057 | 240 | DPST | 40A | 7.5HP @ 240V | - |
| P1104FM-M | 10061 | 240 | DPST | 40A | 7.5HP @ 240V | Fireman Switch |
| PF1104-M | 94021 | 240 | DPST | 40A | 7.5HP @ 240V | Accepts PFPT thermostat input |
| PF1104FM-M | 94025 | 240 | DPST | 40A | 7.5HP @ 240V | Fireman Switch & Accepts PFPT thermostat input |
| PFPT | 94028 | 120/240 | - | - | - | Thermostat accessory |

*PFPT



**NOTE**: " " = Indicates Freeze Protection.

# PEW1100 SERIES
## SWIMMING POOL TIMERS, 7 DAY DIGITAL CONTROL

**QUICK INSTALL/RELEASE LEVER:** For easy installation and removal when installing into pool panels.

**LOAD INDICATOR LAMP**

**LARGE LCD DISPLAY**

**LARGE "MANUAL" BUTTON:** 3 operating modes available: OFF/ON/AUTO. Using the OFF mode, the pool can be closed down without disrupting the time settings.



**POWER OUTAGE BACKUP:** Battery retains time and schedule.

**7 DAY PROGRAMMING ONE MINUTE INTERVAL:** Allows for the control of various electrical equipment on a 7 day schedule. 15 schedule weekly programs.

**THERMOSTAT:** PFPEW models include built in Freeze Protection. No extra wiring. Thermostat turns on load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.

**ACCESSORY CONTACT:** PFEW models include extra contact to accept PFPT Freeze Protection Accessory. Thermostat turns ON load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.

**TIMER INTERLOCK:** Makes one timer dependant on operation of another timer.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | CONTACTS | RESISTIVE/INDUCTIVE RATINGS | HP RATING | NOTES |
|---|---|---|---|---|---|---|
| PEW101-M | 82432 | 120 | DPST | 40A | 3 HP @ 120 | - |
| PFEW101-M | 94029 | 120 | DPST | 40A | 3 HP @ 120 | Accepts PFPT thermostat input |
| PFPEW1102-M | 94031 | 240 | DPST | 40A | 7.5HP @ 240V | Freeze protection included |
| PFPEW1103-M | 94032 | 120/240 w/neutral | DPST | 40A | 3 HP @ 120V 7.5HP @ 240V | Freeze protection included |
| PEW104-M | 82442 | 240 | DPST | 40A | 7.5HP @ 240V | - |
| PFEW104-M | 94030 | 240 | DPST | 40A | 7.5HP @ 240V | Accepts PFPT thermostat input |

**NOTE**: " " = Indicates Freeze Protection.

# 1100 SERIES
## SAME ON/OFF TIMES EACH DAY
## SWIMMING POOL TIME SWITCHES



## APPLICATIONS

- Pool pumps
- Heaters
- Lighting

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 208-277VAC, 60Hz (varies by model).

**TIMING ACCURACY:** Line frequency.

**TERMINAL RANGE:** #8 - #14AWG.

**OPERATING TEMPERATURE:** -40 °F to 165 °F (-40 °C to +74 °C).

**POWER CONSUMPTION:** 3 watt max.

**ENCLOSURE:** Lockable hasp. Type varies by model. See pages 589-593 for dimensions and additional enclosure information.

## FEATURES

**SCHEDULING:** Minimum ON setting is 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.

**MANUAL OVERRIDE:** Until the next regularly scheduled ON or OFF automatic operation then resumes.

| TYPE | VOLTAGE | CONTACT RATING |
|---|---|---|
| General Purpose | 120-277VAC | 40A |
| Resistive | 120-277VAC | 40A |
| Tungsten | 120VAC | 40A |
| Ballast | 120-277VAC | 20A |
| LED Driver* | 120-277VAC | 20A |
| Motor | 120VAC<br>240VAC | 2HP<br>5HP |

