

Fasteners

BLF-14

Spring steel fasteners



B-Line
by **EATON**



Energizing a world that demands more.

Discover today's Eaton.

Powering business worldwide

As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.

EAT•N

Powering Business Worldwide



We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2013 sales of \$22 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.



Eaton's electrical business

Eaton is a global leader with expertise in:

- Power distribution and circuit protection
- Backup power protection
- Solutions for harsh and hazardous environments
- Lighting and security
- Structural solutions and wiring devices
- Control and automation
- Engineering services

Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges. With 100 years of electrical experience behind us, we're energized by the challenge of powering up a world that demands twice as much energy as today. We're anticipating needs, engineering products and creating solutions to energize our markets today and in the future.

We are dedicated to ensuring that reliable, efficient and safe power is available when it's needed most.

Eaton.com

Introduction

The support you rely on.

Improving efficiency during installation with maximum return on investment.

An application is only as strong as its support systems. It's not only important to have reliable power, but determining how that power is distributed – whether in commercial, industrial or data center applications – is critical for efficiency. B-Line continues to be the brand for systems that effectively protect, connect and enclose engineered facility subsystems, keeping your processes running and costs down. From cable tray systems and strut systems to spring steel fastener solutions, the B-Line business is focused on innovative solutions.
















Within this Spring Steel Fastener catalog, you will find several innovative, time-saving solutions that help drive your bottom line. Below are just a few of our most recent innovative additions.

- J-Hook color ID system that help verify cables are running in their correct, designated pathways. For more information, visit www.cooperbline.com/color-id.
- BB8 Series box mounting bracket with integrated cable containment for lower installed costs. For more information, visit www.cooperbline.com/BB816.
- Ruff-IN™ pre-fab systems that can save up to 75% during installation. For more information, visit www.cooperbline.com/ruff-in.
- Rapid Ring™ self-adjusting pre-fab ring that installs in as little as 15 seconds. For more information, visit www.cooperbline.com/rapidring.
- KwikWire™ hanging system and accessories that help save time during installation. For more information, visit www.cooperbline.com/kwikwire.
- To view more, visit www.cooperbline.com/laborsavings.

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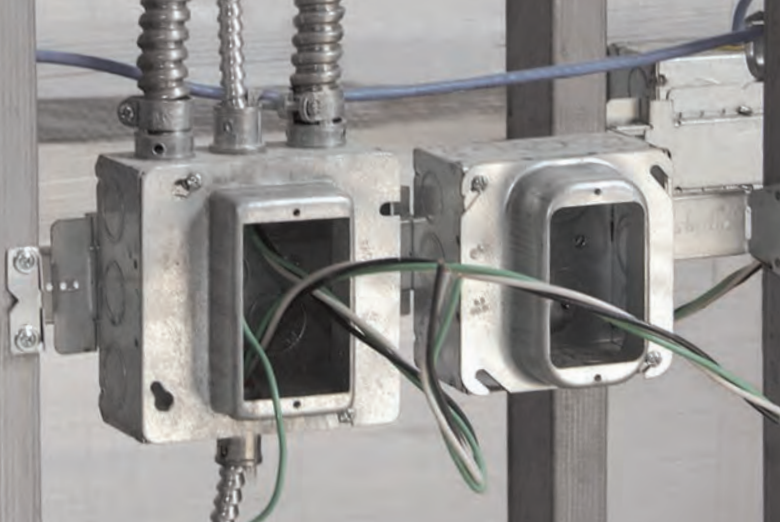
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Website: www.bline.com

Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



**B-Line's Ruff-IN product offering continues to expand with product and assembly options.
For the latest additions, visit www.cooperblinc.com/ruff-in.**



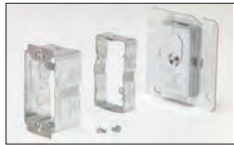
Complete Pre-Fab Offering

Choose the pre-fab offering below that best fits your needs:

Basic Ruff-IN

Offering Contents: Bracket, Box, Mud Ring, Ground Wire

- Ideal solution for a contractor sampling pre-fab for the first time that wants to keep the control of his or her project.
- Published lead times of 3-5 days ARO, and NEXT DAY SHIPPING ON (16) QUICK-SHIP ASSEMBLIES. (See pages 5 & 6)



Ruff-IN with Wiring Devices and/or MC Cable Whips

Offering Contents: Basic Ruff-IN with Wiring Device, Protective Cover Plates, and MC Cable whip with connector(s)

- Assemblies are pre-wired for quick plug and-play installation using Wago™[†] or wire nut connectors.
- Wiring Device's ArrowLink™ connector offers additional labor savings with its plug in feature. (See page 4 for more details)
- Pre-wired Ruff-IN assemblies with devices and a pre-cut MC cable whip attached.
- Whip lengths available in 5-foot increments.
- Includes option to order MC cable whips only.



Total Ruff-IN™

Perfect for a contractor that desires take-off services and B-Line engineering support

- Perfect for a contractor interested in trying pre-fab for the first time that needs the engineering and assembly expertise of B-Line.
- Industry leading, published lead times for Total Ruff-IN quotation responses and order assembly.



[†] Wago™ is a trademark used by WAGO® Kontakttechnik GmbH & Co. KG

Ruff-IN™ Pre-Fab

Distributor Quick Ship Program

Next Day Shipping Available on

12 Ruff-In Assemblies & 4 Rapid Ring™ Assemblies

- No need to request a lead time, order today and we'll ship out of stock tomorrow!
- Ask your B-Line Sales Representative for more information on stock-able Ruff-IN assemblies.

Ruff-IN Quick Ship Pre-Fab Assemblies

| Part # | UPC # | Max. Order Qty. |
|--|-------------|-----------------|
| BBF Series Floor-mount | | |
| BBF18-1104DA | 78205154072 | 50 |
| 18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire | | |
| BBF18-1104D | 78205154065 | 50 |
| 18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, solid ground wire | | |
| BBF18-1124DA | 78205155199 | 25 |
| 18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire | | |
| BBF18-1124D | 78205154176 | 25 |
| 18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, solid ground wire | | |
| Double-Sided Box Support | | |
| BB76-1104DA | 78205155200 | 100 |
| 6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, stranded ground wire | | |
| BB76-1104D | 78205138768 | 25 |
| 6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, solid ground wire | | |
| BB76-1124DA | 78205154049 | 50 |
| 6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, stranded ground wire | | |
| BB76-1124D | 78205138771 | 25 |
| 6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, solid ground wire | | |
| Telescoping Slider Bracket | | |
| BB216TS-1104DA | 78205139289 | 25 |
| 16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire | | |
| BB216TS-1104D | 78205138619 | 25 |
| 16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, solid ground wire | | |
| BB216TS-1124DA | 78205139292 | 25 |
| 16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire | | |
| BB216TS-1124D | 78205138621 | 25 |
| 16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, solid ground wire | | |



BBF18-1104DA



BB216TS-1104D



BB76-1104D

Rapid Ring™ Quick Ship Pre-Fab Assemblies

| Part # | UPC # | Max. Order Qty. |
|---|-------------|-----------------|
| BB216TS-1RR4DA 16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, stranded ground wire | 78205176294 | 50 |
| BB216TS-1RR4D 16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, solid ground wire | 78205176295 | 50 |
| BB216TS-2RR4DA 16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, stranded ground wire | 78205176296 | 50 |
| BB216TS-2RR4D 16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, solid ground wire | 78205176297 | 50 |



**Telescoping
Slider Bracket
with Rapid Ring**

Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



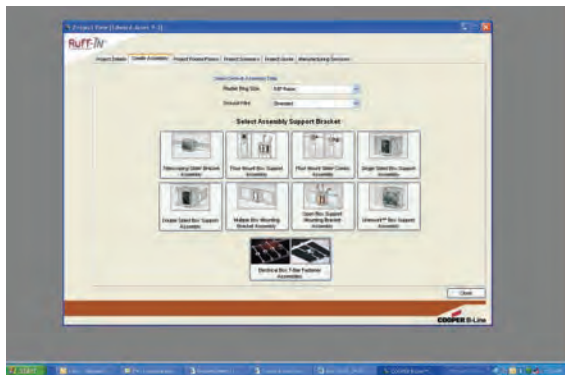
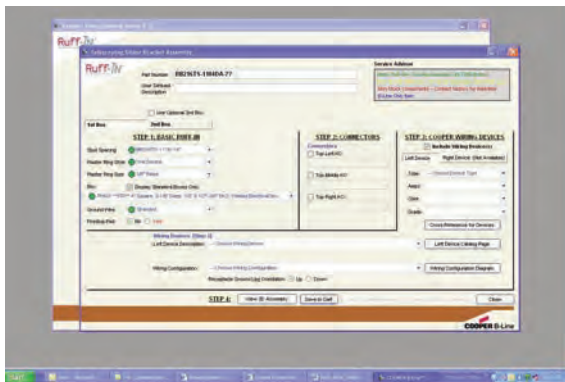
B-Line's Ruff-IN Configurator program helps simplify the planning process for pre-fab construction. The program will walk you through a component selection process, build customized pre-fab assemblies, and create a project BOM to accelerate the quotation process.

Configurator Features

- Build an assembly to your own specification by choosing from brackets, boxes, plaster rings, wiring devices, and other accessories.
- Check the assembly for accuracy by reviewing a 3D, rotatable image that is created in real time.
- Configure multiple assemblies and save them as a project.
- Divide the project into rooms and specify the types and quantities of assemblies that go in each location.
- Print a customized project submittal package with the push of a button.
- Submit the entire project with your specific job and assembly information to B-Line for a quote with one click.

All of these features translate into fewer mistakes and less time spent during the take-off process. Let the B-Line Ruff-IN Configurator go to work for you. Build your next project using B-Line's Ruff-IN pre-fabricated wiring assemblies today!

For more information, visit www.cooperbline.com/ruff-in.

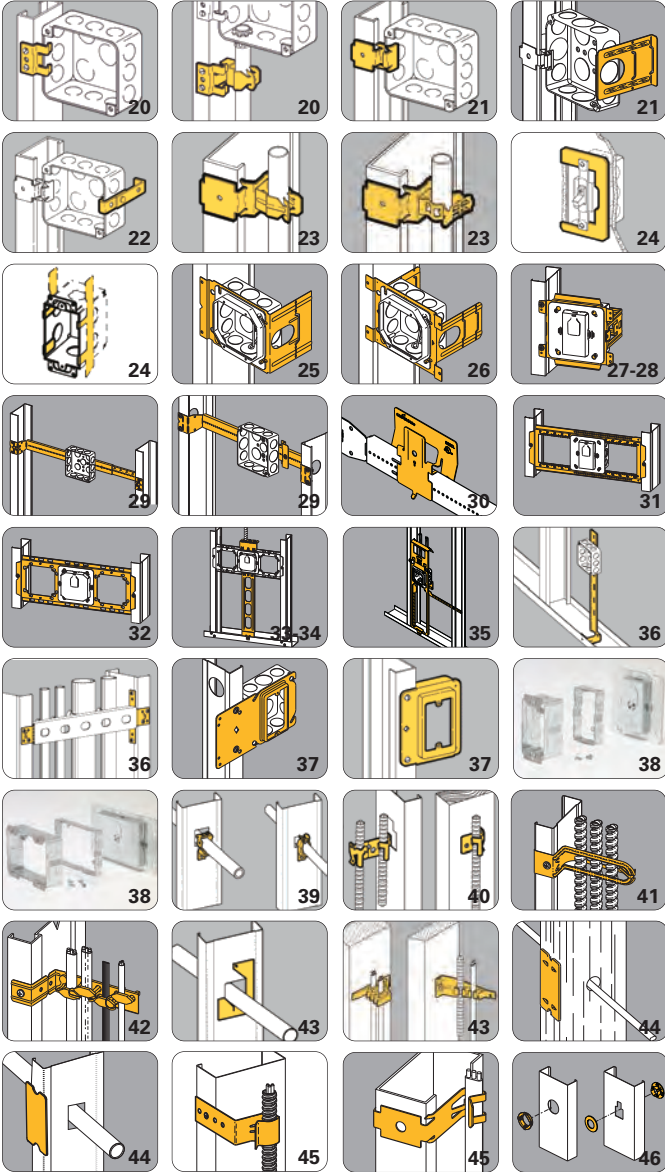


See Ruff-IN Pre-Fab Systems brochure for product information and part numbers.

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Wall Studs

Pictorial Index

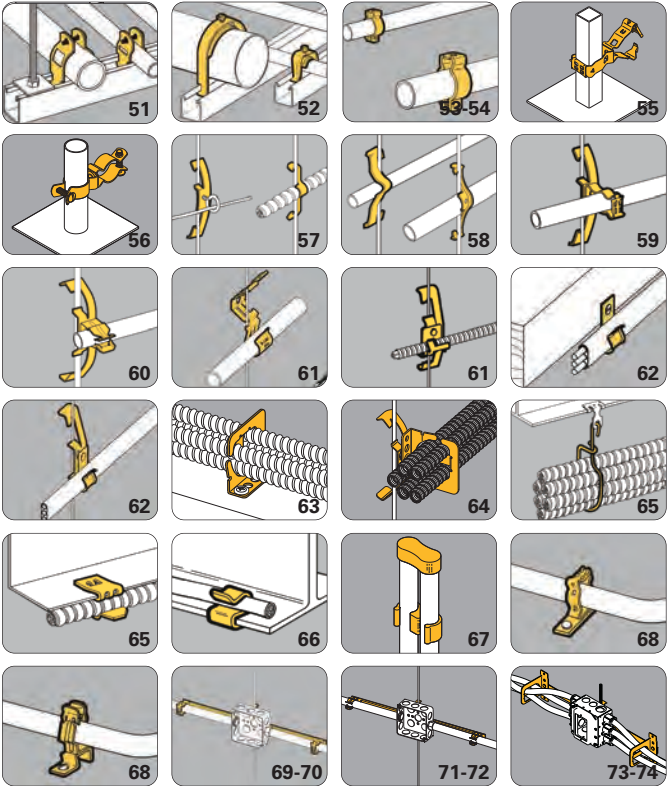


Conduit & Cable



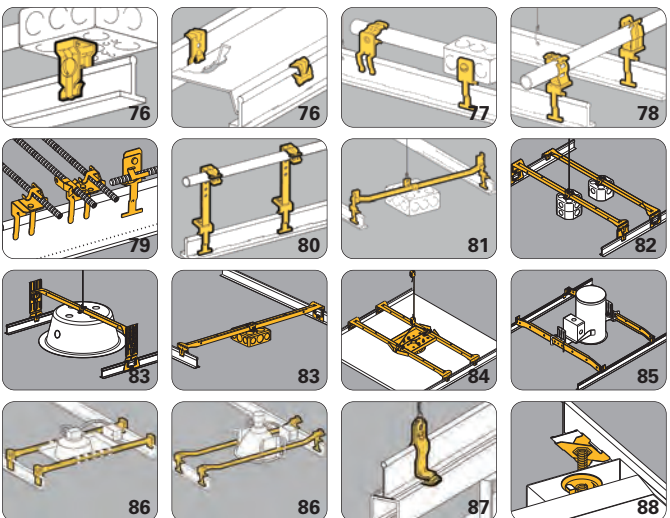
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Conduit & Cable



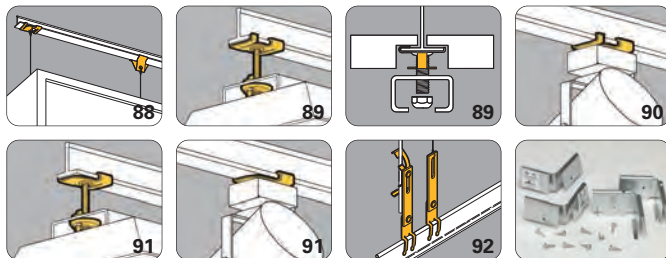
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Acoustical Tee

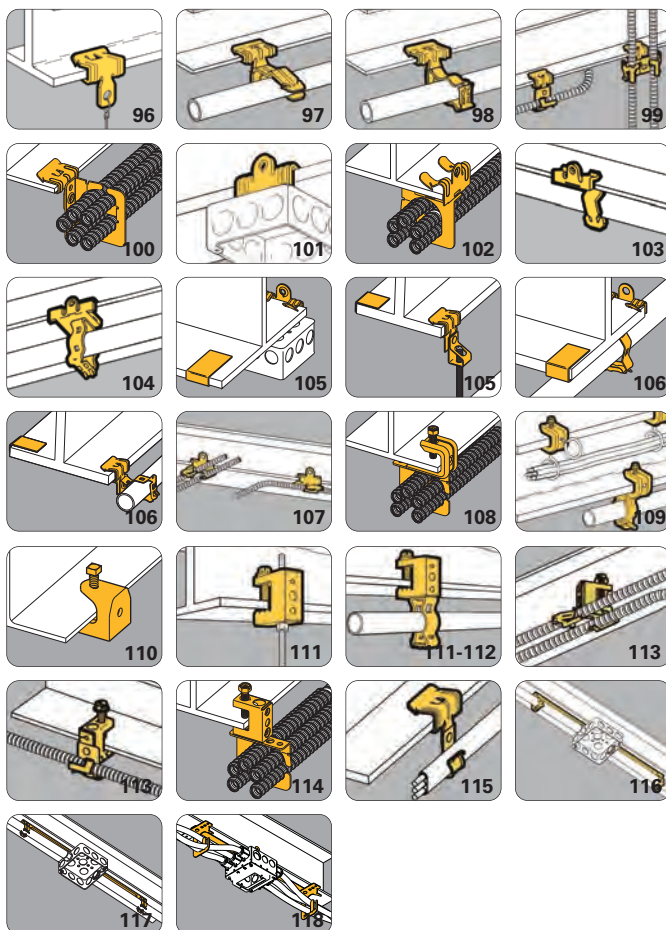


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Acoustical Tee

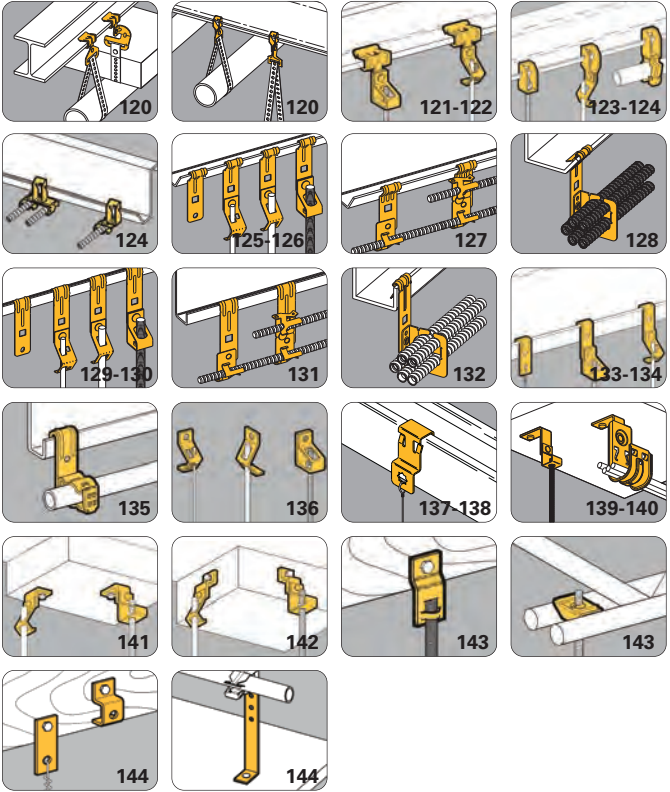


Beams



Pictorial Index

Hangers



Pictorial Index

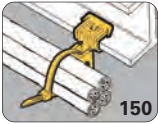
Lathers Channel



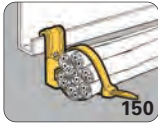
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Communication & Low Voltage

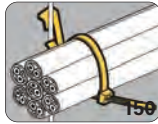
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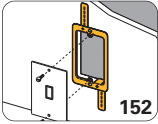
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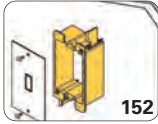
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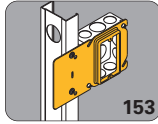
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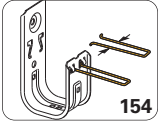
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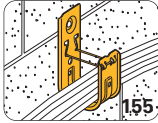
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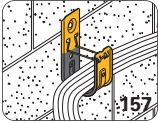
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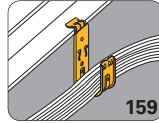
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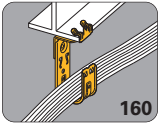
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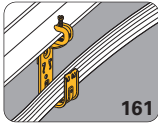
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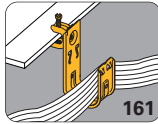
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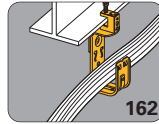
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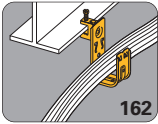
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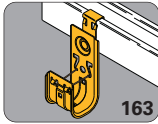
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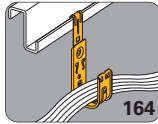
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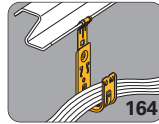
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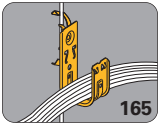
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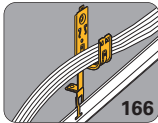
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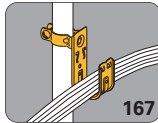
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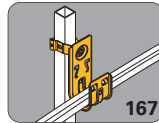
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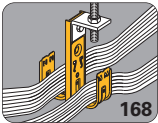
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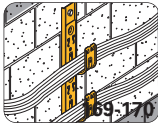
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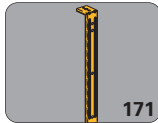
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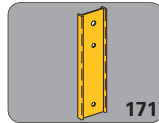
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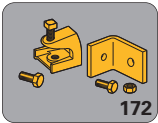
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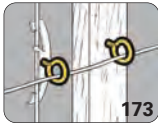
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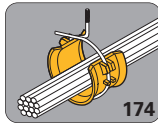
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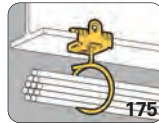
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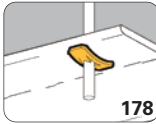