277VAC Single Phase

*UL only or & cULus on B suffix units.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE |
|---|---|---|---|---|
| 1101B* | 10064 | 120 | SPST | Metal Indoor NEMA 1 |
| 1101BM-IAP* | 10073 | 120 | SPST | Mechanism and mounting plate |
| 1104B* | 10067 | 208-277 | DPST | Metal Indoor NEMA 1 |
| 1104B-P* | 10070 | 208-277 | DPST | Polycarbonate Indoor/Outdoor NEMA 3R |
| 1104B-O* | 10075 | 208-277 | DPST | Metal Indoor/Outdoor NEMA 3 |
| 1104BM-IAP* | 10074 | 240 | DPST | Mechanism and mounting plate |
| 1101FM-N | 10043 | 120 | SPST | Noryl® Indoor/Outdoor NEMA 3R with fireman switch |
| 1104FM-N | 10044 | 208-277 | DPST | Noryl® Indoor/Outdoor NEMA 3R with fireman switch |
| 1101FM-M | 10043 | 120 | SPST | Mechanism with fireman switch |
| 1104FM-M | 10044 | 208-277 | DPST | Mechanism with fireman switch |
| 1101D | 10028 | 120 | Two 1101 SPST each | Metal Indoor/Outdoor NEMA 3R |
| 1104D | 10029 | 208-277 | Two 1104 DPST each | Metal Indoor/Outdoor NEMA 3R |
| 1104DF | 10032 | 208-277 | One 1104 One 1104FM | Metal Indoor/Outdoor NEMA 3R |
| Replacement Trippers | | Order #P47 for a pair of ON/OFF trippers<br>Order #PF48 for a pair of ON/OFF trippers for 1100FM series | | |
| Replacement Motor | | #101 (120V) & #201 (208-277V) | | |

* B suffix units cULus.

# POOL & SPA JUNCTION BOXES



JPB75175

## APPLICATIONS

- For installation of underwater pool lights or low voltage connections

## FEATURES

- Durable PVC molded case
- INTERIOR & EXTERIOR bonding
- Flexibility for conduit sizing
- Built-in strain relief cord clamps
- Line or low voltage wiring
- Complete compliance with UL Standard 1241

| CAT. NO. | UPC CODE | DESCRIPTIONS | CONDUIT HUBS |
|---|---|---|---|
| JBP75175 | 95457 | Two Light Junction Box | 3/4" / 1/2" / 1" |
| JBP57510 | 95485 | Four Light Junction Box | 1/2" / 3/4" / 3/4" / 1" / 1" |

# TIMER MECHANISMS



## APPLICATIONS

- Replacement timer for pool mechanism
- OEM panel mount timer

## FEATURES

**SCHEDULING:** Minimum ON setting is 15 minutes with minimum OFF setting at 15 minutes. Dial has 96 captive tabs.

**EASY-SET:** Real time clock face and day/night markings for setting trippers.

**BYPASS SWITCH:** Sets timer to permanent ON, OFF or timer operation.

| CAT. NO. | UPC CODE | INPUT VOLTAGE (VAC) 60 Hz | OUTPUT CONTACTS |
|---|---|---|---|
| 75151 | 94062 | 125 | SPDT |
| 75152 | 94063 | 240 | SPDT |

| LOAD TYPE | RATINGS 75151 VOLTAGE (VAC) | RATINGS 75152 VOLTAGE (VAC) |
|---|---|---|
| General Purpose | 125, 15A | 240, 15A |
| Resistive | - | 240, 15A |
| Motor | - | 240, 3/4 HP |

## SPECIFICATIONS

**INPUT VOLTAGE:** 120 or 240VAC, 60Hz (varies by model).

**TIMING ACCURACY:** Line frequency.

**TERMINAL:** Male 1/4" spade connection

**OPERATING TEMPERATURE:** -40 °F to +158 °F (-40 °C to +70 °C).

**POWER CONSUMPTION:** 5mA max.

**SIZE:** 60 x 60 x 35mm

**MOUNTING:** 4 mounting holes 54mm square

# DPC201 SERIES
## DIGITAL TWO-SPEED PUMP TIMER



## APPLICATIONS

- Swimming pools with two-speed pump motors

## SPECIFICATIONS

**TIMING ACCURACY:** Line Frequency.

**INPUT VOLTAGE:** 120-277VAC, 50/60Hz (automatic detection).

**TERMINAL RANGE:** #8 - #16AWG.

**OPERATING TEMPERATURE:** -40 °F to +149 °F (-40 °C to +65 °C).

**POWER CONSUMPTION:** 6VA max.

**ENCLOSURE:** Indoor/Outdoor NEMA 3 Metal with locking hasp. See pages 589-593 for dimensions and additional enclosure information.

## FEATURES

**PUMP PROTECTION:** Unit always starts on HIGH with 5 minute countdown before switching to low.

**SCHEDULING:** Up to 3 HIGH/LOW/OFF cycles repeat each day. Minimum setting 5 minute.

**MANUAL OVERRIDE:** Hold OFF until midnight then follows the next regularly scheduled HIGH/LOW/OFF operation.

**DAYLIGHT SAVING:** Automatic adjustment (can be omitted).

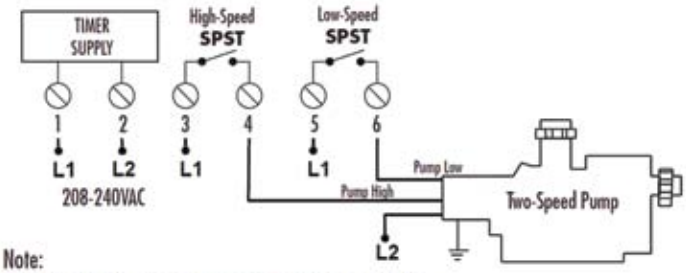
**LEAP YEAR:** Automatic Compensation.

**CLOCK FORMAT:** AM/PM

**POWER OUTAGE BACKUP:** Permanent schedule retention. Super capacitor provides 4 days of real time backup.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50-60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| DPC201 | 82457 | 120-277 | SPST |

| LOAD TYPE | RATINGS | |
|---|---|---|
| | 120VAC | 208-277VAC |
| Motor | 1HP | 1 1/2 HP@208VAC<br>2 HP@240-277VAC |
| Resistive | 40A | 40A |
| Inductive | 40A | 40A |
| Ballast | 30A | 20A |
| Tungsten | 15A | - |
| Pilot Duty | 720VA | 720VA |




Note:
A) Power must be supplied to each terminal marked L1
B) For 120VAC motors use Neutral in place of L2

# TPX SERIES
## DIGITAL TWO-SPEED PUMP TIMER




TPX100

TPX600

## APPLICATIONS

- Swimming pool and spa lighting
- Submersible fixtures
- Landscape lighting
- Fountain lighting

## SPECIFICATIONS

**INPUT VOLTAGE:** 120VAC 60 Hz.

**OUTPUT VOLTAGE:**
TPX100(S): 12 & 13 VAC 100 Watts max.
TPS300(S): 12, 13, & 14 VAC
300 Watts max.
TPX600: 12, 13, & 14 VAC 2 x 300 Watts max.

**COLOR:** Grey or Stainless Steel.

**ENCLOSURE SIZE:** TPX100(S) and TPX300(S) 7.2 H x 5.1 W x 4.2 D inches.
TPX600 10.4 H x 7.3 W x 4.2 D inches.

## FEATURES

**LOW VOLTAGE:** Designed for the safe operation of 12 volt lighting loads including no niche fixtures.

**POOL & SPA:** 100 watt unit for outdoor use only. 300 and 600 watt units for indoor or outdoor use.

**LANDSCAPE LIGHTING:** 100 watt unit for outdoor use only. 300 and 600 watt units for indoor or outdoor use. All units for outdoor use only in Canada.