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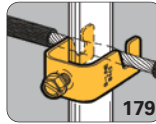
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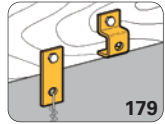
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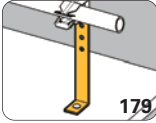
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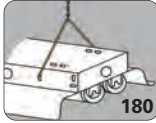
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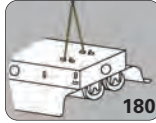
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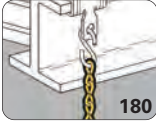
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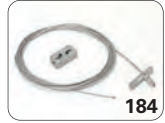
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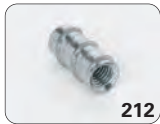


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Anchors

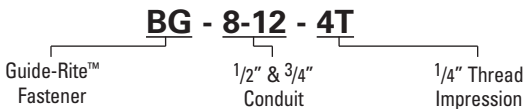


Part Numbering Guide

This part numbering guide can be used to quickly translate our part numbers into meaningful data.

| BG - 8-12 - 4T | | |
|----------------------------------|---------------|------------------------|
| Family | Size | Suffix |
| A Series - Anchors | Based on 16th | AS - Anchor Strap |
| * B Series - Pipe Strap | of an inch | BL - Equipment Blue |
| BA - Acoustical Tee Component | 1 - 1/16" | BN - Brass Nut |
| BB - Box Attachment | 2 - 1/8" | BR - Brown |
| BC - Beam Clamp | 4 - 1/4" | BW - Bright White |
| * BCH - Cable Hook | 5 - 5/16" | CW - Computer White |
| * BCS/BES - Conduit Spacer | 6 - 3/8" | D - Deep Box |
| BD - Deck Attachment | 8 - 1/2" | FB - Flat Black |
| * BE - Edge Attachment | 9 - 9/16" | GR - Green |
| BF - Flange Attachment | 12 - 3/4" | H - Hanger |
| * BG - Guide-Rite™ Fastener | 16 - 1" | LH - Less Hardware |
| BH - Hanger Attachment | 20 - 1 1/4" | LN - Less Nut |
| BK - KwikWire | 24 - 1 1/2" | LS - Less Stud |
| BL - Conduit Hangers (mini's) | 32 - 2" | OR - Orange |
| BM - Miscellaneous | 64 - 4" | R - Right Angle |
| BN - Push Nuts | | RR - Regal Red |
| * BP - Push Type Fasteners | | S - Stud |
| * BPC - Break Apart Straps | | T - Threaded |
| * BR - Bridle Rings | | TG - Telco Gray |
| BRC - Cable Fastener | | W - White |
| * BRS - Bridle Ring Saddle | | WBN - White /Brass Nut |
| BT - Installation Tools | | WN - Wing Nut |
| * BU - Universal Beam Attachment | | YL - Safety Yellow |
| BW - Bat Wing Fastener | | 4T - 1/4" Thread Imp. |
| BX - FMC Support | | |

* The data in the size column only applies to these product families.



Materials

| Steel | Specification |
|--------------------------|----------------------|
| High Carbon Cold Rolled | ASTM A684, AISI 1055 |
| Electrolytic Zinc Coated | ASTM A591 |
| Pre-Galvanized | ASTM A653 |

Steel

B-Line spring steel fasteners are manufactured from spheroidized annealed high carbon cold rolled steel (ASTM A684, AISI 1055). Mild steel fasteners are manufactured from electrolytic zinc coated steel (ASTM A591) or pre-galvanized steel (ASTM A563).

Electrolytic zinc coated and pre-galvanized steel is produced by coating coils of sheet steel with zinc at the mills. These coils are then slit to size and fabricated into B-Line products.

Heat Treatment

B-Line spring steel fasteners are heat treated to make the steel hard and give the parts their spring quality and strength. The hardness for a given fastener depends on the required load carrying capacity and the application.

Load Data

The design load ratings for B-Line fasteners are specified in this catalog as static load capacity or ultimate static load capacity. By definition, the listed static load capacity has a safety factor of three (3.0), the listed ultimate static load capacity has no safety factor. In either case, these stated loads are not to be exceeded, and loads should be applied only as depicted in the catalog and/or instruction sheets. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Fasteners having no load ratings are designed for proper placement of boxes, conduit, etc., and not for supporting loads.

B-Line fasteners are designed for use with support members (e.g.: angle iron, bar joists, beams, columns, flanges, purlins, wire, rod) that comply with the applicable AISI standards and threaded rod that complies with the applicable AISI standards.

Quality Assurance

B-Line has an established Q.C. program in which raw material and finished products are sampled, inspected and tested by certified inspectors to assure that all applicable standards are met. B-Line's fasteners are manufactured in controlled lots and each part is identified by a lot number stamped into the part. This number allows B-Line to track each step of the manufacturing process including raw material, die set-up, heat treating, and finishing. Samples are tested to verify correct hardness, corrosion resistance and load carrying capacity.

Part Numbering Guide

| Finish | Specification |
|-------------------------|--------------------|
| Zinc-Phosphate | MIL-P-16232 Type Z |
| Electro-galvanized Zinc | ASTM B633 |
| Pre-Galvanized Zinc | ASTM A653, G90 |
| Gloss White Paint | Acrylic Enamel |

Zinc Phosphate

B-Line spring steel fasteners receive a coating* of sealant impregnated zinc phosphate. This type of coating was commercially developed by industry to inhibit oxidation of ferrous metals for up to 72 hours in a specified salt fog atmosphere. As applied to its fasteners, B-Line rates this coating for 30 hours when salt fog tested per ASTM B-117.

Although rust resistant, B-Line fasteners should be used only indoors and in non-corrosive environments.

Unless otherwise noted, the standard finish for B-Line's spring steel fasteners is Zinc Phosphate.

*At least 1000 milligrams of zinc phosphate per square foot.

Paint

Some standard fasteners have a gloss white acrylic enamel applied over the zinc phosphate finish for an enhanced appearance that compliments white ceiling grids.

Electro-galvanized Zinc

Electro-galvanized zinc (also known as zinc plated or electroplated) is the process by which a coating of zinc is deposited on the steel by electrolysis from a bath of zinc salts.

The coating is pure zinc and is mechanically bonded to the steel. A maximum of .5 mils of zinc can be applied by this method.

When exposed to air and moisture, zinc forms a tough, adherent, protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. This film is in itself a barrier coating which slows subsequent corrosive attack of the zinc.

This coating is usually recommended for indoor use in relatively dry areas.

Pre-Galvanized Zinc

Pre-galvanized steel is produced by coating coils of sheet steel with zinc by continuously rolling the material through molten zinc at the mills. This is also known as mill galvanized or hot-dip mill galvanized. These coils are then slit to size and fabricated into B-Line products.

The G90 specification calls for a coating of .90 ounces of zinc per square foot on each side of the sheet.

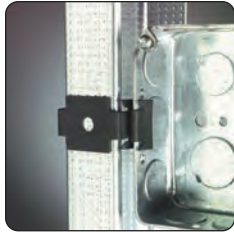
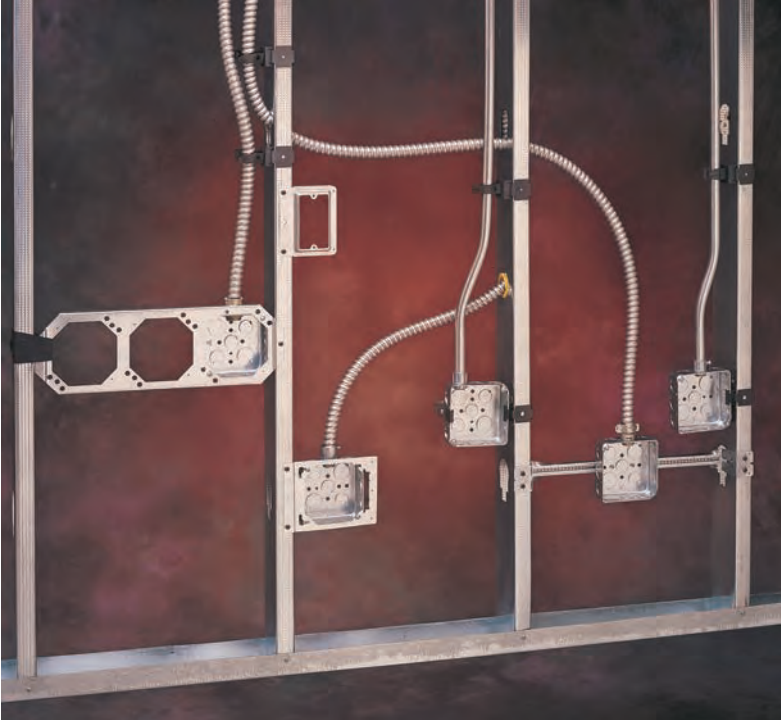
During fabrication, cut edges and welded areas are not normally zinc coated; however, the zinc near the uncoated metal becomes a sacrificial anode to protect the bare areas after a short period of time.

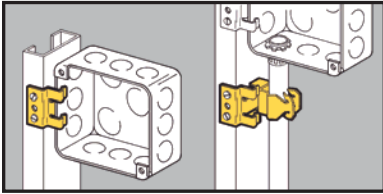
Pre-galvanized steel is recommended for indoor use in dry areas.

CAUTION: Do not use B-Line Fasteners outdoors or in corrosive environments. Proper application of each fastener is shown in this catalog and on the installation sheet inside each carton. Failure due to improper installation may cause harm to personnel and/or property. Allowable loads shown apply to the fastener only and do not account for the structure, which supports the fastener. Flanges, wires and rods used with these fasteners must meet A.I.S.I. standards. To improve personal safety on the jobsite, always observe all federal and local safety regulations: wear gloves, safety glasses and a hard hat.

Wall Studs

Wall Studs





- Attaches with screws to metal studs.
- BB1 supports electrical box.
- BG series features Guide-Rite design.
- BP series features push-type design.

Box To Stud Fastener



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------------|----------|
| 78101118145 | BB1 | Electrical Box Support Clip | 100 |

Guide-Rite™ Conduit To Stud Fastener



| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Box Qty. |
|-----------------|-------------------|--------------------------|----------|
| 78101118420 | BG-6-B1 * | 3/8" | 100 |
| 781011 18475 | BG-8-12-B1 | 1/2", 3/4" | 100 |
| 781011 18555 | BG-16-B1 | 1" | 100 |

Patent #4958792

- * BG-6 will accept the following range \varnothing .420 - \varnothing .675:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

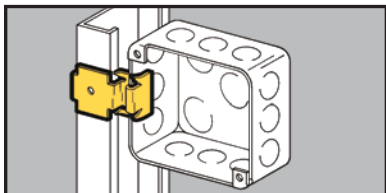
Push Type Conduit To Stud Fastener



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-----------------|------------------------------|----------|
| 781011 19245 | BP-8-B1 | 1/2" EMT | 100 |
| 781011 19345 | BP-12-B1 | 3/4" EMT, 1/2" IMC, Rigid | 100 |
| 781011 19440 | BP-16-B1 | 1" EMT, 3/4" IMC, Rigid | 100 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs

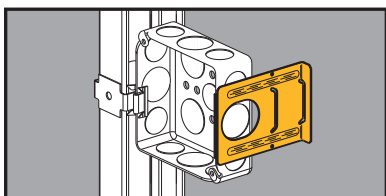


- Attaches electrical boxes (requiring plaster rings) to most metal studs.
- Box mounts flush to back of drywall.
- Simply installed with a hammer.

Box To Stud Fastener



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101118270 | BB9 | Electrical Box Support | 100 |



- Provides far-side support for electrical boxes in 2¹/₂" thru 6" studs.
- Cut outs facilitate bending to provide precise installation with greater stability.
- Easily snaps onto box side and is secured in place by plaster ring.

Adjustable Box Stabilizers



BB12

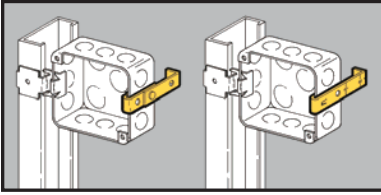


BB12-6



| UPC/Part Number | Catalog Number | Metal Stud Size | Box Qty. |
|-----------------|----------------|---|----------|
| 78101192876 | BB12 | 2 ¹ / ₂ " thru 4" | 100 |
| 78101192879 | BB12-6 | 6" | 100 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*



- Provides far-side support for electrical boxes.
- See BB12 Series for a better solution.

Box Stabilizer



BF1-96



BF1-64



BF1-56



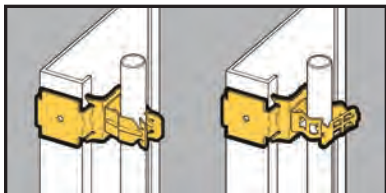
BF1-40



| UPC/Part Number | Catalog Number | Metal Stud Size | Box Qty. |
|-----------------|----------------|---------------------------------|----------|
| 78101118320 | BF1-40 | 2 ¹ / ₂ " | 100 |
| 78101118325 | BF1-56 | 3 ¹ / ₂ " | 100 |
| 78101118330 | BF1-64 | 4" | 100 |
| 78101118335 | BF1-96 | 6" | 100 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



- Attaches conduit to most metal studs.
- BG Series features Guide-Rite design.
- BP Series feature push-type design.

Guide-Rite™ Conduit To Stud Fastener



| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Box Qty. |
|-----------------|-------------------|--------------------------|----------|
| 78101118425 | BG-6-B5 * | 3/8" or BX | 100 |
| 78101118480 | BG-8-12-B5 | 1/2", 3/4" | 100 |
| 78101118560 | BG-16-B5 | 1" | 100 |
| 78101118645 | BG-20-B5 | 1 1/4" | 50 |

Patent #4958792

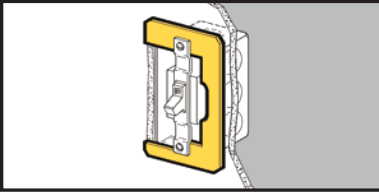
* BG-6 will accept the following range \varnothing .420 - \varnothing .675:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

Push Type Conduit To Stud Fastener



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-----------------|------------------------------|----------|
| 78101119250 | BP-8-B5 | 1/2" EMT | 100 |
| 78101119350 | BP-12-B5 | 3/4" EMT, 1/2" IMC, Rigid | 100 |
| 78101119445 | BP-16-B5 | 1" EMT, 3/4" IMC, Rigid | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

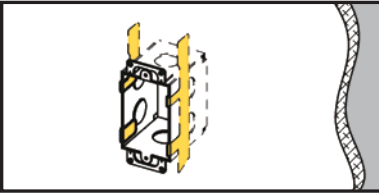


Retainer Leveler

- BB32 adds rigidity to devices in oversize wall openings.
- Holds wiring device firmly in drywall.
- Can be used with switches, receptacles, GFCIs and decorator devices.
- Ideal for positioning devices in pre-fab installations.
- Finish: Pre-Galvanized

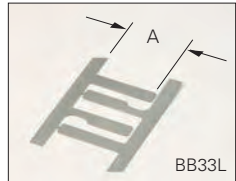
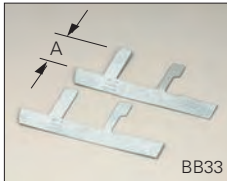


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101118215 | BB32 | Adds Rigidity to Oversize Wall Openings | 100 |



Box Support

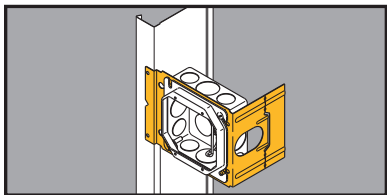
- Attaches electrical boxes to finished drywall.
- Box is completely supported by drywall.
- Prevents box from pulling out of wall.
- Finish: Pre-Galvanized



| UPC/Part Number | Catalog Number | Description | Length A | Box Qty. |
|-----------------|----------------|----------------------|---------------------------------|----------|
| 78101101138 | BB33 | Box Support | 1 ¹ / ₂ " | 100 pr. |
| 78101104936 | BB33L | Long Leg Box Support | 2 ¹ / ₂ " | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Wall Studs

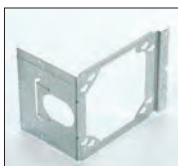


Box Support Brackets



- Improved far-side support stands up during drywall installation and outperforms competitor brackets.
- Supports 4" or 4¹¹/₁₆", square boxes.
- Brackets may be piggy-backed in series.
- Finish: Pre Galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.

Wall Studs



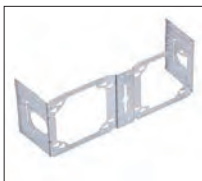
BB4-23



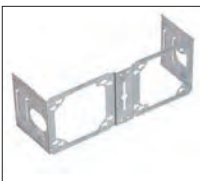
BB4-4



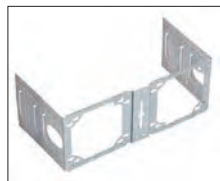
BB4-6



BB4-23D



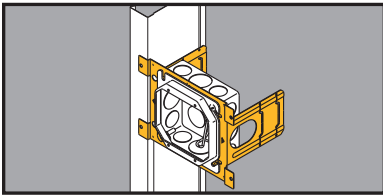
BB4-4D



BB4-6D

| UPC/Part Number | Catalog Number | Metal Stud Size | Box Qty. |
|-----------------|----------------|---|----------|
| 78101118190 | BB4-23 | 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 100 |
| 78101118200 | BB4-4 | 4", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 100 |
| 78101118202 | BB4-6 | 6", 5 ¹ / ₂ ", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 100 |
| 79903848375 | BB4-23D | 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |
| 79903848376 | BB4-4D | 4", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |
| 79903848377 | BB4-6D | 6", 5 ¹ / ₂ ", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



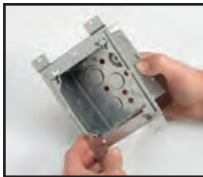
Double-Sided Box Support Bracket w/ Marty-Mouse™ Ears



1. Bracket is shipped with ear tabs in the open position



2. Insert box screws into open slots



3. When plaster ring is installed, the ear tabs are bent down into the closed position



4. With the tabs closed, the box remains secured to the bracket when the plaster ring is removed



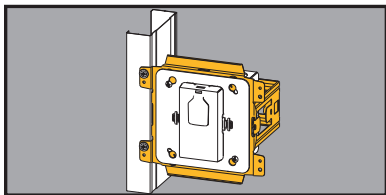
- Double-side box support, designed for Pre-Fab. Unit can be installed on either side of stud without repositioning box or devices.
- Patented Marty Mouse™ ears feature an innovative keyhole pattern to secure outlet box to bracket with or without the plaster ring.
- Wider box opening accommodates one or two gang adjustable plaster rings (B1AJ & B2AJ).
- Enhanced far-side support stands up during drywall installation and out out performs competitor brackets.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-Galvanized

| UPC/Part Number | Catalog Number | Stud Size | Box Qty. |
|-----------------|----------------|---|----------|
| 78205138645 | BB73 | 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |
| 78205138717 | BB74 | 4", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |
| 78205138759 | BB76 | 6", 5 ¹ / ₂ ", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 25 |

Patent # 5595362

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Wall Studs

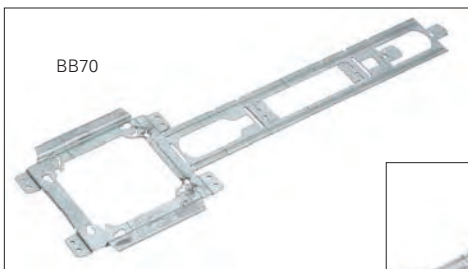


- Interlocking wrap-around design provides extra rigidity.
- Supports most standard 1-gang and 2-gang US and Canadian boxes and/or plaster rings 4" SQ., 4^{11/16}" SQ., and 5" SQ. on either side of the stud.

Box Support Brackets

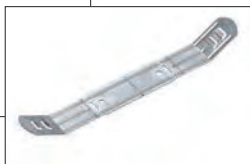
Available August 2014

- Adjustable for varying stud depths (2^{1/2}" to 6").
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Integral mounting tabs for attaching plaster rings.
- Multiple brackets may be ganged together.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box, mud ring, and pre-wired devices.
- Finish: Pre Galvanized.
- Patent Pending



BB70

BB70E*
(Sold separately,
must be used
with BB70)



See following page for various product information.

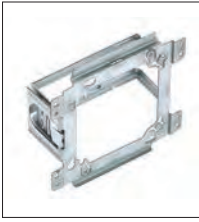
| UPC/Part Number | Catalog Number | Metal Stud Size | Box Qty. |
|-----------------|----------------|-------------------------|----------|
| 79903856399 | BB70 | 2 ^{1/2} " - 4" | 50 |
| 79903856400 | BB70E* | 5 ^{1/2} " - 6" | 50 |



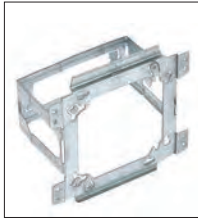
Can be used with BBCC (containment clip) and BBFS-18 (floor stand) See pages 33 & 34.