**SAFE OPERATION:** Full ground shield between primary and secondary.

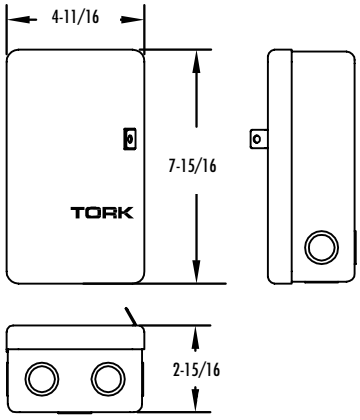
**OVERLOAD PROTECTION:** Automatic resetting internal overload protection.

| CAT. NO. | UPC CODE | INPUT SUPPLY 60Hz | OUTPUT CONTACTS |
|---|---|---|---|
| TPX100 | 94052 | 120VAC 1 AMP Max. | Painted Steel |
| TPX100S | 94053 | 120VAC 1 AMP Max. | Stainless Steel |
| TPX300 | 94054 | 120VAC 3 AMP Max. | Painted Steel |
| TPX300S | 94055 | 120VAC 3 AMP Max. | Stainless Steel |
| TPX600 | 94056 | 120VAC 2 x 3 AMP Max. | Painted Steel |

# ENCLOSURES

## Standard For Models — Metal Indoor NEMA 1 Enclosure #68229

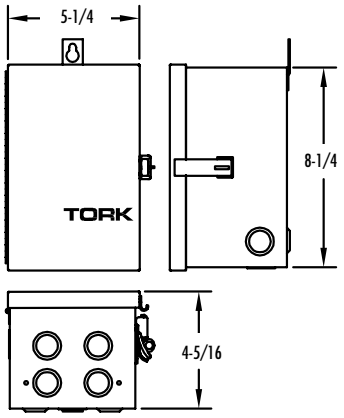
| | |
|---|---|
| 1101B | 7122 |
| 1102B | 8001 |
| 1103B | 8004 |
| 1104B | 8061 |
| 1101FM | 8121 |
| 1104FM | 8301 |
| 7100 | 8602 |
| 7102 | TU40-Y |
| 7200 | EW101B-Y |
| 7202 | EW103B-Y |
| 1101-7 | EW201-Y |
| WH2B | EW120B-Y |
| 7120 | |




## Standard For Models — METAL Indoor/Outdoor NEMA 3 Model 9000A – Suffix "O"

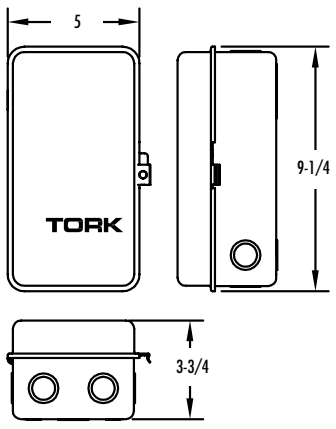
7300, L, Z, ZL
7302, L, Z, ZL
8007U-O
8001-O
8001U-O
8007-O
DZS100BP-O
DZS200BP-O
DZM200BP-O
DZS200BP-O
DW200B-O

NEMA 1 enclosures standard for model 5401A



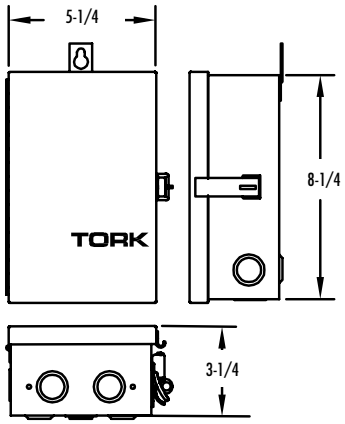

## Standard For Models — Metal Indoor NEMA 1 Enclosure #63100-6

| | |
|---|---|
| 7220 | LDS-A |
| 7200L | LDSH-A |
| 7202L | DG100A-Y |
| 7120L | DGM100A-Y |
| 1847A | DGU100A-Y |
| 8007 | DGUM100A-Y |
| 8007L | LC200 |
| 8007U | 8001U |
| 8008 | |
| 8008L | |