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

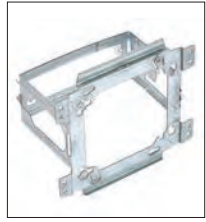
Bent For Various Depths



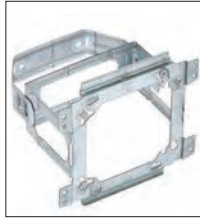
2 1/2"



3 5/8"



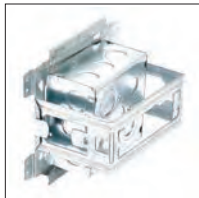
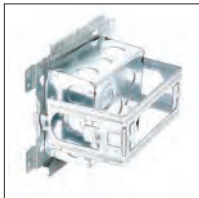
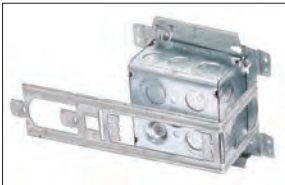
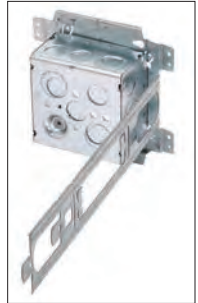
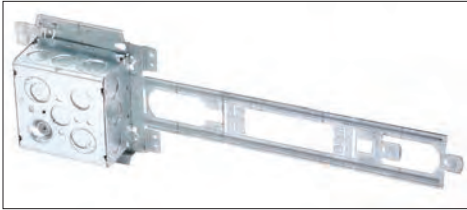
4"



6"

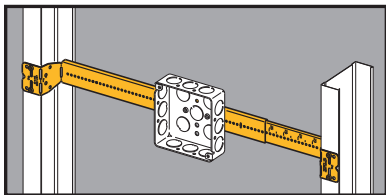
For 5 1/2" depth, snap the BB70E into the next notch on the bracket side

Bending Bracket For 3 5/8" Depth



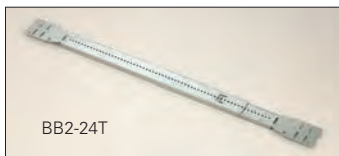
*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



Telescoping Box Mounting Bracket

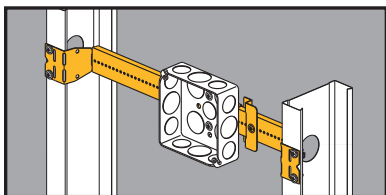
- Completely adjustable - fits a range of stud spacings and 1 1/2" or 2 1/8" deep boxes.
- Pre-punched screw holes provide for easy box installation.
- Bar is marked with scale for stud spacing.
- Finish: Pre-galvanized



BB2-24T

| UPC/Part Number | Catalog Number | Metal Stud Spacing | Box Qty. |
|-----------------|----------------|--------------------|----------|
| 78101104256 | BB2-16T | 11" to 18" | 50 |
| 78101101664 | BB2-24T | 15" to 26" | 50 |

Licensed under Patent #5386959 • Patent #5209444

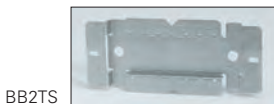


Telescoping Slider Bracket

- Designed for pre-fab.
- Box can be attached to slider bracket before or after slider is installed on telescoping bracket.
- Box location can be field adjusted by moving slider along telescoping bracket.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized



BB216TS

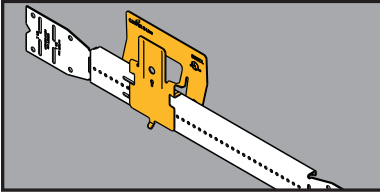


BB2TS

| UPC/Part Number | Catalog Number | Stud Spacing | Box Qty. |
|-----------------|----------------|---------------------|----------|
| 78205138614 | BB216TS | 11" to 18" | 20 |
| 78205138628 | BB224TS | 15" to 26" | 20 |
| 78205138613 | BB2TS | Slider Bracket Only | 50 |

Patent # 7,472,875

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



CROC-LOK™ Box Mounting Bracket



- Designed for pre-fab.
- Outlet boxes mount to the CROC-LOK with single screw.
- CROC-LOK box assemblies can be attached before or after the telescoping bar is mounted in the stud wall.
- The tool-less design enables CROC-LOK assemblies to be field installed in less than 4 seconds. Simply squeeze, secure and walk away.
- See Ruff-IN™ brochure for pre-fab box assemblies.

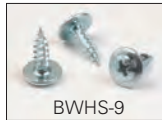
| UPC/Part Number | Catalog Number | Description | Stud Spacing | Box Qty. |
|-----------------|-----------------|----------------------|--------------|----------|
| 78205151291 | BB2CL | CROC-LOK only | N/A | 50 |
| 78205151292 | BB216TCL | BB216T with CROC-LOK | 11" - 16" | 20 |
| 78205151293 | BB224TCL | BB224T with CROC-LOK | 15" - 24" | 20 |

Note:

U.S. Patent # 8,403,277

Secures to B-Line BB2-16T and BB2-24T telescoping brackets only. For a standard 2¹/₈" deep box, the stud depth must be 3¹/₂" or greater. For a shallow 1¹/₂" deep box, the stud depth must be 2¹/₂" or greater.

Mounting Screws

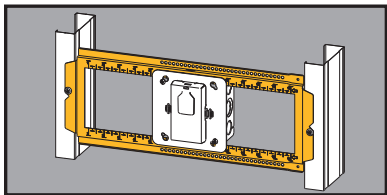


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--|----------|
| 78101101675 | BWHS-9 | #8 x 9/16" Sheet Metal Screw | 1000 |
| 78101104925 | BWHS-9D | #8 x 9/16" Self-Drilling Sheet Metal Screw | 1000 |

Note: BWHS-9 & BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws, except on BB2-16, BB2-16D, BB2-24 & BB2-24D which only BWHS-9 can be used.

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



Open Box Mounting Bracket

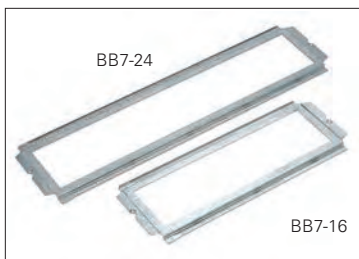
Available August 2014



- Open box support allows for adjustability of box position between studs.
- Supports most US and Canadian boxes and/or plaster rings 4" SQ., 4¹¹/₁₆" SQ., 5" SQ., and multi-gang boxes.

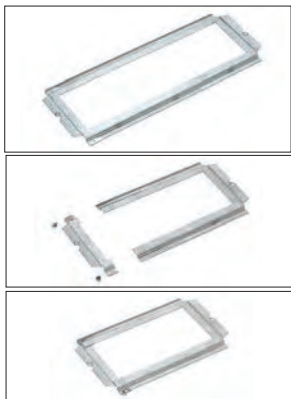
- Fits up to 1¹/₂" wide studs 16" to 24" on center.
- Compatible with Rapid Ring™ & adjustable plaster rings.
- Field cut to adjust to non-standard stud spacings.
- Stamped markings at 1/4", 1/2", and 1" increments to allow the installer to easily locate the desired box position.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending

Wall Studs



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78205145325 | BB7-16 | 16" Stud Spacing | 25 |
| 78205145328 | BB7-24 | 24" Stud Spacing | 25 |

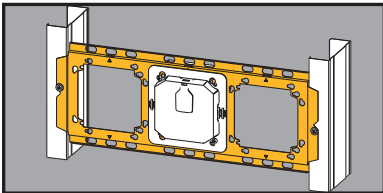
Can be cut on a mark to make shorter length brackets.



Can be used with BBFS-18 (floor stand)
See pages 33 & 34.



Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

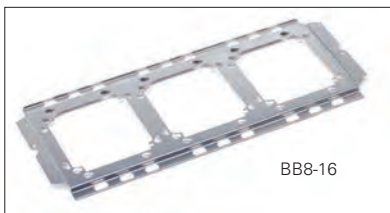


Box Mounting Bracket

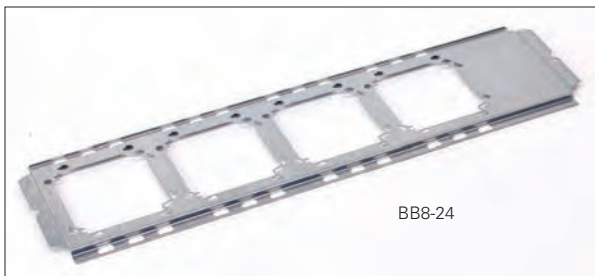


- Increased strength and rigidity help withstand the stress of drywall installation.
- Supports most US & Canadian boxes and plaster rings 4" SQ. and 4¹¹/₁₆" SQ.
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending

Wall Studs



BB8-16

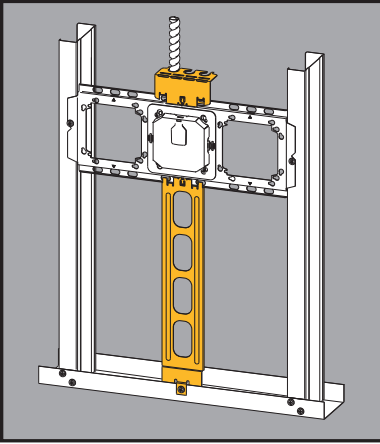


BB8-24

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------|----------|
| 78101102898 | BB8-16 | 16" Stud Spacing | 25 |
| 78101102900 | BB8-24 | 24" Stud Spacing | 25 |

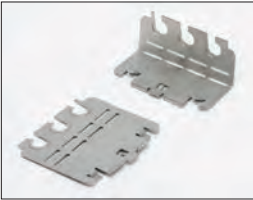
*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs

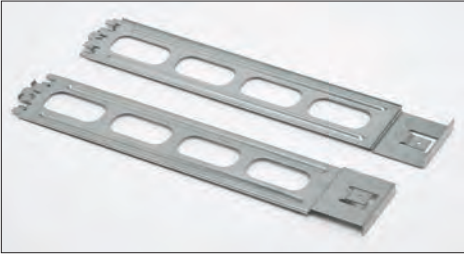


- Bracket accessories require no tools to install.
- BBCC cable containment clip provides first means of support for MC cable.
- BBFS-18 floor stand ensures consistent box height and eliminates need to measure for proper install height.
- Can be used with BB7 and BB8 brackets. See pages 27, 31, and 32.
- Pre-galvanized finish.

Box Mounting Bracket Accessories



BBCC



BBFS-18

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 79903851597 | BBFS-18 | Floor Stand | 25 |
| 79903851598 | BBCC | .439" - .750" OD MC Cable | 50 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

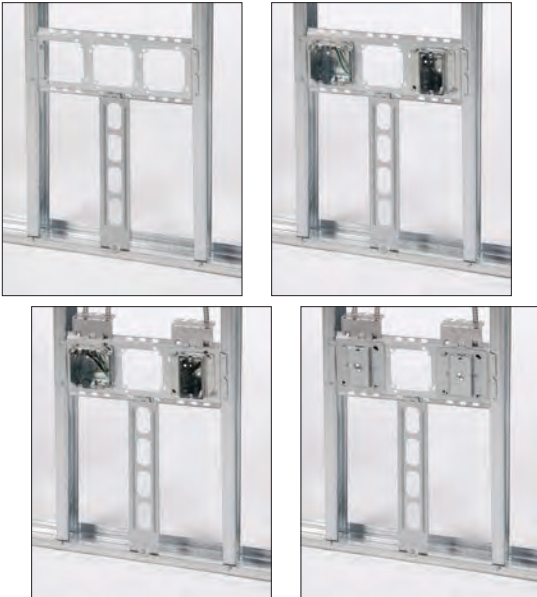
Box Mounting Bracket Accessories con't.



BB8-16 Installed

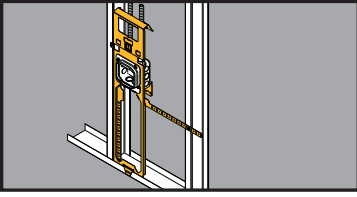


BBFS-18 & BBCC Installed (Can be used with BB7 or BB8 brackets)



*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



Floor-Mount Box Support



BBFC



BBF15



BBF18



BBF24



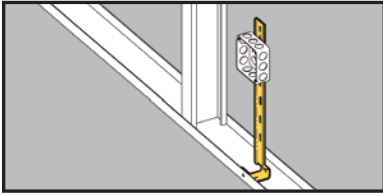
BBFxxC

- New BBF floorstand provides the most rigid support in the industry.
- Far-side support accommodates 6", 5 1/2", 3 5/8", and 2 1/2" stud depths.
- Fold-out tab built-in to attach floor stand to stud if desired.
- Integral "wings" provide rigid support when floorstand is mounted between studs.
- Optional cable containment clip securely attaches to floorstand without hardware.
- Patented Marty Mouse™ ears enable boxes to be secured in place with or without the plaster rings.
- Finish: Pre-galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.

| UPC/Part Number | Catalog Number | Box Center Height | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78205152944 | BBF15 | 15" Floorstand | 25 |
| 78205152945 | BBF18 | 18" Floorstand | 25 |
| 78205152946 | BBF24 | 24" Floorstand | 25 |
| 78205152947 | BBFC | 18" Floorstand | 25 |
| 78205152948 | BBF15C | 15" Floorstand with Cable Clip | 25 |
| 78205152949 | BBF18C | 18" Floorstand with Cable Clip | 25 |
| 78205152950 | BBF24C | 24" Floorstand with Cable Clip | 25 |

Patent #5595362
Patent #7956285 B2

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

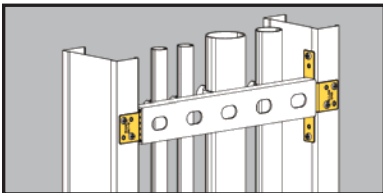


Floor Mounted Box Support

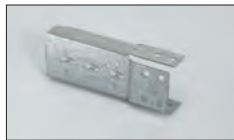


- See **BBF Series** for a better solution.
- Provides support for electrical box from floor track or concrete forms.
- 18" length with break-away feature for 12" or 16" box mounting.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101103623 | BB-18 | Floor Mounted Box Support | 50 |



Strut Mounting Brackets

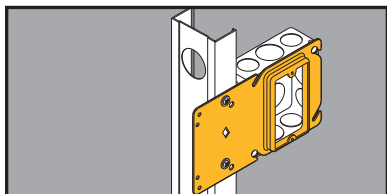


- Attaches 13/16" strut, 1 1/2" lathers channel, 1/2" EMT or 3/4" EMT to metal studs.
- Provides support for vertical runs of conduit.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101101658 | BMB1 | Strut Mounting Bracket | 25 pr. |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Wall Studs



- Uni-Mount provides a secure support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Enlarged viewing hole makes it easier to find mark lines on the stud.
- Gangable design accepts BB423 bracket to mount boxes on both sides of the stud.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

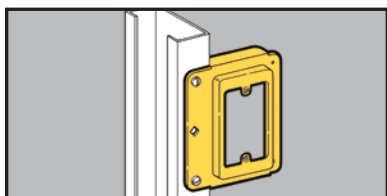
Uni-Mount™ Box Support/Cover Plate Mounting Bracket

Single Gang
BB40 Series



Double Gang
BB45 Series

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205122768 | BB40-08 | 1/2" Raise | 50 |
| 78205122771 | BB40-10 | 5/8" Raise | 50 |
| 78205122772 | BB40-12 | 3/4" Raise | 50 |
| 78205122773 | BB45-08 | 1/2" Raise | 50 |
| 78205122774 | BB45-10 | 5/8" Raise | 50 |
| 78205122775 | BB45-12 | 3/4" Raise | 50 |



Cover Plate Mounting Bracket



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Can be piggy-backed.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------|----------|
| 78101119873 | BB15 | Single Gang Stud Bracket | 50 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

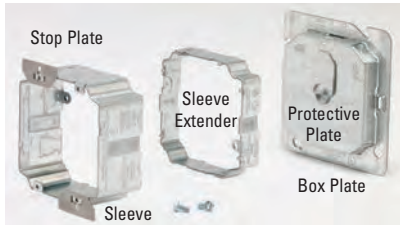
Rapid Ring™ Self Adjusting Pre-Fab Ring

The Rapid Ring self-adjusting pre-fab plaster ring can help you win tight bids and beat the profit squeeze with its innovative 4-step installation. This revolutionary new pre-fab system installs in as little as 15 seconds per unit, compressing your project schedule, cutting operational costs and reducing onsite waste.

Because the Rapid Ring is a self-adjusting pre-fab ring, you'll never need to adjust a mud ring again. With a simple push of the Rapid Ring you're flush every time.



1. Remove protective plate.
2. Connect the wiring device.
3. Position the device assembly.
4. Push in the device assembly—and you're done!



| For Use With Wiring Device Qty. | Electrical Box ⁵ | Box Plate ¹ Cat. No. | Sleeve ^{2,3} Cat. No. | Sleeve Extender ⁴ Cat. No. |
|------------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---|
| 1 | 4" sq. | B1RRP4C | B1RRR | B1RRE |
| 1 | 4 ¹¹ / ₁₆ " sq. | B1RRP5C | B1RRR | B1RRE |
| 2 | 4" sq. | B2RRP4C | B2RRR | B2RRE |
| 2 | 4 ¹¹ / ₁₆ " sq. | B2RRP5C | B2RRR | B2RRE |
| 3 | 3-gang ⁶ | B3RRPC | B3RRR | B3RRE |
| 4 | 4-gang ⁷ | B4RRPC | B4RRR | B4RRE |

1. Protective plate included with box plate.
2. Wall thickness range: 1/2" min. to 1 1/4" max.
3. Stop plates included with sleeve.
4. Sleeve extender is an optional accessory to extend max. wall thickness range to 2" (order separately, mounting hardware included)
5. Minimum electrical box depth is 2 1/8"
6. Keyhole knockouts allow use on 2-gang electrical box.
7. Keyhole knockouts allow use on 3-gang electrical box.

Go to www.cooperbline.com/rapidring

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



- Supports horizontal runs of conduit, flexible conduit, MC or AC cable through metal studs.
- Attaches easily with a single sheet metal screw.
- Prevents conduit/cable rattling.

Conduit/Cable Supports

Wall Studs



BG-x-H7



BP-x-H7
(Not UL)



BX4-H7



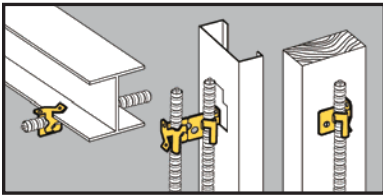
BX4M-H7
(Not UL)



| UPC/Part Number | Catalog Number | Conduit/Cable Size | Box Qty. |
|-----------------|-------------------|-----------------------------|----------|
| 78101101228 | BG-6-H7 * | 3/8", MC, AC, or FMC | 100 |
| 78101110238 | BG-8-12-H7 | 1/2" or 3/4" | 100 |
| Patent #4958792 | | | |
| 78101101227 | BP-8-H7 | 1/2" EMT | 100 |
| 78101101226 | BP-12-H7 | 3/4" EMT 1/2" IMC, Rigid | 100 |
| 78101101200 | BX4-H7 | MC, AC, or FMC | 100 |
| 78101101205 | BX4M-H7 | MC, AC, or FMC | 100 |

* BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and $5/16$ or $3/8$ flexible conduit

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to studs or flanges up to 3/16" thick.
- Snaps into place on metal stud openings or may be screwed to metal or wood studs.
- BX4M may be snapped in half to make two BX4's.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

Flexible Conduit/ Cable Fasteners



BX4M



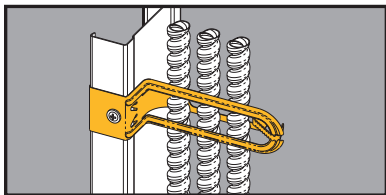
BX4MD



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------|----------|
| 78101101079 | BX4 | Single Runs | 100 |
| 78101101080 | BX4M | Double Runs | 100 |
| 78101101224 | BX4MD | Up to 4 Runs | 100 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



Cable Support



- Metal cable support can be used in plenum-rated areas.
- Longer locking tabs.
- Shipped pre-assembled.
- Hinge can be opened for greater cable capacity.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

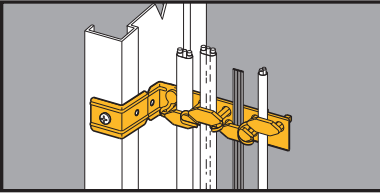
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|----------------|----------|
| 79903843761 | BRC6M | Up to 3/4" FMC | 100 |

Note: Canadian applications are limited to wood studs only.

| Cable Size | Cable Type | | | | | |
|--------------|-------------------|------|-------------------------|------|--------------------|------|
| | Non-Metallic (NM) | | Metal Clad (MC) | | Armored Cable (AC) | |
| | Qty. | Dia. | Qty. | Dia. | Qty. | Dia. |
| 14-2 w/ Grnd | 8 | .360 | 5 | .439 | 5 | .464 |
| 14-3 w/ Grnd | 8 | .307 | 5 | .464 | 5 | .483 |
| 14-4 w/ Grnd | 8 | .336 | 4 | .494 | 4 | .517 |
| 12-2 w/ Grnd | 7 | .410 | 5 | .475 | 4 | .498 |
| 12-3 w/ Grnd | 8 | .347 | 4 | .505 | 4 | .521 |
| 12-4 w/ Grnd | 7 | .381 | 4 | .539 | 4 | .557 |
| 10-2 w/ Grnd | 6 | .494 | 4 | .542 | 4 | .560 |
| 10-3 w/ Grnd | 7 | .422 | 4 | .580 | 4 | .588 |
| 10-4 w/ Grnd | NA | NA | 3 | .623 | 3 | .632 |
| 8-2 w/ Grnd | 4 | .612 | NA | NA | NA | NA |
| 8-3 w/ Grnd | 4 | .565 | NA | NA | NA | NA |
| 6-2 w/ Grnd | 4 | .650 | NA | NA | NA | NA |
| 5/16 FMC | | | 5 (.470 to .510 Dia.) | | | |
| 3/8 FMC | | | 4 (.560 to .610 Dia.) | | | |
| 1/2 FMC | | | 1 (.860 to .920 Dia.) | | | |
| 3/4 FMC | | | 1 (1.045 to 1.105 Dia.) | | | |

The quantity of cables shown in the chart is the maximum. Fewer cables can be supported. Diameters are based on data from a leading cable manufacturer (may vary slightly). Diameters of some NM cables refer to the widest dimension of a flat cable. NA = Not applicable

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



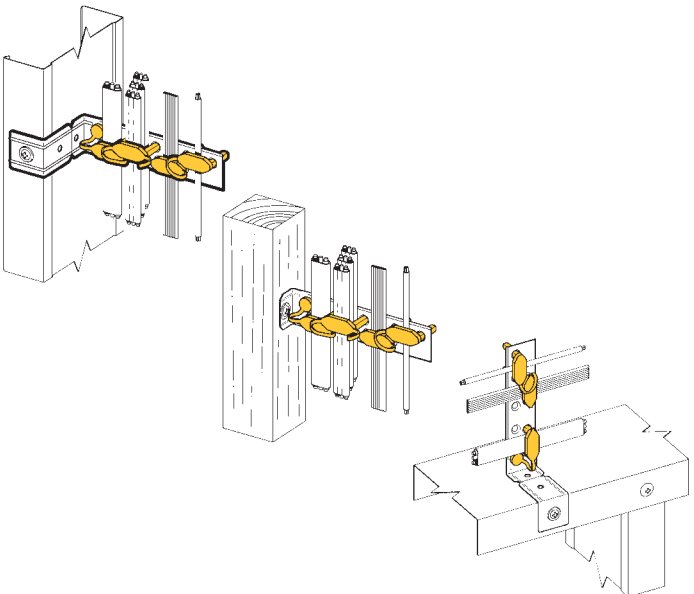
Staple-Lok™ Multi-Purpose Cable Support



- Individual plastic staples grip cable and reduce slipping.
- Secures up through #10 type NM cable.
- Supports AC, MC or FMC cable up to 1/2" O.D.
- Break-apart feature allows installation on studs and furring strips.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

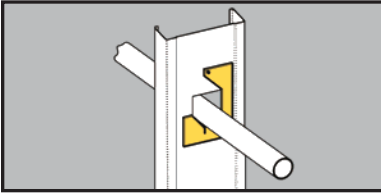
| UPC/Part Number | Catalog Number | Cable Size | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101103587 | BRC4 | Up to .500" O.D. | 100 |

Patent #5587555



*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs

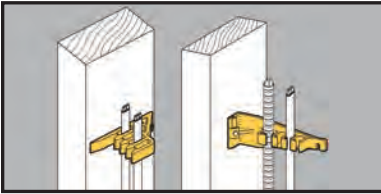


- Allows conduit, MC, AC, or FMC to be pulled through metal studs.
- Provides support for horizontal runs of conduit or cable through metal stud.
- Prevents rattling of conduit/cable.
- Finish: Pre-galvanized

Conduit/Cable Supports



| UPC/Part Number | Catalog Number | Conduit/Cable Size | Box Qty. |
|-----------------|----------------|--------------------|----------|
| 78101101657 | BX82 | Up to 1" | 100 |



- Attaches Type NM cables to wood studs.
- Can be used to support computer, CATV, telephone, security and instrumentation cables.
- Provided with nail inserted.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

Cable Fasteners



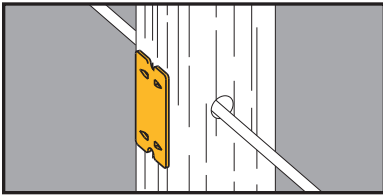
BRC1



BRC2

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101102941 | BRC1 | Wood Stud Cable Fastener | 50 |
| 78101102941 | BRC2 | Furring Strip Cable Fastener | 50 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

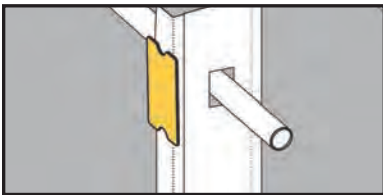


- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Easily installed with a hammer.
- Complies with NEC Article 300-4.

Nail Plates For Wood Studs

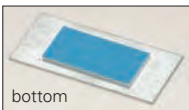


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104927 | BM3 | Nail Plate | 100 |



- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Comes with industrial grade double stick tape on back for easy installation on stud.
- Complies with NEC Article 300-4.

Nail Plates For Metal Studs

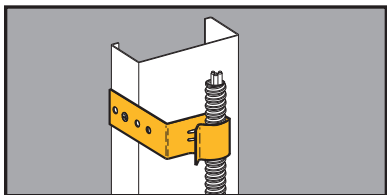


Just Peel Tape and Stick To Stud

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101126251 | BM3M | Nail Plate | 100 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Wall Studs



Conduit Support



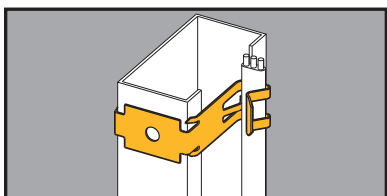
BB38



BB38D

- Larger capacity: Redesigned BB38D attaches 1/2" to 1" EMT or flexible conduit to metal or wood studs.
- BB38 attaches MC/AC cable, 1/2" & 3/4" EMT to metal or wood studs.
- Eliminates the need for offset bending of conduit.
- Aligns conduit with standard box knockouts.

| UPC/Part Number | Catalog Number | Box Depth | Box Qty. |
|-----------------|----------------|-----------|----------|
| 78101104265 | BB38 | 1 1/2" | 100 |
| 78101195244 | BB38D | 2 1/8" | 100 |



Flexible Conduit/Cable Fasteners

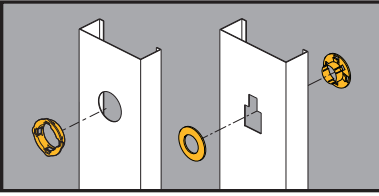


- Secures Romex^{®†} sizes 14/2 w/ground thru 12/3 w/ground, MC/AC sizes 14/2 thru 12/3 to metal or wood studs.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--|----------|
| 78101119755 | BX5 | Secures Flexible Conduit or Cable to Metal or Wood Studs | 100 |

†Romex[®] is a registered trademark used by Southwire[®] Company, Carrollton, Georgia.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Metal Stud Grommet



- BM1 snaps into standard 1¹¹/₃₂" diameter holes in metal studs from 25 Ga. to 16 Ga.
- Redesigned BM2 is shipped as one piece and easily separated for installation.
- Universal BM2 provides 360° protection. Fits all factory punched metal stud holes.
- Protects wire insulation in accordance with NEC Article 300.4(B) (1).



BM1



BM2

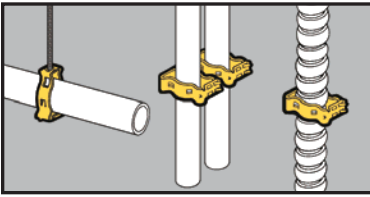
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------------|----------|
| 78101119100 | BM1 | Plastic Grommet | 100 |
| 78101119102 | BM1M | Plastic Grommet (Bulk Quantity) | 100 |
| 78101104926 | BM2 | Universal Plastic Grommet | 100 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Conduit & Cable

Conduit & Cable

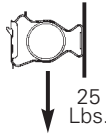




Guide-Rite™ Conduit Fasteners



Clearance Hole
For 1/4" Bolt



**Static
Load
Capacity**



100
Lbs.

| UPC/Part Number | Catalog Number | Conduit Size EMT/Rigid | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101118350 | BG-6* | 3/8" | 100 |
| 78101118355 | BG-8-12 | 1/2", 3/4" | 100 |
| 78101118360 | BG-16 | 1" | 100 |
| 78101118365 | BG-20 | 1 1/4" | 100 |
| 78101118360 | BG-24 | 1 1/2" | 100 |
| 78101118375 | BG-32 | 2" | 100 |



1/4"-20
Thread Impression



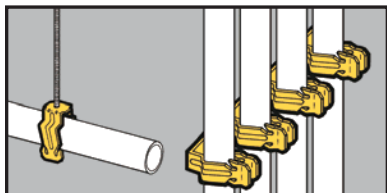
| UPC/Part Number | Catalog Number | Conduit Size EMT/Rigid | Box Qty. |
|-----------------|-------------------|------------------------|----------|
| 78101118380 | BG-6-4T* | 3/8" | 100 |
| 78101118385 | BG-8-12-4T | 1/2", 3/4" | 100 |
| 78101118390 | BG-16-4T | 1" | 100 |
| 78101118395 | BG-20-4T | 1 1/4" | 100 |
| 78101118400 | BG-24-4T | 1 1/2" | 100 |
| 78101118405 | BG-32-4T | 2" | 100 |

Patent #4958792

* BG-6 and BG-6-4T will accept the following range $\varnothing.420 - \varnothing.675$:
1/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

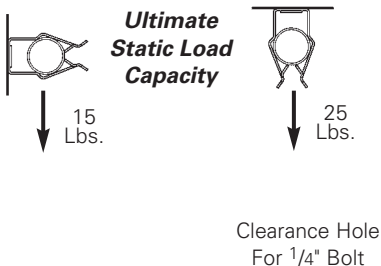
Read safety/installation instruction sheets in packages before use.

Conduit & Cable



- Conduit easily snaps into push type fastener for secure support.
- Available with clearance hole for 1/4" bolt or 1/4"-20 thread impression.
- **Ultimate Static Load Capacity:**
25 Lbs. Vertical
15 Lbs. Horizontal

Push-Type Conduit Fasteners



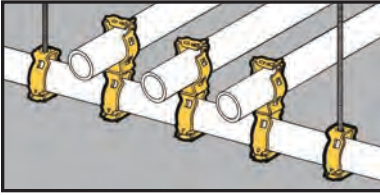
Conduit & Cable

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|----------------|-----------------------------|----------|
| 78101119200 | BP-8 | 1/2" EMT | 100 |
| 78101119205 | BP-12 | 3/4" EMT 1/2" IMC, Rigid | 100 |
| 78101119210 | BP-16 | 1" EMT 3/4" IMC, Rigid | 100 |

1/4"-20
Thread Impression



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-----------------|-----------------------------|----------|
| 78101119215 | BP-8-4T | 1/2" EMT | 100 |
| 78101119220 | BP-12-4T | 3/4" EMT 1/2" IMC, Rigid | 100 |
| 78101119225 | BP-16-4T | 1" EMT 3/4" IMC, Rigid | 100 |



Guide-Rite™ Conduit Trapeze Fasteners



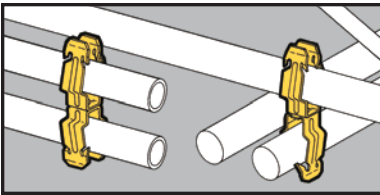
- For use with $\frac{3}{8}$ " to 2" conduit.
- Guide-Rite Fastener provides for fast and easy installation with pliers.



- Note: Total load of trapeze must not exceed 100 Lbs.

| UPC/Part Number | Catalog Number | Conduit To 1" Trapeze | Box Qty. |
|-----------------|---------------------|----------------------------------|----------|
| 78101118615 | BG-16-G-6* | $\frac{3}{8}$ " | 100 |
| 78101118620 | BG-16-G-8-12 | $\frac{1}{2}$ ", $\frac{3}{4}$ " | 100 |
| 78101118595 | BG-16-G-16 | 1" | 100 |
| 78101118600 | BG-16-G-20 | $1\frac{1}{4}$ " | 50 |
| 78101118605 | BG-16-G-24 | $1\frac{1}{2}$ " | 50 |
| 78101118610 | BG-16-G-32 | 2" | 50 |

* BG-16-G-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and $\frac{5}{16}$ or $\frac{3}{8}$ flexible conduit



Push-Type Conduit To Conduit Fasteners

- An ideal spacer between conduits.
- No installation tools required.



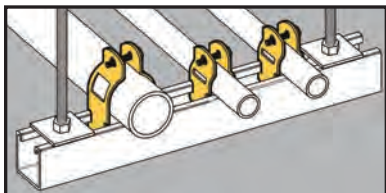
- **Ultimate Static Load Capacity:** 25 Lbs.

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-------------------|------------------------------------|----------|
| 78101118615 | BP-8-P-8 | $\frac{1}{2}$ " to $\frac{1}{2}$ " | 100 |
| 78101118620 | BP-8-P-12 | $\frac{1}{2}$ " to $\frac{3}{4}$ " | 100 |
| 78101118595 | BP-8-P-16 | $\frac{1}{2}$ " to 1" | 100 |
| 78101118600 | BP-12-P-12 | $\frac{3}{4}$ " to $\frac{3}{4}$ " | 100 |
| 78101118605 | BP-12-P-16 | $\frac{3}{4}$ " to 1" | 100 |
| 78101118610 | BP-16-P-16 | 1" to 1" | 100 |

Note: For rigid conduit with BP series, use next size larger fastener ($\frac{1}{2}$ " Rigid use BP-12).

Read safety/installation instruction sheets in packages before use.

Conduit & Cable

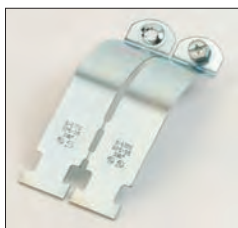


Break-Apart Conduit Clamps

- Patented Multi-Grip design fits Rigid, IMC or EMT conduit.
- Convenient break-apart clamp features retained bolt and $\frac{5}{16}$ " thread impression to eliminate handling of nuts and bolts.
- Finish: Pre-galvanized.
- Static Load Capacity: 200 lbs.



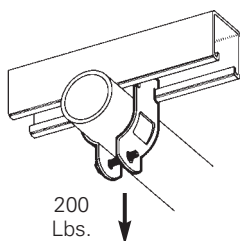
BPC-8 thru BPC-32



BPC-40 thru BPC-64



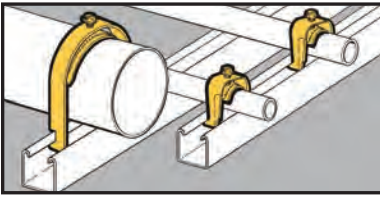
Static Load Capacity



200
Lbs.

| UPC/Part Number | Catalog Number | Rigid or EMT Conduit Size | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101101676 | BPC-8 | 1/2" | 100 |
| 78101101677 | BPC-12 | 3/4" | 100 |
| 78101101680 | BPC-16 | 1" | 100 |
| 78101101679 | BPC-20 | 1 1/4" | 50 |
| 78101101678 | BPC-24 | 1 1/2" | 50 |
| 78101101681 | BPC-32 | 2" | 50 |
| 78101103977 | BPC-40 | 2 1/2" | 50 |
| 78101103978 | BPC-48 | 3" | 50 |
| 78101103979 | BPC-56 | 3 1/2" | 25 |
| 78101103981 | BPC-64 | 4" | 25 |

Patent #4044428



Conduit Strut Clamps



B1532S thru B1564S

B1506S
thru
B1524S



B1508
thru
B1520



- Attaches conduit, flexible conduit or cables to standard strut channels.
- B1506S designed to secure and support MC/AC cables.
- Unique one-piece design eliminates handling of hardware and allows easy installation and removal in side-by-side conduit runs.
- Anti-rock feature prevents clamp from disengaging during installation.
- Finish: Pre-galvanized

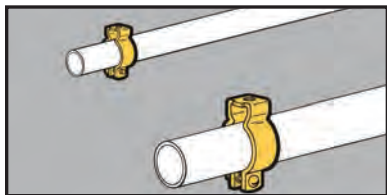
| UPC/Part Number | Catalog Number | Conduit Size | | OD Range Inches | | Static Load Cap. Lbs. | Box Qty. |
|---|----------------|--------------|--------|-----------------|-------|-----------------------|----------|
| | | EMT | Rigid | Min | Max | | |
| 78101163150 | B1508 | 1/2" | – | – | – | 200 | 100 |
| 78101163154 | B1512 | 3/4" | 1/2" | – | – | 200 | 100 |
| 78101163157 | B1516 | 1" | 3/4" | – | – | 300 | 100 |
| 78101163160 | B1520 | 1 1/4" | 1" | – | – | 300 | 100 |
| Note: Clamps without saddle are not recommended for flexible conduit or cable | | | | | | | |
| 78205144495 | B1506S* | 3/8"* | – | .400 | .630 | 200 | 100 |
| 78101163164 | B1508S | 1/2" | – | .250 | .680 | 200 | 100 |
| 78101163168 | B1512S | 3/4" | 1/2" | .500 | .840 | 200 | 100 |
| 78101163171 | B1516S | 1" | 3/4" | .750 | 1.050 | 300 | 100 |
| 78101163177 | B1520S | 1 1/4" | 1" | 1.125 | 1.315 | 300 | 100 |
| 78101163182 | B1524S | 1 1/2" | 1 1/4" | 1.375 | 1.660 | 400 | 50 |
| 78101163188 | B1532S | 2" | 1 1/2" | 1.875 | 2.200 | 400 | 50 |
| 78101163193 | B1534S | – | 2" | 2.125 | 2.375 | 400 | 25 |
| 78101163199 | B1540S | 2 1/2" | 2 1/2" | 2.625 | 2.875 | 400 | 25 |
| 78101163205 | B1548S | 3" | 3" | 3.250 | 3.500 | 400 | 25 |
| 78101163211 | B1556S | 3 1/2" | 3 1/2" | 3.750 | 4.000 | 400 | 10 |
| 78101163215 | B1564S | 4" | 4" | 4.250 | 4.500 | 400 | 10 |

Patent #5022614

- * B1506S will accept the following
 AC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4
 MC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Now available in DURA-COPPER™ finish - add DCU to part number.
- Finish: Zinc-Plated

Conduit Hangers



With Retained Bolt
And
Thread Impression



| UPC/Part Number | Catalog Number | Trade Size | Conduit Size | | Box Qty. |
|-----------------|----------------|------------|--------------|-------|----------|
| | | | EMT | Rigid | |
| 78101119800 | BL1400* | 0 | 1/2" | 1/2" | 100 |
| 78101119801 | BL1410* | 1 | 3/4" | 3/4" | 100 |
| 78101119802 | BL1420* | 2 | 1" | 1" | 100 |



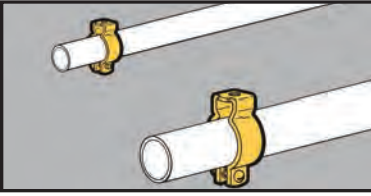
With Bolt And Nut



| UPC/Part Number | Catalog Number | Trade Size | Conduit Size | | Box Qty. |
|-----------------|----------------|------------|--------------|--------|----------|
| | | | EMT | Rigid | |
| 78101119803 | BL1425* | 2.5 | 1 1/4" | -- | 100 |
| 78101119804 | BL1430* | 3 | 1 1/2" | 1 1/4" | 100 |
| 78101119805 | BL1440† | 4 | -- | 1 1/2" | 50 |
| 78101119806 | BL1450† | 5 | 2" | 2" | 50 |
| 78101119807 | BL1460† | 6 | 2 1/2" | 2 1/2" | 25 |
| 78101119808 | BL1470† | 7 | 3" | 3" | 25 |
| 78101119809 | BL1480† | 8 | 3 1/2" | 3 1/2" | 10 |
| 78101119810 | BL1490† | 9 | 4" | 4" | 10 |

* 9/32" mounting hole. † 11/32" mounting hole.

Read safety/installation instruction sheets in packages before use.



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Material: Type 304 Stainless Steel

Stainless Steel Conduit Hangers



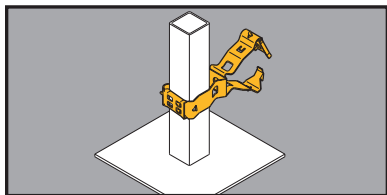
With Bolt And Nut

| UPC/Part Number | Catalog Number | Trade Size | Conduit Size | | Box Qty. |
|-----------------|--------------------|------------|--------------|--------|----------|
| | | | EMT | Rigid | |
| 78101119800 | BL1400-SS4* | 0 | 1/2" | 1/2" | 100 |
| 78101119801 | BL1410-SS4* | 1 | 3/4" | 3/4" | 100 |
| 78101119802 | BL1420-SS4* | 2 | 1" | 1" | 100 |
| 78101119803 | BL1425-SS4* | 2.5 | 1 1/4" | – | 100 |
| 78101119804 | BL1430-SS4* | 3 | 1 1/2" | 1 1/4" | 100 |
| 78101119805 | BL1440-SS4† | 4 | – | 1 1/2" | 50 |
| 78101119806 | BL1450-SS4† | 5 | 2" | 2" | 50 |
| 78101119807 | BL1460-SS4† | 6 | 2 1/2" | 2 1/2" | 25 |
| 78101119808 | BL1470-SS4† | 7 | 3" | 3" | 25 |
| 78101119809 | BL1480-SS4† | 8 | 3 1/2" | 3 1/2" | 10 |
| 78101119810 | BL1490-SS4† | 9 | 4" | 4" | 10 |

* 9/32" mounting hole. † 1 1/32" mounting hole.