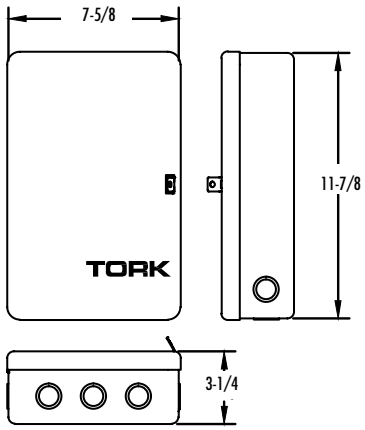

## Standard For Models — METAL Indoor/Outdoor Model 9000B – Suffix "O"

1103B-O
1104B-O
DPC201



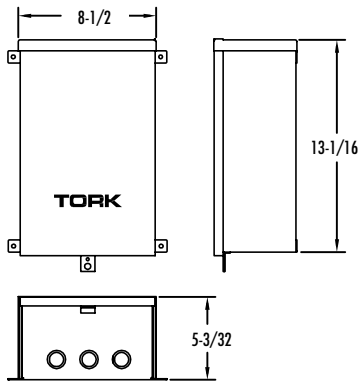

## Standard For Models — Metal Indoor NEMA 1 Enclosure #70100

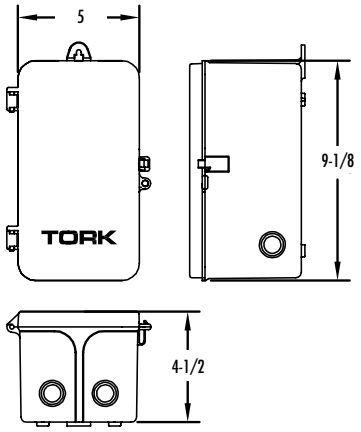
W100
W200
W202
W120
W220
W222
W220L
W222L
1847 AW
W400B
W402B
W400BL

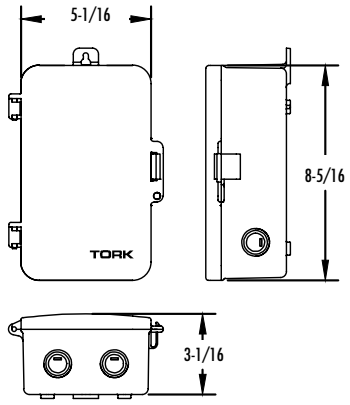


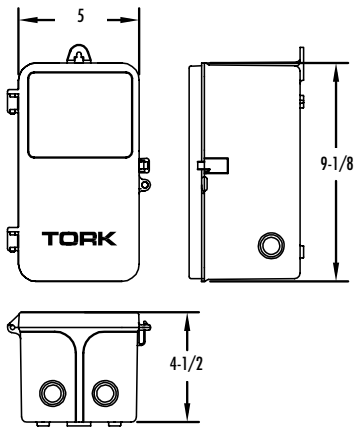

## Standard For Models — Metal Indoor/Outdoor Model #9006

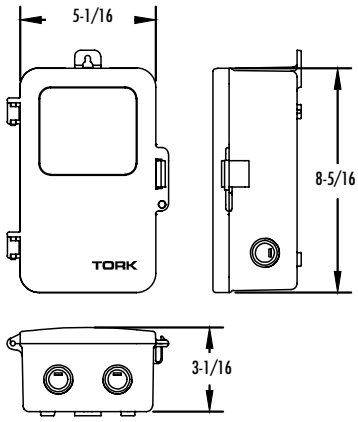
TZ220L-O
TZ300L-O
T920L-O
T930L-O

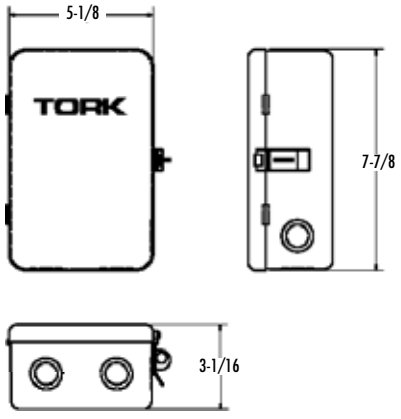


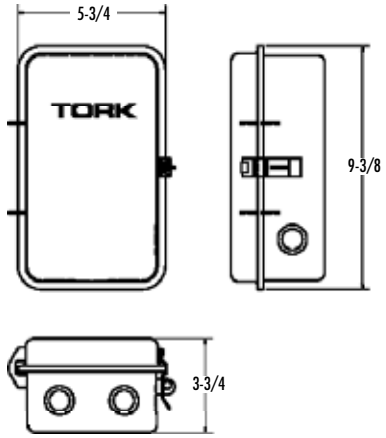
| Standard For Models | NORYL® Indoor/Outdoor NEMA 3R Model #9000N |
|---|---|
| 7200Z, ZL<br>7202Z, ZL<br>7120Z, ZL<br>7122Z, ZL<br>8001-N<br>8001U-N<br>SMC-3D<br>D Series<br>DZM Series<br>DZS Series<br>DTS Series<br>DW Series<br>DWZ Series |  |

| Standard For Models | Polycarbonate Indoor/Outdoor NEMA 3R #74431-1 |
|---|---|
| TU40<br>1101B-P<br>1103B-P<br>1104B-P<br>EH20C<br>DTU40<br>E101PB<br>E Series<br>EW Series<br>EWZ Series |  |

| Standard For Models | NORYL® & LEXAN® Indoor/Outdoor NEMA 3R Model #9000NC |
|---|---|
| 8001-NC<br>DGLC100A-NC<br>DGLC200A-NC |  |

| Standard For Models | Polycarbonate Indoor/Outdoor NEMA 3R With Clear Cover |
|---|---|
| 1101B-PC<br>1103B-PC<br>1104B-PC<br>EW103B-C<br>EW120B-C<br><br>NEMA 1 enclosure standard for models DTWH40 |  |

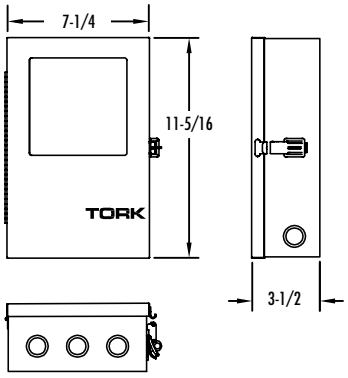
| Standard For Models | Metal Indoor |
|---|---|
| SA300<br>SA306 |  |

| Standard For Models | Metal Indoor/Outdoor |
|---|---|
| SA400 |  |

# ENCLOSURES

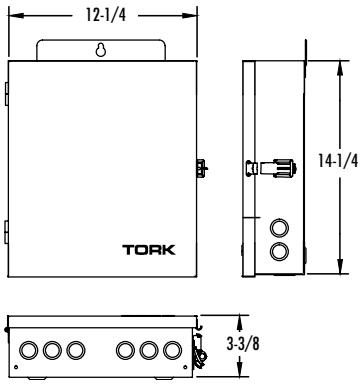
## Standard For Models — ELC74 Enclosure