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



Guide-Rite™ Conduit To Pedestal Support

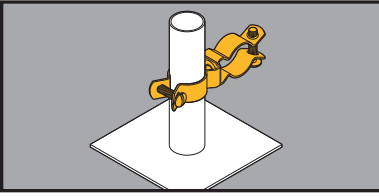
- Supports conduit from square computer floor pedestals.
- Unique Guide-Rite Fastener provides for fast and easy installation with pliers.
- Static Load Capacity: 25 lbs.



| UPC/Part Number | Catalog Number | Conduit Size EMT/Rigid | Box Qty. |
|-----------------|---------------------|------------------------|----------|
| 78205125589 | BG-8-12-G6* | 3/8" | 100 |
| 78101188538 | BG-8-12-G812 | 1/2" or 3/4" | 100 |
| 78101118620 | BG-16-G-8-12 | 1" | 100 |
| 78205125594 | BG-8-12-G20 | 1 1/4" | 50 |
| 78205125595 | BG-8-12-G24 | 1 1/2" | 50 |
| 78205125597 | BG-8-12-G32 | 2" | 50 |

Patent #4958792

- * BG-8-12-G6 will accept the following range \varnothing .420 - \varnothing .675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



Conduit To Pedestal Support

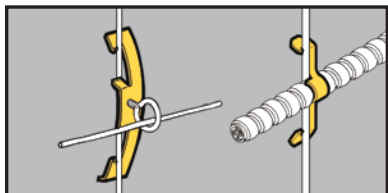
- Supports conduit from 1" O.D. computer floor pedestals.
- Also available in Type 304 Stainless Steel. Contact factory for details.
- Static Load Capacity: 25 lbs.
- Finish: Zinc-Plated



| UPC/Part Number | Catalog Number | Trade Size | Conduit Rigid | Conduit Size EMT | Box Qty. |
|-----------------|---------------------|------------|---------------|------------------|----------|
| 78205125599 | BL1410-L1400 | 0 | 1/2" | 1/2" | 50 |
| 78205125601 | BL1410-L1410 | 1 | 3/4" | 3/4" | 50 |
| 78205125602 | BL1410-L1420 | 2 | 1" | 1" | 50 |
| 78205125603 | BL1410-L1425 | 2.5 | – | 1 1/4" | 50 |
| 78205125607 | BL1410-L1430 | 3 | 1 1/4" | 1 1/2" | 50 |
| 78205125612 | BL1410-L1440 | 4 | 1 1/2" | – | 25 |
| 78205125614 | BL1410-L1450 | 5 | 2" | 2" | 25 |
| 78205125617 | BL1410-L1460 | 6 | 2 1/2" | 2 1/2" | 10 |
| 78205125618 | BL1410-L1470 | 7 | 3" | 3" | 10 |
| 78205125619 | BL1410-L1480 | 8 | 3 1/2" | 3 1/2" | 5 |

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



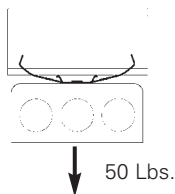
- BW2 and BW6 support #10-24 or 1/4"-20 threaded bridle rings and provide attachment for electrical boxes.
- BW2S & BW6S are provided with one each 1/4"-20 x 3/8" screw and hex nut.
- BW4 supports cables from #12 thru #8 wire.

Rod & Wire Fasteners



| UPC/Part Number | Catalog Number | Drop Rod/ Wire Size | Flange Thickness | Box Qty. |
|-----------------|----------------|---|---------------------|-------------|
| 78101119700 | BW2 | #12 wire thru 1/4" plain or threaded rod | 1/8" - 3/8" | 100 |
| 78205140156 | BW2S | #12 wire thru 1/4" plain or threaded rod | 1/8" - 3/8" | 100 |
| 78101195516 | BW6 | 3/8" plain or threaded rod | 3/8" - 7/16" | 100 |
| 78205140157 | BW6S | 3/8" plain or threaded rod | 3/8" - 7/16" | 100 |

Conduit & Cable



**Static Load
Capacity**



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------------|----------|
| 78101119705 | BW4 | Multi-size Wire Fastener | 100 |

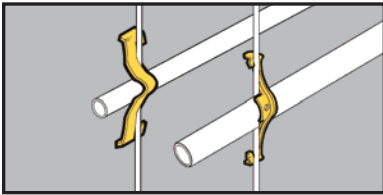


| MC/AC Cable Size | #12 Wire | #10 Wire | #8 & #9 Wire |
|---------------------|-------------|-------------|-----------------|
| 14/2 Cable | BW4 | BW4 | BW4 |
| 14/3 Cable | BW4 | BW4 | BW4 |
| 12/2 Cable | BW4 | BW4 | BW4 |
| 12/3 Cable | BW4 | BW-8 | BW-8 |

BW4 is designed for positioning only. No load rating.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Conduit & Cable



- See BX8 and BX18 for a better solution.
- Attaches conduit to wire rods or flanges.
- Can be used for flexible metallic tubing or armored cable.

Rod & Wire Fasteners



BW-8



BW-16

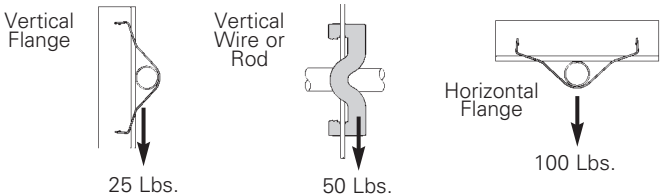


| UPC/Part Number | Catalog Number | Box Qty. |
|-----------------|----------------|----------|
| 78101119710 | BW-8 | 100 |
| 78101119715 | BW-12 | 100 |
| 78101119720 | BW-16 | 100 |
| 78101119725 | BW-20 | 100 |

| Conduit Size | #10 & #12 Wire | #8 & #9 Wire | 3/16" & 1/4" Rod | 1/8" to 1/4" Flange | 5/16" to 3/8" Flange | 7/16" to 1/2" Flange |
|--------------|----------------|--------------|------------------|---------------------|----------------------|----------------------|
| 1/2" EMT | BW-8 | BW-8 | BW-8 | BW-8 | BW-12 | BW-12 |
| 1/2" Rigid | BW-8 | BW-12 | BW-12 | BW-12 | BW-12 | BW-16 |
| 3/4" EMT | BW-12 | BW-12 | BW-12 | BW-12 | BW-16 | BW-16 |
| 3/4" Rigid | BW-12 | BW-12 | BW-16 | BW-16 | BW-20* | BW-20* |
| 1" EMT | — | BW-16 | BW-16 | BW-16 | BW-20* | BW-20* |
| 1" Rigid | — | — | — | BW-20* | BW-20* | BW-20* |
| 1 1/4" EMT | — | BW-20 | BW-20 | BW-20 | — | — |

*Note: For horizontal applications only.

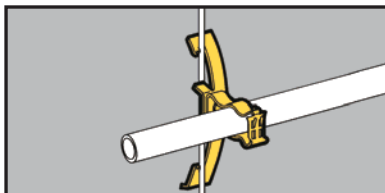
Static Load Capacity



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



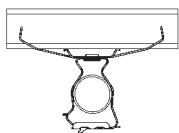
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

Guide-Rite™ Conduit To Rod Fasteners



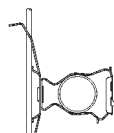
| UPC/Part Number | Catalog Number | Conduit Size EMT/Rigid | Box Qty. |
|-----------------|-------------------|------------------------|----------|
| 78101118540 | BG-8-12-W2 | 1/2", 3/4" | 100 |
| 78101118640 | BG-16-W2 | 1" | 100 |
| 78101195519 | BG-8-12-W6 | 1/2", 3/4" | 100 |
| 78101195520 | BG-16-W6 | 1" | 100 |

Patent #4958792



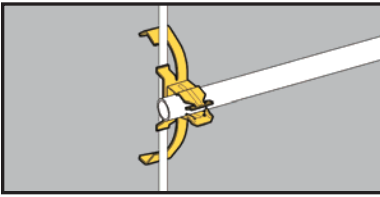
50 Lbs.

**Static Load
Capacity**



25 Lbs.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

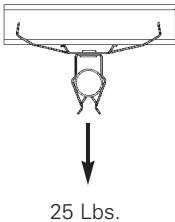


Push-Type Conduit To Rod Fasteners

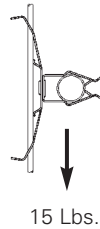
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-----------------|--------------------------------|----------|
| 78101119325 | BP-8-W2 | 1/2" EMT | 100 |
| 78101119420 | BP-12-W2 | 3/4" EMT or 1/2" IMC. Rigid | 100 |
| 78101119505 | BP-16-W2 | 1" EMT or 3/4" IMC, Rigid | 100 |
| 78101195521 | BP-8-W6 | 1/2" EMT | 100 |
| 78101195522 | BP-12-W6 | 3/4" EMT or 1/2" IMC. Rigid | 100 |
| 78101195523 | BP-16-W6 | 1" EMT or 3/4" IMC, Rigid | 100 |

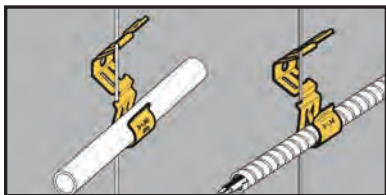


Ultimate Static Load Capacity



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Conduit & Cable



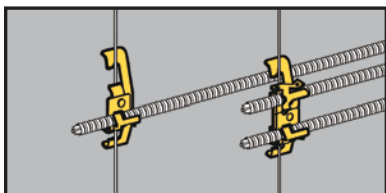
Flex-Rite™ Cable/Conduit To Wire Fasteners



- Can be used in place of batwings.
- Will not bend or deform hanger wire.
- Attaches to #12 - #8 wire and 1/4" plain rod.
- Accommodates MC, AC, 3/8" FMC or 1/2" EMT.
- Cable can be installed before or after attachment to wire.
- Static Load Capacity:
BX-8 - 20 Lbs.
BX-18 - 30 Lbs.

| UPC/Part Number | Catalog Number | Cable/Conduit Size | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101101402 | BX-8 | .375" to 706" O.D. | 100 |
| 78101102943 | BX-18 | .706" to 1.380" O.D. | 100 |
| 78101101685 | BX-8B | Bulk Packed In Fiber Barrels | 4000 |

Conduit & Cable



Cable To Rod Fasteners



BX4-W2

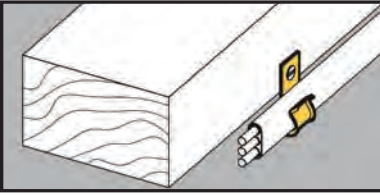


- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8 FMC.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

BX4M-W2

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101101219 | BX4-W2 | Single Runs | 100 |
| 78101101189 | BX4M-W2 | Double Runs | 100 |
| 78101195517 | BX4-W6 | Single Runs | 100 |
| 78101195518 | BX4M-W6 | Double Runs | 100 |

Read safety/installation instruction sheets in packages before use.

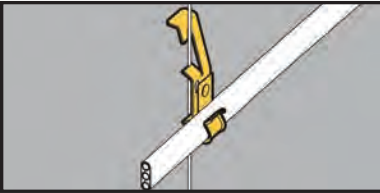


Cable Fasteners



- Attaches Type NM cable to most structures.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- May be used with other B-Line fasteners for attachment to acoustical tees, beams, drop wires, etc.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101103553 | BRC3 | Type NM Cable Fastener | 100 |



Cable Fasteners

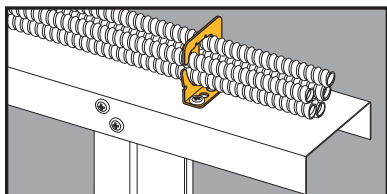


- Supports cable sizes 14/2 and 12/2 with ground wire.
- W2 series supports cable from #12 wire thru 1/4" plain or threaded rod.
- W6 series supports cable from 3/8" plain or threaded rod.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101103547 | BRC3-W2 | Type NM Cable To Wire Fastener | 100 |
| 78101195524 | BRC3-W6 | Type NM Cable To Wire Fastener | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Conduit & Cable



Multi-Run Cable Carrier for MC/AC Cable

- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Compatible with new BCH-HBA for multi tier assemblies.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated



BRC5-1



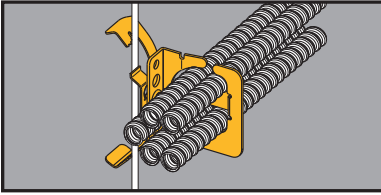
BRC5-2



BRC5-3



| UPC/Part Number | Catalog Number | Cable Diameter & Number Of Runs | Box Qty. |
|-----------------|----------------|---------------------------------|----------|
| 78205143593 | BRC5-1 | .430" to .560" Up To 4 Runs | 50 |
| 78205143594 | BRC5-2 | .430" to .560" Up To 9 Runs | 50 |
| 78205143595 | BRC5-3 | .560" to .690" Up To 7 Runs | 50 |



Multi-Run Cable Carrier for MC/AC Cable



- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- W2 Series attaches to 1/8" thru 3/8" flanges or #12 thru 1/4" plain or threaded rod.
- W6 Series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated

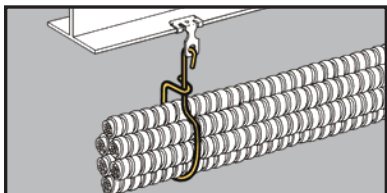


| UPC/Part Number | Catalog Number | Cable Diameter & Number Of Runs | Box Qty. |
|-----------------|-----------------|---------------------------------|----------|
| 78205144075 | BRC51-W2 | .430" to .560" Up To 4 Runs | 25 |
| 78205144076 | BRC52-W2 | .430" to .560" Up To 9 Runs | 25 |
| 78205144077 | BRC53-W2 | .560" to .690" Up To 7 Runs | 25 |
| 78205144078 | BRC51-W6 | .430" to .560" Up To 4 Runs | 25 |
| 78205144079 | BRC52-W6 | .430" to .560" Up To 9 Runs | 25 |
| 78205144080 | BRC53-W6 | .560" to .690" Up To 7 Runs | 25 |

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

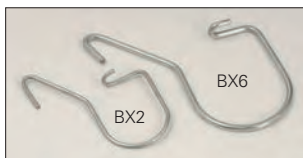
Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Conduit & Cable



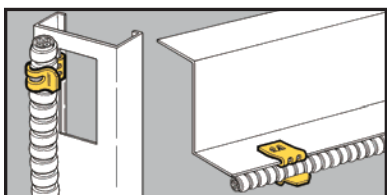
- Designed to support multiple runs of MC, AC, FMC or communication cable.
- Static Load Capacity:
BX2 - 50 lbs.
BX6 & BX24 - 75 Lbs.
- Finish: Zinc Plated

Flexible Cable Support



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------|----------|
| 78205104934 | BX2 | Usable Area = 2 sq. in. | 100 |
| 78205119765 | BX6 | Usable Area = 4 sq. in. | 100 |
| 78205119766 | BX24 | Usable Area = 13 sq. in. | 100 |

Conduit & Cable

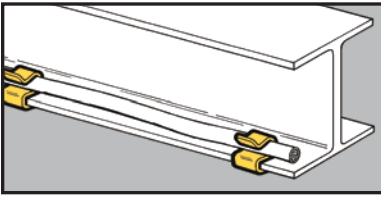


- Fastens flexible conduit and other small cables to beam flanges, bar joists or metal studs.
- Cable O.D. range of 0.42" to 0.70".
- Maximum flange thickness $5/32"$.

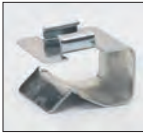
Flexible Conduit/Cable Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101119770 | BX9 | Flexible Conduit Fastener | 100 |



Flexible Conduit/ Cable Fasteners



BFA Series
(For Use with
BXS Series
Only)



BXS
Series



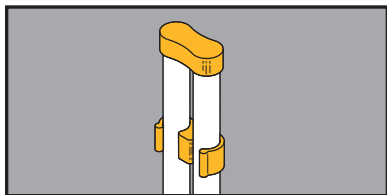
BXL
Series

- Secures cable along flanges 1/16" to 3/4" thick.
- The BFA flange adapters attach BXS series to thicker flanges.
- BX_-67 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX_-1011 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX_-1214 accepts 10/3, romex with ground.
- Finish: Zinc Plated

| UPC/Part Number | Catalog Number | Flange Thickness | Cable Diameter | Box Qty. |
|-----------------|-----------------|------------------|----------------|----------|
| 78101119973 | BXS-67 | 1/16" - 5/32" | .218 to .281 | 100 |
| 78101119974 | BXS-89 | 1/16" - 5/32" | .290 to .375 | 100 |
| 78101119975 | BXS-1011 | 1/16" - 5/32" | .375 to .437 | 100 |
| 78101119976 | BXS-1214 | 1/16" - 5/32" | .444 to .560 | 100 |
| 78101119977 | BXS-1519 | 1/16" - 5/32" | .500 to .718 | 100 |
| 78101119978 | BXS-2024 | 1/16" - 5/32" | .748 to .945 | 100 |
| 78101119979 | BXS-2530 | 1/16" - 5/32" | .968 to 1.250 | 100 |
| 78101119980 | BXM-67 | 5/32" - 9/32" | .218 to .281 | 100 |
| 78101119981 | BXM-89 | 5/32" - 9/32" | .290 to .375 | 100 |
| 78101119982 | BXM-1011 | 5/32" - 9/32" | .375 to .437 | 100 |
| 78101119983 | BXM-1214 | 5/32" - 9/32" | .444 to .560 | 100 |
| 78101119984 | BXM-1519 | 5/32" - 9/32" | .500 to .718 | 100 |
| 78101119985 | BXM-2024 | 5/32" - 9/32" | .748 to .945 | 100 |
| 78101119986 | BXM-2530 | 5/32" - 9/32" | .968 to 1.250 | 100 |
| 78101119987 | BXL-67 | 5/16" - 1/2" | .218 to .281 | 100 |
| 78101119988 | BXL-89 | 5/16" - 1/2" | .290 to .375 | 100 |
| 78101119989 | BXL-1011 | 5/16" - 1/2" | .375 to .437 | 100 |
| 78101119990 | BXL-1214 | 5/16" - 1/2" | .444 to .560 | 100 |
| 78101119991 | BXL-1519 | 5/16" - 1/2" | .500 to .718 | 100 |
| 78101119992 | BXL-2024 | 5/16" - 1/2" | .748 to .945 | 100 |
| 78101119993 | BXL-2530 | 5/16" - 1/2" | .968 to 1.250 | 100 |
| 78101119955 | BFA-1215 | 1/2" - 5/8" | - | 100 |
| 78101119956 | BFA-1520 | 5/8" - 3/4" | - | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Conduit & Cable



Conduit Quick Caps & Spacers



BCS & BES
8 & 8C thru 16 & 16C



BCS 18, 18C, 20, & 20C



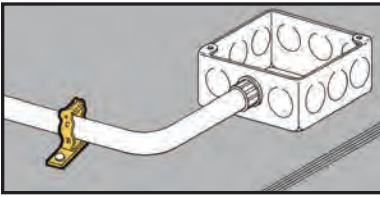
BCS 12AS & 16AS

- Quick caps and spacers eliminate the time consuming method of duct taping conduit stubs.
- Quick spacers are designed to separate and secure conduit during concrete pours.
- Quick caps maintain spacing and keep conduit free from dirt and debris.
- Quick caps and spacers properly space conduit for any 4" square box.
- Available in EMT & Rigid conduit sizes.

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------------|-----------------|----------------------|----------|
| Conduit Spacer | | | |
| 78205122356 | BCS-8 | 1/2" Rigid Conduit | 50 |
| 78205140057 | BES-8 | 1/2" EMT Conduit | 50 |
| 78205122357 | BCS-12 | 3/4" Rigid Conduit | 50 |
| 78205140058 | BES-12 | 3/4" EMT Conduit | 50 |
| 78205122358 | BCS-16 | 1" Rigid Conduit | 50 |
| 78205140059 | BES-16 | 1" EMT Conduit | 50 |
| 79903855806 | BCS-18 | 1 1/2" Rigid Conduit | 25 |
| 79903855807 | BCS-20 | 2" Rigid Conduit | 25 |
| Conduit Cap | | | |
| 78205122359 | BCS-8C | 1/2" Rigid Conduit | 50 |
| 78205140060 | BES-8C | 1/2" EMT Conduit | 50 |
| 78205122361 | BCS-12C | 3/4" Rigid Conduit | 50 |
| 78205140061 | BES-12C | 3/4" EMT Conduit | 50 |
| 78205122362 | BCS-16C | 1" Rigid Conduit | 50 |
| 78205140062 | BES-16C | 1" EMT Conduit | 50 |
| 79903855803 | BCS-18C | 1 1/2" Rigid Conduit | 25 |
| 79903855805 | BCS-20C | 2" Rigid Conduit | 25 |
| Conduit Spacer | | | |
| 79903855808 | BCS-12AS | 3/4" Rigid Conduit | 50 |
| 79903855809 | BCS-16AS | 1" Rigid Conduit | 25 |

Patent #5896892

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



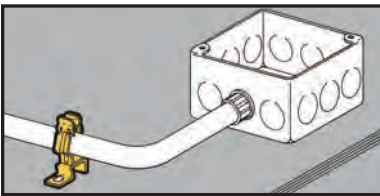
- Eliminates the need for offset bends when used with 1 1/2" deep boxes.
- Attaches conduit to concrete, steel or wood with nails.
- May be attached after conduit positioning.