ELC74



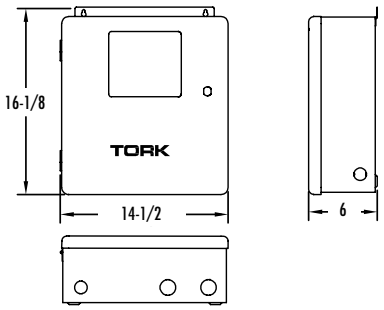

## Standard For Models — DLC400BP

DLC400BP



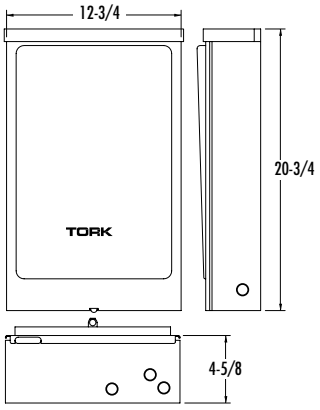

## Standard For Models — ELC78 & ELC712 Enclosure

ELC78
ELC712



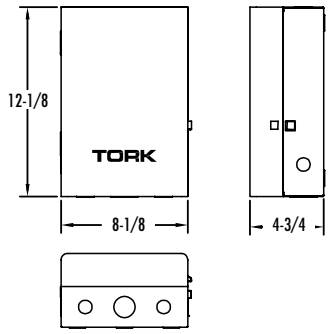

## Standard For Models — 5441A

5441A



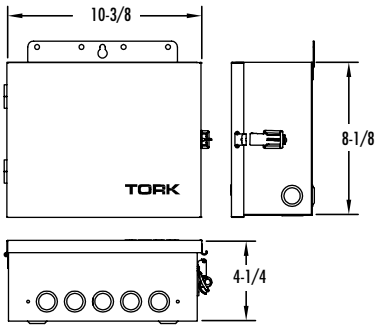

## Standard For Models — Metal Indoor NEMA 1 Enclosure Model #63016-1

TZ220L
TZ300L
W300
W300L
W302L
TW220L
TW300L
T920L
T930L
TW222L
TW302L



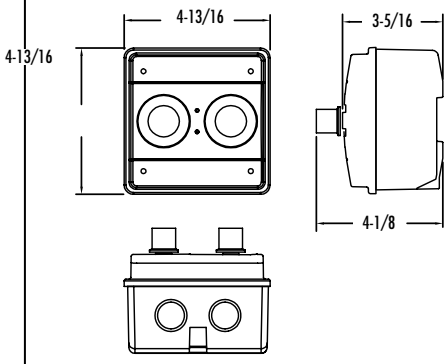

## Standard For Models — Metal Duplex Indoor/Outdoor Model #9004L

1101D
1104D
1104DF



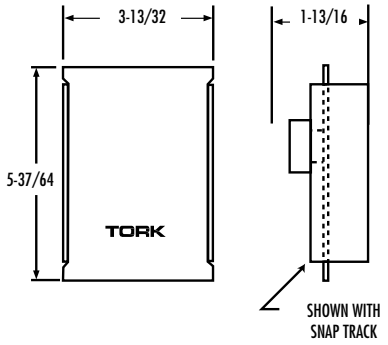
## Standard For Models — EWJT & E500T Series Enclosure