Conduit Spacer Brackets



BP

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|---------------------------------|-------------------|--------------------------------|----------|
| 78101118495 Patent # 4958792 | BG-8-12-D3 | 1/2" or 3/4" | 100 |
| 78101119265 | BP-8-D3 | 1/2" EMT | 100 |
| 78101118365 | BP-12-D3 | 3/4" EMT or 1/2" IMC, Rigid | 100 |



- Eliminates the need for offset bends when used with 2 1/8" deep boxes.
- Provides secure support between conduit and deck.
- D4 Series is easily installed with screw gun or powder actuated tools.
- Allows for complete conduit layout prior to anchoring.

Conduit Spacer Brackets

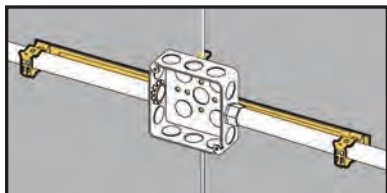


BP

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|---------------------------------|-------------------|--------------------------------|----------|
| 78101118500 Patent # 4958792 | BG-8-12-D4 | 1/2" or 3/4" | 100 |
| 78101119270 | BP-8-D4 | 1/2" EMT | 100 |
| 78101119370 | BP-12-D4 | 3/4" EMT or 1/2" IMC, Rigid | 100 |
| 78101119460 | BP-16-D4 | 1" EMT or 3/4" IMC, Rigid | 100 |

Read safety/installation instruction sheets in packages before use.

Conduit & Cable

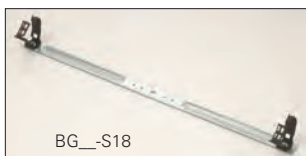


Guide-Rite™ Conduit & Box Support Fasteners



- See pages Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.



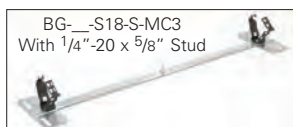
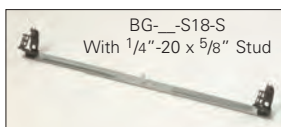
Conduit & Cable

| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Box Qty. |
|-----------------|------------------|--------------------------|----------|
| 78101103575 | BG6-S18 * | 3/8" | 25 |
| 78101103573 | BG812-S18 | 1/2" or 3/4" | 25 |
| 78101103574 | BG16-S18 | 1" | 25 |

With Multiple Conduit Plate

| | | | |
|-------------|----------------------|--------------|----|
| 78205152812 | BG6-S18-MC3 * | 3/8" | 25 |
| 78205152900 | BG812-S18-MC3 | 1/2" or 3/4" | 25 |
| 78205152901 | BG16-S18-MC3 | 1" | 25 |

Patent # 4958792



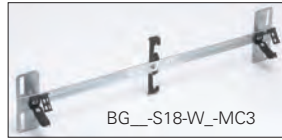
With Stud

| | | | |
|-------------|-------------------|--------------|----|
| 78205152902 | BG6-S18S * | 3/8" | 25 |
| 78110104979 | BG812-S18S | 1/2" or 3/4" | 25 |
| 78205152903 | BG16-S18S | 1" | 25 |

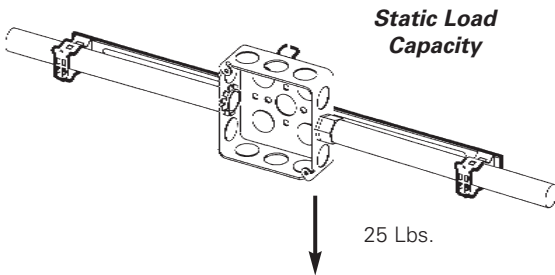
With Stud & Multiple Conduit Plate

| | | | |
|-------------|-----------------------|--------------|----|
| 78205152904 | BG6-S18S-MC3 * | 3/8" | 25 |
| 78205152905 | BG812-S18S-MC3 | 1/2" or 3/4" | 25 |
| 78205152906 | BG16-S18S-MC3 | 1" | 25 |

Conduit & Cable



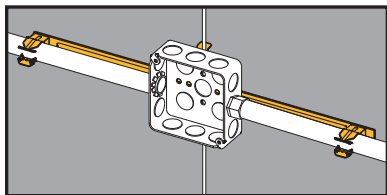
| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Box Qty. |
|---|-------------------------|--------------------------|----------|
| W2 Series for #12 thru 1/4" Rod ** | | | |
| 78101103578 | BG6-S18-W2 * | 3/8" | 25 |
| 78101103577 | BG812-S18-W2 | 1/2" or 3/4" | 25 |
| 78101103577 | BG16-S18-W2 | 1" | 25 |
| W2 Series for #12 thru 1/4" Rod & Multiple Conduit Plate ** | | | |
| 78205152855 | BG6-S18-W2-MC3 * | 3/8" | 25 |
| 78205152739 | BG812-S18-W2-MC3 | 1/2" or 3/4" | 25 |
| 78205152862 | BG16-S18-W2-MC3 | 1" | 25 |
| W6 Series for 3/8" Plain or Threaded Rod ** | | | |
| 78110199581 | BG6-S18-W6 * | 3/8" | 25 |
| 78110199582 | BG812-S18-W6 | 1/2" or 3/4" | 25 |
| 78110199580 | BG16-S18-W6 | 1" | 25 |
| W6 Series for 3/8" Plain or Threaded Rod & Multiple Conduit Plate ** | | | |
| 78205152856 | BG6-S18-W6-MC3 * | 3/8" | 25 |
| 78205152860 | BG812-S18-W6-MC3 | 1/2" or 3/4" | 25 |
| 78205152864 | BG16-S18-W6-MC3 | 1" | 25 |



- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit
- ** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



Push-Type Conduit & Box Support Fasteners

- See pages Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.

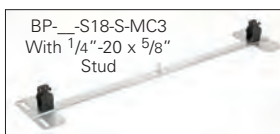
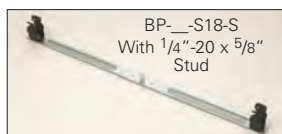


Conduit & Cable

| UPC/Part Number | Catalog Number | Conduit Size (EMT) R(Rigid) | Box Qty. |
|-----------------|-----------------|-----------------------------|----------|
| 78205123604 | BP8-S18 | 1/2" E | 25 |
| 78205123605 | BP12-S18 | 3/4" E or 1/2" R | 25 |
| 78205123606 | BP16-S18 | 1"E, 3/4" R | 25 |

With Multiple Conduit Plate

| | | | |
|-------------|---------------------|------------------|----|
| 78205152907 | BP8-S18-MC3 | 1/2" E | 25 |
| 78205152908 | BP12-S18-MC3 | 3/4" E or 1/2" R | 25 |
| 78205152909 | BP16-S18-MC3 | 1"E, 3/4" R | 25 |



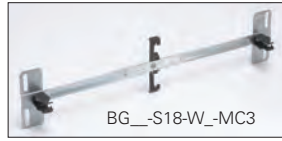
With Stud

| | | | |
|-------------|------------------|------------------|----|
| 78205123631 | BP8-S18S | 1/2" E | 25 |
| 78205123633 | BP12-S18S | 3/4" E or 1/2" R | 25 |
| 78205123634 | BP16-S18S | 1"E, 3/4" R | 25 |

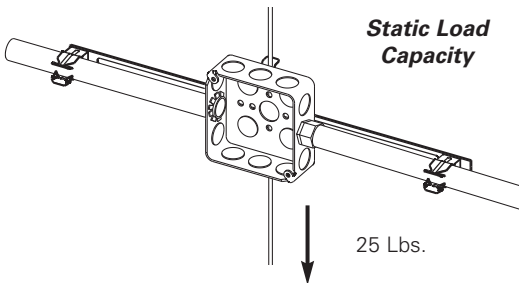
With Stud & Multiple Conduit Plate

| | | | |
|-------------|----------------------|------------------|----|
| 78205152913 | BP8-S18S-MC3 | 1/2" E | 25 |
| 78205152914 | BP12-S18S-MC3 | 3/4" E or 1/2" R | 25 |
| 78205152915 | BP16-S18S-MC3 | 1"E, 3/4" R | 25 |

Conduit & Cable

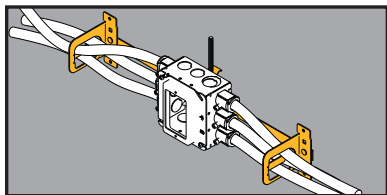


| UPC/Part Number | Catalog Number | Conduit Size E(EMT) R(Rigid) | Box Qty. |
|---|------------------------|---------------------------------|----------|
| W2 Series for #12 thru 1/4" Rod ** | | | |
| 78205123615 | BP8-S18-W2 | 1/2" EMT | 25 |
| 78205123619 | BP12-S18-W2 | 3/4" E or 1/2" R | 25 |
| 78205123627 | BP16-S18-W2 | 1"E, 3/4" R | 25 |
| W2 Series for #12 thru 1/4" Rod & Multiple Conduit Plate ** | | | |
| 78205152847 | BP8-S18-W2-MC3 | 1/2" EMT | 25 |
| 78205152848 | BP12-S18-W2-MC3 | 3/4" E or 1/2" R | 25 |
| 78205152849 | BP16-S18-W2-MC3 | 1"E, 3/4" R | 25 |
| W6 Series for 3/8" Plain or Threaded Rod ** | | | |
| 78205123628 | BP8-S18-W6 | 1/2" EMT | 25 |
| 78205123629 | BP12-S18-W6 | 3/4" E or 1/2" R | 25 |
| 78205123630 | BP16-S18-W6 | 1"E, 3/4" R | 25 |
| W6 Series for 3/8" Plain or Threaded Rod & Multiple Conduit Plate ** | | | |
| 78205152850 | BP8-S18-W6-MC3 | 1/2" EMT | 25 |
| 78205152851 | BP12-S18-W6-MC3 | 3/4" E or 1/2" R | 25 |
| 78205152854 | BP16-S18-W6-MC3 | 1"E, 3/4" R | 25 |



** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Conduit & Cable

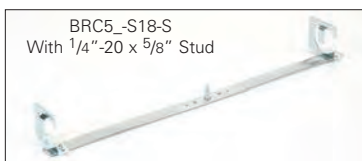


- Riveted assembly provides support for electrical boxes and cable runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Cable retention tab is open for easy loading and contains the cables when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.

Multi-Run Cable Carrier & Box Support Fasteners

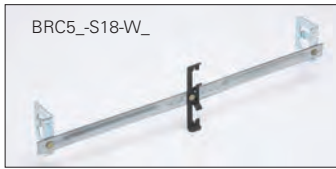


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|------------------|-------------------------------|----------|
| 78205152916 | BRC51-S18 | Up to 4 runs .430" - .560" | 25 |
| 78205152918 | BRC53-S18 | Up to 7 runs .560" - .690" | 25 |



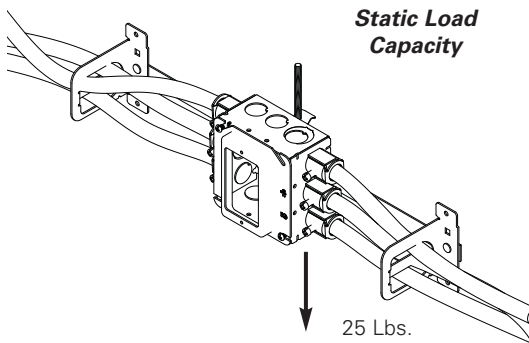
| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|------------------|-------------------|-------------------------------|----------|
| With Stud | | | |
| 78205152919 | BRC51-S18S | Up to 4 runs .430" - .560" | 25 |
| 78205152921 | BRC53-S18S | Up to 7 runs .560" - .690" | 25 |

Conduit & Cable



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|---|---------------------|-------------------------------|----------|
| W2 Series for #12 thru 1/4" Rod ** | | | |
| 78205152865 | BRC51-S18-W2 | Up to 4 runs .430" - .560" | 25 |
| 78205152869 | BRC53-S18-W2 | Up to 7 runs .560" - .690" | 25 |

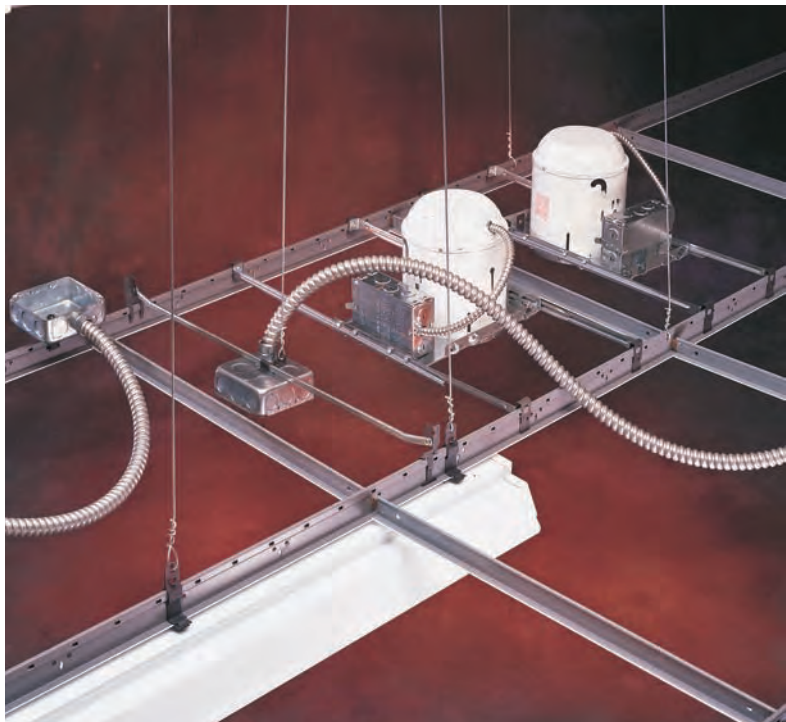
| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|--|---------------------|-------------------------------|----------|
| W6 Series for 3/8" Plain or Threaded Rod ** | | | |
| 78205152866 | BRC51-S18-W6 | Up to 4 runs .430" - .560" | 25 |
| 78205152870 | BRC53-S18-W6 | Up to 7 runs .560" - .690" | 25 |



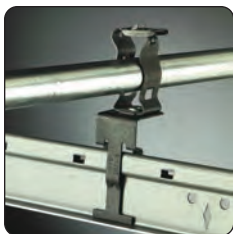
** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

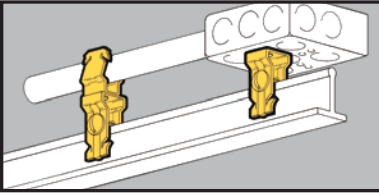
Read safety/installation instruction sheets in packages before use.

Acoustical Tee



Acoustical Tee



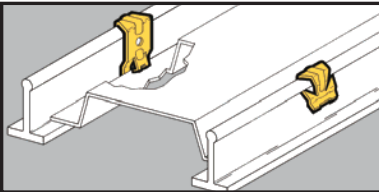


T-Bar Support Fasteners



- Attaches to top of acoustical T-Bar with 1/4"-20 screw.
- Has 1/4"-20 thread impression for attachment to box or conduit fastener.
- **Warning:** Do not use for hanging acoustical tee.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------|----------|
| 78101118090 | BA14 | T-Bar Support Clip | 100 |



Troffer Fasteners

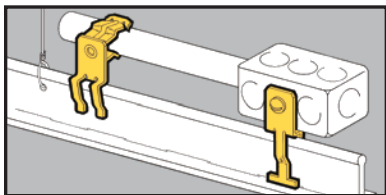


- Gives positive support for troffers and lay-in fixtures.
- Complies with NEC Article 410.16(C) for fixtures supported by suspended ceilings.
- Fits rectangular or round head T-Bars.
- Commonly known as "Hurricane Clip".

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--|----------|
| 78101118095 | BA15 | For Straight Lip or Uprturned Lip Fixtures | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Acoustical Tee



- A positive method for supporting vertical boxes, conduit or cable above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

Side Mount T-Bar Fasteners

BA5-4T



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101118095 | BA5-4T | With 1/4"-20 Thread Impression | 100 |

BG Series



BP Series

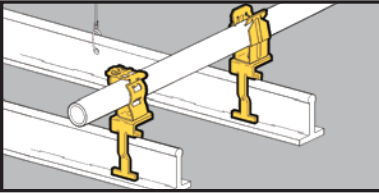


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-------------------|-----------------|----------|
| 78101118410 | BG-6-A5 * | 3/8" | 100 |
| 78101118465 | BG-8-12-A5 | 1/2", 3/4" | 100 |
| 78101118545 | BG-16-A5 | 1" | 100 |
| Patent #4958792 | | | |
| 78101119235 | BP-8-A5 | 1/2" EMT | 100 |
| 78101119335 | BP-12-A5 | 3/4" EMT | 100 |
| | | 1/2" IMC, Rigid | |
| 78101118545 | BP-16-A5 | 1" EMT | 100 |
| | | 3/4" IMC, Rigid | |

- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Acoustical Tee



- A positive method for supporting horizontal boxes or conduit above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

Top Mount T-Bar Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101118125 | BA6-4T | With 1/4"-20 Thread Impression | 100 |

BG Series



BP Series

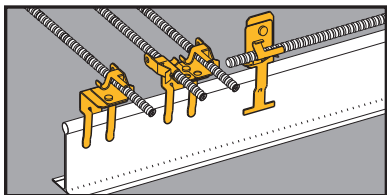


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-------------------|-----------------|----------|
| 78101188540 | BG-6-A6 * | 3/8" | 100 |
| 78101118470 | BG-8-12-A6 | 1/2", 3/4" | 100 |
| 78101118550 | BG-16-A6 | 1" | 100 |
| Patent #4958792 | | | |
| 78101119240 | BP-8-A6 | 1/2" EMT | 100 |
| 78101119340 | BP-12-A6 | 3/4" EMT | 100 |
| | | 1/2" IMC, Rigid | |
| 78101119435 | BP-16-A6 | 1" EMT | 100 |
| | | 3/4" IMC, Rigid | |

- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
 14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

Read safety/installation instruction sheets in packages before use.
 These products are designed for positioning only. No load rating.

Acoustical Tee



- A positive method for supporting cable or flexible conduit above T-Bar.
- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8" FMC.

Top Mount T-Bar Fasteners

BX4-A6



BX4M-A6



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101101220 | BX4-A6 | Single Runs | 100 |
| 78101101216 | BX4M-A6 | Double Runs | 100 |

Note: Fasteners will rotate 360°.

BX4-A5



BX4M-A5

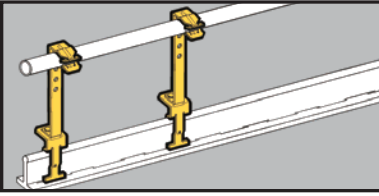


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101101187 | BX4-A5 | Single Runs | 100 |
| 78101101211 | BX4M-A5 | Double Runs | 100 |

Note: Fasteners will rotate 360°.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Acoustical Tee



- Supports conduit and electrical boxes above T-Bar.
- Height adjusts from 4¹/₄" to 7¹/₄".
- Conduit fasteners can be attached at ³/₄" increments.
- BX4M-A28 supports cable or FMC above T-Bar.

Support Fasteners

BA28



BX4M-A28



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|---|----------|
| 78101118115 | BA28 | 1/2" Holes Allow for Adjustment Between 4 ¹ / ₄ " and 7 ¹ / ₄ " at ³ / ₄ " Increments | 50 |
| 78101101211 | BX4M-A28 | Double Runs MC, AC, or FMC | 25 |

BP-12-A28

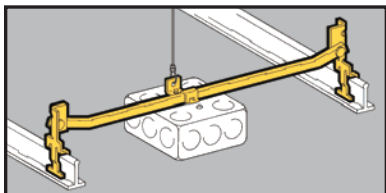


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|------------------|-----------------------------|----------|
| 78101119230 | BP-8-A28 | 1/2" EMT | 100 |
| 78101119330 | BP-12-A28 | 3/4" EMT 1/2" IMC, Rigid | 100 |
| 78101119425 | BP-16-A28 | 1" EMT 3/4" IMC, Rigid | 100 |

Note: Adjustable BP Conduit Fastener is attached with screw in 7¹/₄" top hole position.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Acoustical Tee



Electrical Box T-Bar Fasteners



- See BA50 for a stronger, more cost effective solution.
- Supports octagonal or square boxes.
- Allows for flush mounting or $\frac{3}{4}$ " offset for plaster ring.
- One BB27 box mounting clip with screw included with each hanger.
- Load Capacity: 20 lbs.
- For additional support, attach dropwire to BB27 box mounting clip.
- **Warning:** Do not use for hanging acoustical tee.

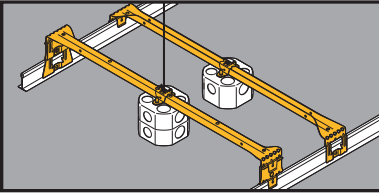
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101118080 | BA12 | Box Hanger 24" Span | 50 |
| 78101118082 | BA12-12 | Box Hanger 12" Span | 50 |
| 78101118085 | BA120 | Box Hanger 20" Span | 50 |
| 78101118087 | BA130 | Box Hanger 30" Span | 50 |



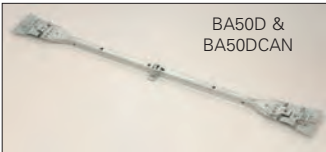
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|---|--|----------|
| 78101118170 | BB27 | Box Mounting Clip (with Screw) | 100 |
| 78101101673 | SRHMS$\frac{1}{4}$x$\frac{3}{8}$ | $\frac{1}{4}$ "-20 x $\frac{3}{8}$ " Slotted Round Head Machine Screw | 50 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



Heavy Duty Electrical Box Hanger



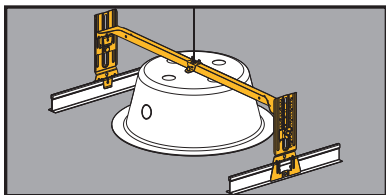
- Supports octagonal or square boxes on 24" span.
- Bendable ends mount 1 1/2" or 2 1/8" deep boxes without tools.
- Self-centering feature positions box on center.
- Includes BA50C4T Box Mounting Clip.
- Ultimate Static Load Capacity: 50 Lbs. (without dedicated dropwire)
- Static Load Capacity: 70 Lbs. (with dedicated dropwire) 35 Lbs. Canada
- Finish: Pre-galvanized
- See Ruff-IN™ brochure for pre-fab box assemblies.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-------------------|--|----------|
| 78101196490 | BA50 | Box Hanger | 25 |
| 78205135905 | BA50CAN * | Box Hanger | 25 |
| 78101196491 | BA50D | Box Hanger for Box with 1 1/2" Extension | 25 |
| 78205135906 | BA50DCAN * | Box Hanger Box with 1 1/2" Extension | 25 |
| 78205136570 | BA50C4T | Box Mounting Clip with Hardware | 25 |
| 78205136571 | BA50C3T * | Box Mounting Clip with Hardware | 25 |
| 78101196489 | BA50E | Extender Brackets with Hardware | 10 pair |

* Canada Only

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



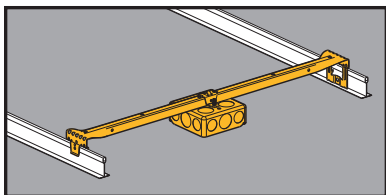
- Adjustable box support for suspended ceilings.
- Accommodates heights up to 8³/₄".
- Integral ruler enables height adjustments without measuring.

Adjustable Box Support



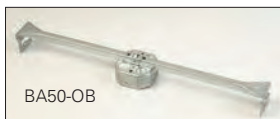
- Ideal for installation of speaker cases, emergency light fixtures, etc. in suspended ceilings.
- Static Load Capacity:
25 Lbs. without dedicated dropwire
70 Lbs. with dedicated dropwire
35 Lbs. (Canada) with dedicated dropwire
- See Ruff-IN™ brochure for pre-fab box assemblies.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------------|----------|
| 78205118460 | BA50A | Adjustable Box Hanger T-Bar | 10 |



- Pre-assembled T-Bar fasteners speed installation.
- Boxes have 1/2" and 3/4" knockouts.
- Loading not to exceed 50 lbs. in U.S.A. without independent support.
35 Lbs. in Canada
- 24" span

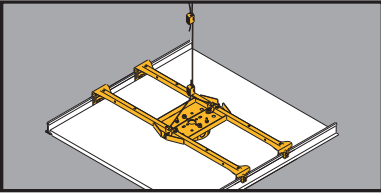
Electrical Box T-Bar Fasteners



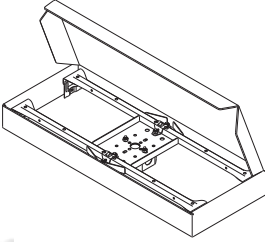
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-------------------|--|----------|
| 78205124855 | BA50-OB-24 | 1 ¹ / ₂ " Deep Box to T-Bar Fastener | 10 |
| 78205124856 | BA50-OB-34 | 2 ¹ / ₈ " Deep Box to T-Bar Fastener | 10 |
| 78205124857 | BA50-SB-24 | 1 ¹ / ₂ " Deep Box to T-Bar Fastener | 10 |
| 78205150954 | BA50-SB-34 | 2 ¹ / ₈ " Deep Box to T-Bar Fastener | 10 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee

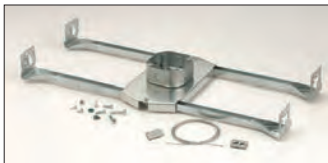
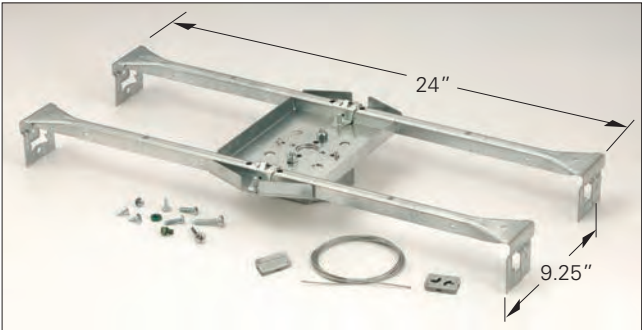


RediMount™ Fan Hanger



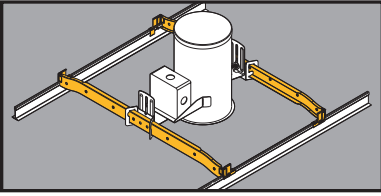
- Pre-assembled fan/ fixture hanger installs on T-Bar in less than 30 seconds.
- Positions and secures fans and fixtures in suspended ceilings.
- Includes Kwik-Wire™ cable and clamps which attach to mounting clips for easy installation.
- Recommended for use in seismic areas.
- UL Listed for fan support up to 70 lbs. or fixture support up to 90 lbs. 35 Lbs. Canada
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101196492 | BA50F | Fan/Fixture Hanger Includes 4" x 11/2" Deep Octagon Box | 1 |



Read safety/installation instruction sheets in packages before use.

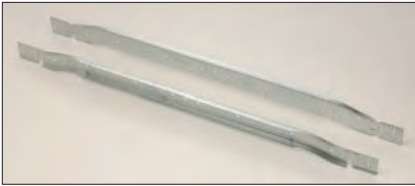
Acoustical Tee



QuikFix™ Fastening System



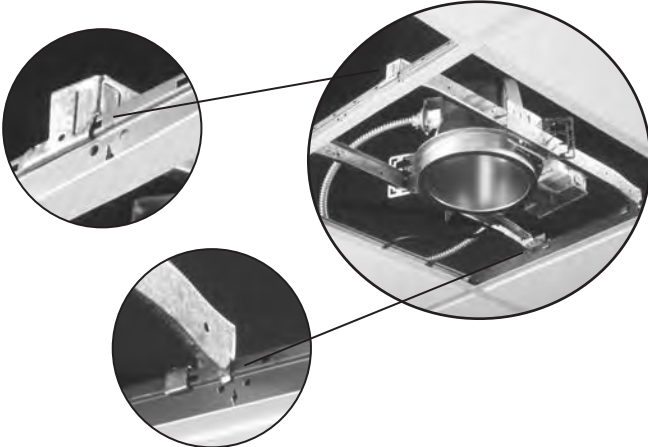
- New QuikFix™ Fastening System mounts spec grade downlights 50% faster than “wire bound” installation methods.
- QuikFix™ System is pre-sized for 24" spacing.
- No tools required.
- Recommended for use in seismic areas.
- UL listed for fixture support up to 50 lbs.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205199873 | BA40 | Fixture Bar | 20 pair |

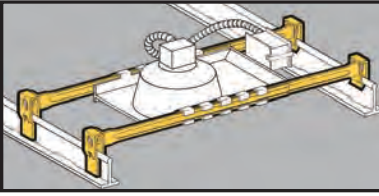
Patent # 6286265

- Innovative design features offset bar hangers with integral locking tabs that secure downlights to T-Bar and prevent lifting or sliding.



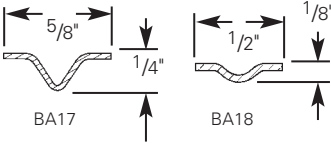
Acoustical Tee

Acoustical Tee

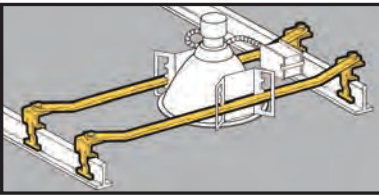


- Adjustable span from 20" to 30".
- Fits horizontal and vertical flanges.
- Fixture position is adjustable.
- No center clips or tools required.
- One set completes one fixture installation (four bars per set).

Light Fixture T-Bar Fasteners



| UPC/Part Number | Catalog Number | "High Hat" Fixtures | Box Qty. |
|-----------------|-----------------------------|---|----------|
| 78101118100 | BA17 (Wide Bar) | CAPRI ¹ R-9X, R-10X CAPRI ¹ R-10X CAPRI ¹ PR-751CX HALO ² H7, HALO ² H17 JUNO ³ AP, APT JUNO ³ IC, ICT, J, SC, TC THOMAS ⁴ RI-C | 10 sets |
| 78101118105 | BA18 (Narrow Bar) | CAPRI ¹ HSG LIGHTOLIER ⁵ 711 | 10 sets |



- Fixture position is adjustable within the span of the hanger.
- Fixed span of 24 inches for T-Bar applications.
- Requires only a screwdriver to install.
- One set completes one fixture installation (four bars per set).

Light Fixture T-Bar Fasteners



| UPC/Part Number | Catalog Number | "High Hat" Fixtures | Box Qty. |
|-----------------|---------------------------|--|----------|
| 78101118110 | BA20 (Wide Bar) | Fits LIGHTOLIER ⁵ CALCULITE ⁵ Fixtures | 10 sets |

1. CAPRI is a mark used by Thomas Industries, Inc., Louisville, KY.
 2. HALO[®] is the registered trademark of Cooper Industries, Elk Grove, IL.
 3. JUNO[®] is the registered trademark of JUNO Lighting, Inc., Morton Grove, IL.
 4. THOMAS[®] is the registered trademark of Thomas Industries, Inc., Louisville, KY.
 5. LIGHTOLIER[®] and CALCULITE[®] are the registered trademarks of Lightolier, Inc., Secaucus, NJ.

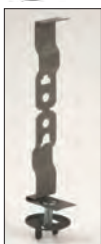
Read safety/installation instruction sheets in packages before use.

Acoustical Tee



- Allows for independent suspension of fixtures.
- Fits most acoustical T-Bars.
- BA-4-WN wing nut included with all 1/4"-20 suspension hangers.
- Static Load Capacity: 65 Lbs.

Suspension Fasteners



BA1



BA1-T



BA1-T-BN

| UPC/Part Number | Catalog Number | T-Bar Size | Stud Size | Box Qty. |
|-----------------|-----------------|------------|--------------------------------|----------|
| 78101118065 | BA1 | 15/16" | 1/4"-20 x 5/8" | 100 |
| 78101118070 | BA1-24 | 15/16" | 1/4"-20 x 1 1/2" | 100 |
| 78101118075 | BA1-32 | 15/16" | 1/4"-20 x 2" | 100 |
| 78101102891 | BA1-T | 15/16" | #8-32 x 5/8" with Pal Nut | 100 |
| 78101102897 | BA1-T-BN | 15/16" | #8-32 x 5/8" with Brass Nut | 100 |

Acoustical Tee

BA1-9

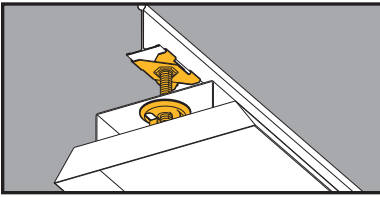


BA1-95



| UPC/Part Number | Catalog Number | T-Bar Size | Stud Size | Box Qty. |
|-----------------|----------------|-------------------|----------------|----------|
| 78205125585 | BA1-9 | 9/16" | 1/4"-20 x 5/8" | 100 |
| 78205125587 | BA1-95 | 9/16" & 15/16" | 1/4"-20 x 5/8" | 100 |

Acoustical Tee

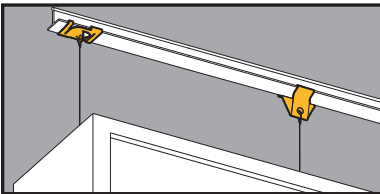


T-Bar Scissor Fasteners

- Supports electrical fixtures from standard $1\frac{5}{16}$ " T-Bars.
- BA-4-WN wing nut included.
- $\frac{1}{4}$ "-20 stud available in varying lengths.
- Static Load Capacity: 50 Lbs.



| UPC/Part Number | Catalog Number | Stud Length | Box Qty. |
|-----------------|--------------------|------------------|----------|
| 78101104258 | BAX-4-16 | $\frac{5}{8}$ " | 100 |
| 78101104262 | BAX-4-16-24 | $1\frac{1}{2}$ " | 100 |
| 78101104263 | BAX-4-16-32 | 2" | 100 |
| 78101104264 | BAX-4-16-48 | 3" | 100 |



Sign Hangers

- BA-4-16-H supports signs from $1\frac{5}{16}$ " T-Bar.
- BA-4-16-H1 supports signs from $\frac{9}{16}$ " or $1\frac{5}{16}$ " T-Bar.
- Static Load Capacity: 40 Lbs.



BA-4-16-H

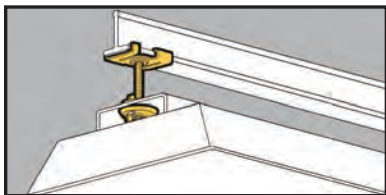


BA-4-16-H1

| UPC/Part Number | Catalog Number | Stud Length | Box Qty. |
|-----------------|-------------------|-------------------------------------|----------|
| 78101118040 | BA-4-16-H | Sign Hanger with White Finish | 100 |
| 78101104449 | BA-4-16-H1 | Sign Hanger with Zinc Plated Finish | 100 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



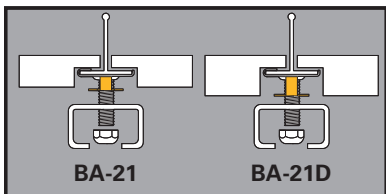
- Supports electrical fixtures from 15/16" T-Bar.
- 1/4"-20 stud available in varying lengths.
- Includes BA-4-WN wing nut with impression.
- Static Load Capacity:
BA4-16 Series = 50 lbs.
BA4-WN Series = 100 lbs.

15/16" Twist Fasteners



BA-4-WN

| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|-------------------|--------|-------------|----------|
| 78101118020 | BA-4-16 | Black | 5/8" | 100 |
| 78101118055 | BA-4-16-W | White | 5/8" | 100 |
| 78101118025 | BA-4-16-24 | White | 1 1/2" | 100 |
| 78101118030 | BA-4-16-32 | White | 2" | 100 |
| 78101118035 | BA-4-16-48 | White | 3" | 100 |
| 78101118060 | BA-4-WN | Black | | 100 |



- T-Bar spacer provides flush mounting surface for tegular tile installations.
- Spacer must be used in combination with B-Line's BA-4-16 or BA-2-16 series fasteners.
- Finish: Zinc Plated

T-Bar Spacers

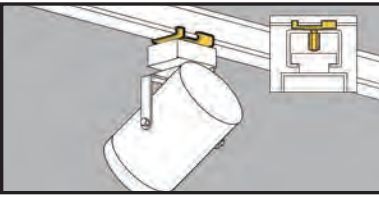


BA-21

BA-21D

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101195575 | BA-21 | 1/4" Spacer | 100 |
| 78101199567 | BA-21D | 3/8" Spacer | 100 |

Acoustical Tee



- Supports electrical fixtures from 15/16" T-Bar.
- #8-32 stud available in varying lengths.
- Static Load Capacity: 25 Lbs.

15/16" Twist Fasteners



| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|--------------------|--------|--------------------|----------|
| 78101118000 | BA-2-16 | Black | 5/8" with Pal Nut | 100 |
| 78101104259 | BA-2-16-7 | Black | 7/16" with Pal Nut | 100 |
| 78101118010 | BA-2-16-W | White | 5/8" with Pal Nut | 100 |
| 78101104261 | BA-2-16-7-W | White | 7/16" with Pal Nut | 100 |

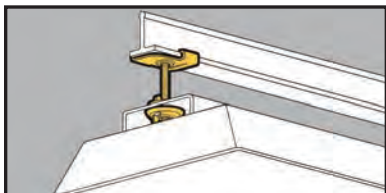


| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|----------------------|--------|----------------------|----------|
| 78101118015 | BA-2-16-BN | Black | 5/8" with Brass Nut | 100 |
| 78101104260 | BA-2-16-7-BN | Black | 7/16" with Brass Nut | 100 |
| 78101118015 | BA-2-16-WBN | White | 5/8" with Brass Nut | 100 |
| 78101199566 | BA-2-16-7-WBN | White | 7/16" with Brass Nut | 100 |

Acoustical Tee

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



- Supports electrical fixtures from 9/16" T-Bar.
- Stud size: 1/4"-20 x 5/8".
- Static Load Capacity: 40 Lbs.

9/16" Twist Fasteners



| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|-----------------|--------|-------------|----------|
| 78101103458 | BA-4-9 | Black | 5/8" | 100 |
| 78101103461 | BA-4-9-W | White | 5/8" | 100 |



- Supports electrical fixtures and track lighting from 9/16" T-Bar.
- Stud size: #8-32 x length.
- Static Load Capacity: 25 Lbs.

9/16" Twist Fasteners

BA-2-9 Series with Pal Nut



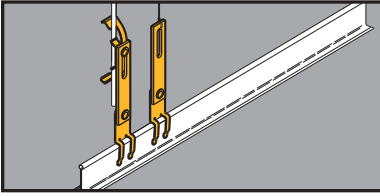
BA-2-9-BN Series with Brass Nut



| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|--------------------|--------|-------------|----------|
| 78101103467 | BA-2-9 | Black | 5/8" | 100 |
| 78101103466 | BA-2-9-7 | Black | 7/16" | 100 |
| 78101103459 | BA-2-9-W | White | 5/8" | 100 |
| 78101103465 | BA-2-9-BN | Black | 5/8" | 100 |
| 78101103464 | BA-2-9-7-BN | Black | 7/16" | 100 |
| 78101103460 | BA-2-9-WBN | White | 5/8" | 100 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



Drop Wire/Rod Securing Clip

- Secures independent support wires to ceiling grid as required by NEC Article 300.11.
- Slotted design permits adjustment when securing rods.
- Bright yellow color, Per NEC 300.11 (A), is easily identified by inspectors.



BA-311



BA-311-W2 Shown

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|----------------------------|----------|
| 78101199569 | BA311 | #12 thru #8 Wire | 100 |
| 78101199570 | BA311-W2 | #12 thru 1/4" Plain or | 100 |
| 78101199571 | BA311-W6 | 3/8" Plain or Threaded Rod | 100 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



Seismic Fixture Clamps

- BA-SFC Series provides seismic restraint for light fixtures within a suspended ceiling.
- BA-SFC reduces labor by attaching light fixtures to the T-bar frame and eliminating extra drop wires or chains.
- Provides positive attachment of fixtures to ceiling grid members, in compliance with ICBO Acceptance Criteria 184 (AC 184).
- Satisfies NEC 410.16(C) which requires positive attachment for secure fastening of luminaries.
- Load rating: 200 lbs.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-------------------|---|----------------------------|
| 78205145911 | BA-SFC | Seismic Fixture Clamp attaches one standard 2' x 4' light fixture to T-Bar ceiling | 25 sets (4 clamps per set) |
| 78205145912 | BA-SFC-E* | For attachment of two standard 2' x 4' light fixtures end-to-end onto T-Bar ceiling | 25 sets (4 clamps per set) |
| 78205145913 | BA-SFC-S* | For attachment of two standard 2' x 4' light fixtures side-by-side onto T-Bar ceiling | 25 sets (4 clamps per set) |
| 78205145914 | BA-SFC-CF* | For attachment of standard 2' x 2' light fixtures onto T-Bar | 50 sets (2 clamps per set) |
| 78205145915 | BA-SFC-CFS | Seismic Fixture Clamp for reinforcement of main runner connection points | 50 sets (2 clamps per set) |

* BASFC is required to complete installation.

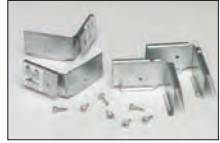
Seismic Fixture Clamps cont.