EJWT
E500T
E501T
E502T
ACT30MA



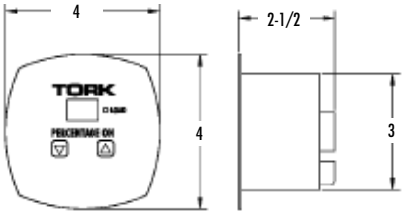

## Standard For Models — LDS Series Mounting with Bracket

LDS

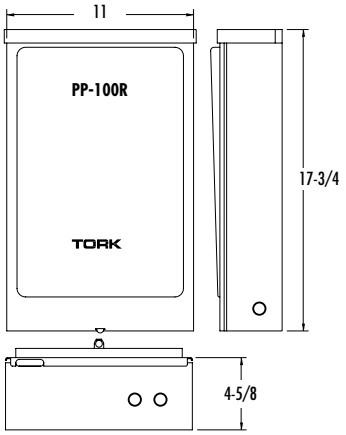


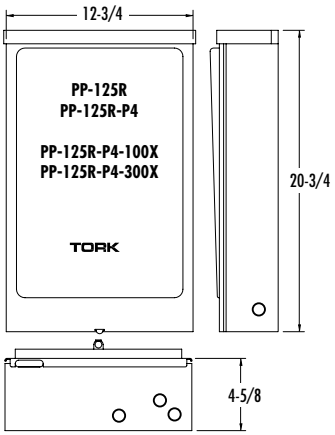

## Standard For Models — PCT15M

PCT15M



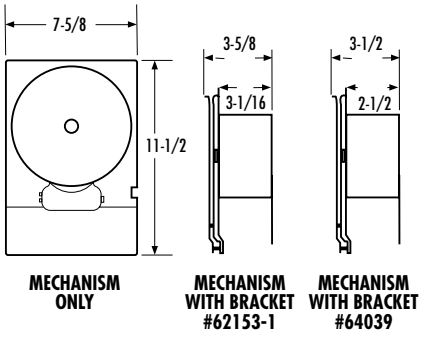

## Pool Panel Series



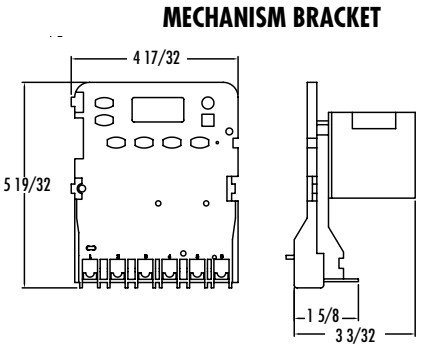
## Option For Models — Mechanism & Mounting Bracket

Use bracket
#64039
W100
W120
W200
W220
W202
W222
Use bracket
#62153-1
W300
W302



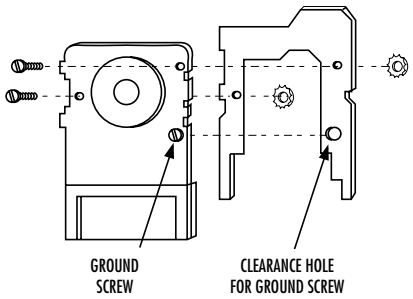

## Standard For Models — W/EW/EWZ Series — Bracket #65447

EWZ101-MB
EWZ103-MB
EWZ120-MB
EWZ201-MB



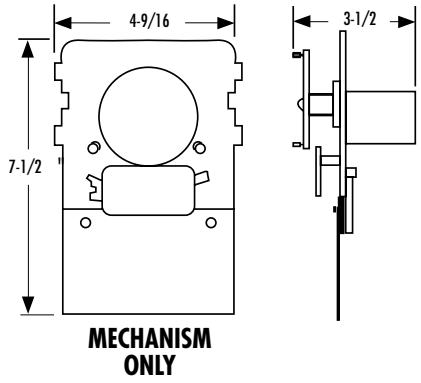

## Standard For Models — IAP Bracket Intermatic® Adapter Plate

1101BM-IAP
1104BM-IAP
Option For Models
1102B
1103B
7100
7102
7200
7202
7120
7122
E Series
EW Series
EWZ Series




## Standard For Models — Mechanism & Mounting Bracket #65447

8001-LC/WB
1101-M
1102-M
1103-M
1104-M
7000 Series
1847A
8121
8601
8301



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# NOTES

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NSi Vendor Number: **662381**
TORK Vendor Number: **786261**

## OTHER PRODUCTS AVAILABLE

NSi can provide many other products for special applications which are not listed in this catalog. If you require an item which you do not find listed, please contact us. We would be pleased to provide a quotation upon receipt of a drawing or a sample.


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