BA-SFC



BA-SFC-E



BA-SFC-S

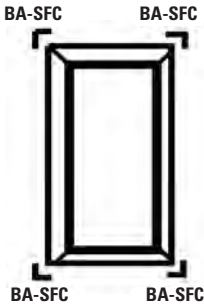


BA-SFC-CF



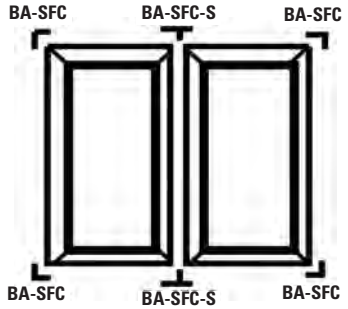
BA-SFC-CFS

Single Fixture
Installation



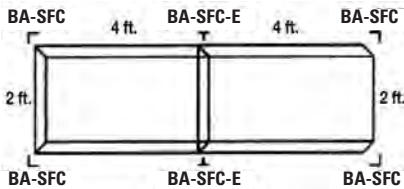
Parts Required:
1 pc. BA-SFC Installation Kit

Two Fixtures (Side by Side)



Parts Required:
1 pc. BA-SFC Installation Kit
1 pc. BA-SFC-S Installation Kit

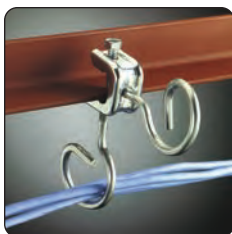
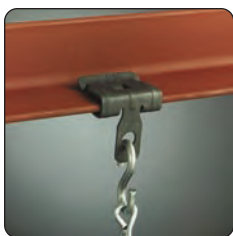
Two Fixtures (End to End)



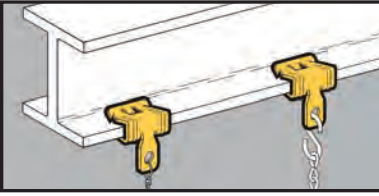
Parts Required:
1 pc. BA-SFC Installation Kit
1 pc. BA-SFC-E Installation Kit



Beams



Beams



- Permits fast and easy installation on bulb tees and beams.
- Clearance hole for 1/4" bolt in tab.
- Simply installed with a hammer.

Flange Beam Fasteners



| UPC/Part Number | Catalog Number | Flange Thickness | Static Load Cap. | Box Qty. |
|-----------------|----------------|------------------|------------------|----------|
| 78101118290 | BE-1-2 | 3/32" - 9/64" | 160 lbs. | 100 |



BE-2-4

| UPC/Part Number | Catalog Number | Flange Thickness | Static Load Cap. | Box Qty. |
|-----------------|----------------|------------------|------------------|----------|
| 78101118295 | BE-2-4 | 1/8" - 1/4" | 200 lbs. | 100 |
| 78101118300 | BE-5-8 | 5/16" - 1/2" | 200 lbs. | 100 |
| 78101118305 | BE-9-12 | 9/16" - 3/4" | 200 lbs. | 100 |

Read safety/installation instruction sheets in packages before use.

Beams



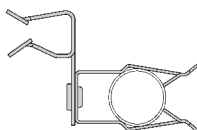
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

Push-Type Conduit To Beam Fasteners



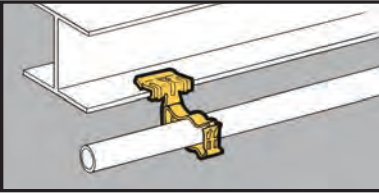
| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|-----------------------------|------------------|----------|
| 78101119275 | BP-8-E-2-4 | 1/2" EMT | 1/8" - 1/4" | 100 |
| 78101119280 | BP-8-E-5-8 | 1/2" EMT | 5/16" - 1/2" | 100 |
| 78101119285 | BP-8-E-9-12 | 1/2" EMT | 9/16" - 3/4" | 100 |
| 78101119375 | BP-12-E-2-4 | 1/2" EMT 1/2" IMC, Rigid | 1/8" - 1/4" | 100 |
| 78101119380 | BP-12-E-5-8 | 1/2" EMT 1/2" IMC, Rigid | 5/16" - 1/2" | 100 |
| 78101119385 | BP-12-E-9-12 | 1/2" EMT 1/2" IMC, Rigid | 9/16" - 3/4" | 100 |
| 78101119465 | BP-16-E-2-4 | 1" EMT 3/4" IMC, Rigid | 1/8" - 1/4" | 100 |
| 78101119470 | BP-16-E-5-8 | 1" EMT 3/4" IMC, Rigid | 5/16" - 1/2" | 100 |
| 78101119475 | BP-16-E-9-12 | 1" EMT 3/4" IMC, Rigid | 9/16" - 3/4" | 100 |

**Ultimate
Static Load
Capacity**



15 Lbs.





- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

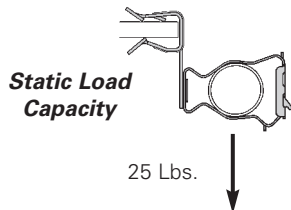
Guide-Rite™ Conduit To Beam Fasteners



| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|-----------------------|--------------|------------------|----------|
| 78101118430 | BG-6-E-2-4 | 3/8" | 1/8" - 1/4" | 100 |
| 78101118435 | BG-6-E-5-8 | 3/8" | 5/16" - 1/2" | 100 |
| 78101118440 | BG-6-E-9-12 | 3/8" | 9/16" - 3/4" | 100 |
| 78101118505 | BG-8-12-E-2-4 | 1/2", 3/4" | 1/8" - 1/4" | 100 |
| 78101118510 | BG-8-12-E-5-8 | 1/2", 3/4" | 5/16" - 1/2" | 100 |
| 78101118515 | BG-8-12-E-9-12 | 1/2", 3/4" | 9/16" - 3/4" | 100 |
| 78101118575 | BG-16-E-2-4 | 1" | 1/8" - 1/4" | 100 |
| 78101118580 | BG-16-E-5-8 | 1" | 5/16" - 1/2" | 100 |
| 78101118585 | BG-16-E-9-12 | 1" | 9/16" - 3/4" | 100 |
| 78101118660 | BG-20-E-2-4 | 1 1/4" | 1/8" - 1/4" | 100 |
| 78101118665 | BG-20-E-5-8 | 1 1/4" | 5/16" - 1/2" | 100 |
| 78101118670 | BG-20-E-9-12 | 1 1/4" | 9/16" - 3/4" | 100 |
| 78101118705 | BG-24-E-2-4 | 1 1/2" | 1/8" - 1/4" | 50 |
| 78101118710 | BG-24-E-5-8 | 1 1/2" | 5/16" - 1/2" | 50 |
| 78101118715 | BG-24-E-9-12 | 1 1/2" | 9/16" - 3/4" | 50 |
| 78101118745 | BG-32-E-2-4 | 2" | 1/8" - 1/4" | 50 |
| 78101118750 | BG-32-E-5-8 | 2" | 5/16" - 1/2" | 50 |
| 78101118755 | BG-32-E-9-12 | 2" | 9/16" - 3/4" | 50 |

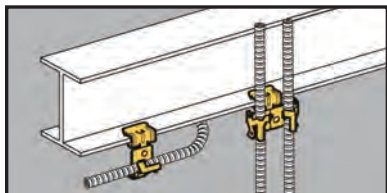
Patent #4958792

- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable
and 5/16 or 3/8 flexible conduit



Read safety/installation instruction sheets in packages before use.

Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

Cable To Beam Fasteners

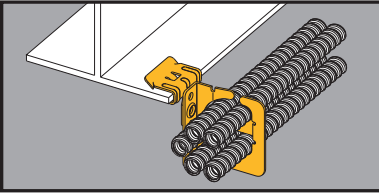


| UPC/Part Number | Catalog Number | Types Of Runs | Flange Thickness | Box Qty. |
|-----------------|-------------------|---------------|------------------|----------|
| 78101101192 | BX4-E-2-4 | Single | 1/8" - 1/4" | 100 |
| 78101101193 | BX4-E-5-8 | Single | 5/16" - 1/2" | 100 |
| 78101101194 | BX4-E-9-12 | Single | 9/16" - 3/4" | 100 |



| UPC/Part Number | Catalog Number | Types Of Runs | Flange Thickness | Box Qty. |
|-----------------|--------------------|---------------|------------------|----------|
| 78101101213 | BX4M-E-2-4 | Double | 1/8" - 1/4" | 100 |
| 78101101214 | BX4M-E-5-8 | Double | 5/16" - 1/2" | 100 |
| 78101101215 | BX4M-E-9-12 | Double | 5/16" - 3/4" | 100 |

Read safety/installation instruction sheets in packages before use.



MC/AC Cable Carrier to Beam Fastener

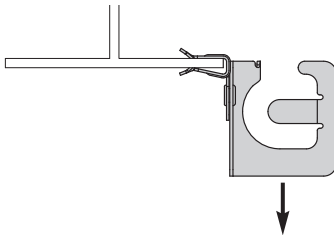


BRC5-2-E24



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|-------------------|------------------|----------|
| 78205144093 | BRC51-E12 | 3/32" - 9/64" | 25 |
| 78205144096 | BRC51-E24 | 1/8" - 1/4" | 25 |
| 78205144099 | BRC51-E58 | 5/16" - 1/2" | 25 |
| 78205144102 | BRC51-E912 | 9/16" - 3/4" | 25 |
| 78205144094 | BRC52-E12 | 3/32" - 9/64" | 25 |
| 78205144097 | BRC52-E24 | 1/8" - 1/4" | 25 |
| 78205144100 | BRC52-E58 | 5/16" - 1/2" | 25 |
| 78205144103 | BRC52-E912 | 9/16" - 3/4" | 25 |
| 78205144095 | BRC53-E12 | 3/32" - 9/64" | 25 |
| 78205144098 | BRC53-E24 | 1/8" - 1/4" | 25 |
| 78205144101 | BRC53-E58 | 5/16" - 1/2" | 25 |
| 78205144104 | BRC53-E912 | 9/16" - 3/4" | 25 |

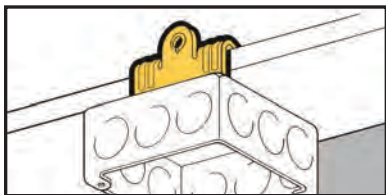


Static Load Capacity

50 Lbs.

Read safety/installation instruction sheets in packages before use.

Beams



- Suspend boxes or fixtures from beam flanges 1/8" to 3/4" thick.
- Provided with 1/4"-20 thread impression for quick and secure attachment.
- Simply installed with a hammer.

Universal Beam Fasteners

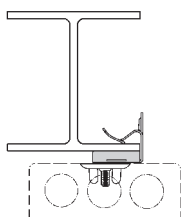
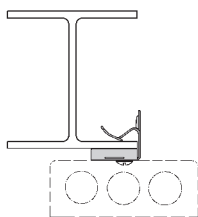


| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101119600 | BU-2-4 | 1/8" - 1/4" | 100 |
| 78101119605 | BU-5-8 | 5/16" - 1/2" | 100 |
| 78101119610 | BU-9-12 | 9/16" - 3/4" | 100 |

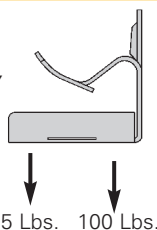


1/4"-20 x 3/8"
Staked Stud

| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|------------------|------------------|----------|
| 78101119615 | BU-2-4-S | 1/8" - 1/4" | 100 |
| 78101119620 | BU-5-8-S | 5/16" - 1/2" | 100 |
| 78101119625 | BU-9-12-S | 9/16" - 3/4" | 100 |

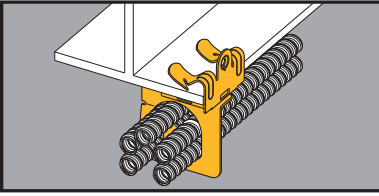


Static Load Capacity



Note: Indicated loads are static load capacity and should not be combined.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

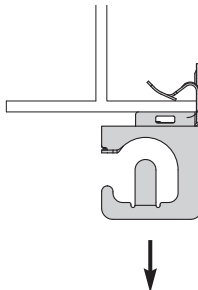


MC/AC Cable Carrier to Beam Fastener



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|-------------------|------------------|----------|
| 78205144066 | BRC51-U24 | 1/8" - 1/4" | 25 |
| 78205144069 | BRC51-U58 | 5/16" - 1/2" | 25 |
| 78205144072 | BRC51-U912 | 9/16" - 3/4" | 25 |
| 78205144067 | BRC52-U24 | 1/8" - 1/4" | 25 |
| 78205144070 | BRC52-U58 | 5/16" - 1/2" | 25 |
| 78205144073 | BRC52-U912 | 9/16" - 3/4" | 25 |
| 78205144068 | BRC53-U24 | 1/8" - 1/4" | 25 |
| 78205144071 | BRC53-U58 | 5/16" - 1/2" | 25 |
| 78205144074 | BRC53-U912 | 9/16" - 3/4" | 25 |

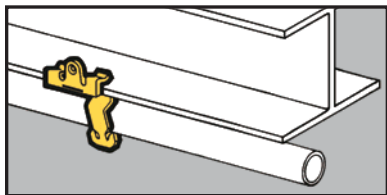


Static Load Capacity

75 Lbs.

Read safety/installation instruction sheets in packages before use.

Beams



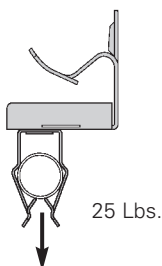
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

Push-Type Conduit To Beam Fasteners

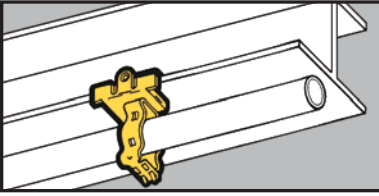


| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|-----------------------------|------------------|----------|
| 78101119310 | BP-8-U-2-4 | 1/2" EMT | 1/8" - 1/4" | 100 |
| 78101119315 | BP-8-U-5-8 | 1/2" EMT | 5/16" - 1/2" | 100 |
| 78101119320 | BP-8-U-9-12 | 1/2" EMT | 9/16" - 3/4" | 100 |
| 78101119405 | BP-12-U-2-4 | 3/4" EMT 1/2" IMC, Rigid | 1/8" - 1/4" | 100 |
| 78101119410 | BP-12-U-5-8 | 3/4" EMT 1/2" IMC, Rigid | 5/16" - 1/2" | 100 |
| 78101119415 | BP-12-U-9-12 | 3/4" EMT 1/2" IMC, Rigid | 9/16" - 3/4" | 100 |
| 78101119490 | BP-12-U-2-4 | 1" EMT 3/4" IMC, Rigid | 1/8" - 1/4" | 100 |
| 78101119495 | BP-12-U-5-8 | 1" EMT 3/4" IMC, Rigid | 5/16" - 1/2" | 100 |
| 78101119500 | BP-12-U-9-12 | 1" EMT 3/4" IMC, Rigid | 9/16" - 3/4" | 100 |

**Ultimate
Static Load
Capacity**



Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

Guide-Rite™ Conduit To Beam Fasteners

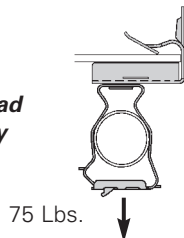


| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|-----------------------|--------------|------------------|----------|
| 78101118450 | BG-6-U-2-4 | 3/8" | 1/8" - 1/4" | 100 |
| 78101118455 | BG-6-U-5-8 | 3/8" | 5/16" - 1/2" | 100 |
| 78101118460 | BG-6-U-9-12 | 3/8" | 9/16" - 3/4" | 100 |
| 78101118525 | BG-8-12-U-2-4 | 1/2", 3/4" | 1/8" - 1/4" | 100 |
| 78101118530 | BG-8-12-U-5-8 | 1/2", 3/4" | 5/16" - 1/2" | 100 |
| 78101118535 | BG-8-12-U-9-12 | 1/2", 3/4" | 9/16" - 3/4" | 100 |
| 78101118625 | BG-16-U-2-4 | 1" | 1/8" - 1/4" | 100 |
| 78101118630 | BG-16-U-5-8 | 1" | 5/16" - 1/2" | 100 |
| 78101118635 | BG-16-U-9-12 | 1" | 9/16" - 3/4" | 100 |
| 78101118680 | BG-20-U-2-4 | 1 1/4" | 1/8" - 1/4" | 100 |
| 78101118685 | BG-20-U-5-8 | 1 1/4" | 5/16" - 1/2" | 100 |
| 78101118690 | BG-20-U-9-12 | 1 1/4" | 9/16" - 3/4" | 100 |
| 78101118720 | BG-24-U-2-4 | 1 1/2" | 1/8" - 1/4" | 50 |
| 78101118725 | BG-24-U-5-8 | 1 1/2" | 5/16" - 1/2" | 50 |
| 78101118730 | BG-24-U-9-12 | 1 1/2" | 9/16" - 3/4" | 50 |
| 78101118760 | BG-32-U-2-4 | 2" | 1/8" - 1/4" | 50 |
| 78101118765 | BG-32-U-5-8 | 2" | 5/16" - 1/2" | 50 |
| 78101118770 | BG-32-U-9-12 | 2" | 9/16" - 3/4" | 50 |

Patent #4958792

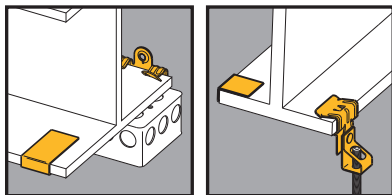
- * BG-6 will accept the following range $\varnothing.420$ - $\varnothing.675$:
14/2 thru 10/4 MC/AC cable
and 5/16 or 3/8 flexible conduit

**Static Load
Capacity**



Read safety/installation instruction sheets in packages before use.

Beams



- Anchor strap provides secure attachment to beam flanges.
- Suspends threaded rod from beam flanges.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

Beam Fasteners With Anchor Straps



Static Load Capacity

75 Lbs.



| UPC/Part Number | Catalog Number | Stud Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|----------------|------------------|----------|
| 78101104942 | BU-2-4-S-AS | 1/4"-20 x 3/8" | 1/8" - 1/4" | 50 |
| 78101104943 | BU-5-8-S-AS | 1/4"-20 x 3/8" | 5/16" - 1/2" | 50 |
| 78101104944 | BU-9-12-S-AS | 1/4"-20 x 3/8" | 9/16" - 3/4" | 50 |

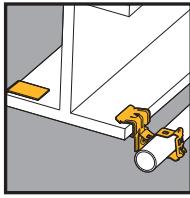
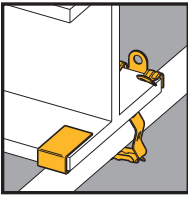


Static Load Capacity

160 Lbs.



| UPC/Part Number | Catalog Number | Threaded Rod Size | Flange Thickness | Box Qty. |
|-----------------|----------------------|-------------------|------------------|----------|
| 78101104948 | BH4-E-2-4-AS | 1/4"-20 | 1/8" - 1/4" | 50 |
| 78101104949 | BH4-E-5-8-AS | 1/4"-20 | 5/16" - 1/2" | 50 |
| 78101104950 | BH4-E-9-12-AS | 1/4"-20 | 9/16" - 3/4" | 50 |
| 78101104951 | BH6-E-2-4-AS | 3/8"-16 | 1/8" - 1/4" | 50 |
| 78101104952 | BH6-E-5-8-AS | 3/8"-16 | 5/16" - 1/2" | 50 |
| 78101104953 | BH6-E-9-12-AS | 3/8"-16 | 9/16" - 3/4" | 50 |



- Anchor strap provides secure attachment to beam flanges.
- Unique Guide-Rite™ Fastener provides for fast and easy installation.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

Conduit To Beam Fasteners With Anchor Straps



Static Load Capacity

75 Lbs.

| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|--------------------------|--------------|------------------|----------|
| 78101104966 | BG-8-12-U-2-4-AS | 1/2", 3/4" | 1/8" - 1/4" | 50 |
| 78101104967 | BG-8-12-U-5-8-AS | 1/2", 3/4" | 5/16" - 1/2" | 50 |
| 78101104968 | BG-8-12-U-9-12-AS | 1/2", 3/4" | 9/16" - 3/4" | 50 |
| 78101104969 | BG-16-U-2-4-AS | 1" | 1/8" - 1/4" | 50 |
| 78101104970 | BG-16-U-5-8-AS | 1" | 5/16" - 1/2" | 50 |
| 78101104971 | BG-16-U-9-12-AS | 1" | 9/16" - 3/4" | 50 |



Static Load Capacity

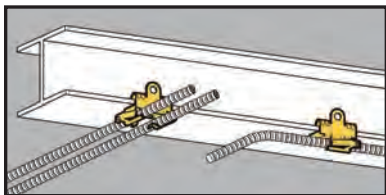
25 Lbs.



| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|--------------------------|--------------|------------------|----------|
| 78101104972 | BG-8-12-E-2-4-AS | 1/2", 3/4" | 1/8" - 1/4" | 50 |
| 78101104973 | BG-8-12-E-5-8-AS | 1/2", 3/4" | 5/16" - 1/2" | 50 |
| 78101104974 | BG-8-12-E-9-12-AS | 1/2", 3/4" | 9/16" - 3/4" | 50 |
| 78101104975 | BG-16-E-2-4-AS | 1" | 1/8" - 1/4" | 50 |
| 78101104976 | BG-16-E-5-8-AS | 1" | 5/16" - 1/2" | 50 |
| 78101104977 | BG-16-E-9-12-AS | 1" | 9/16" - 3/4" | 50 |

Read safety/installation instruction sheets in packages before use.

Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.

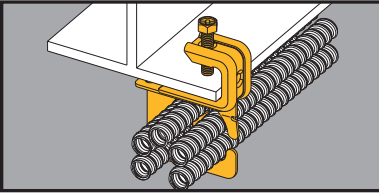
Cable To Beam Fasteners



| UPC/Part Number | Catalog Number | Description | Flange Thickness | Box Qty. |
|-----------------|-------------------|-------------|------------------|----------|
| 78101101197 | BX4-U-2-4 | Single Runs | 1/8" - 1/4" | 100 |
| 78101101198 | BX4-U-5-8 | Single Runs | 5/16" - 1/2" | 100 |
| 78101101199 | BX4-U-9-12 | Single Runs | 9/16" - 3/4" | 100 |



| UPC/Part Number | Catalog Number | Description | Flange Thickness | Box Qty. |
|-----------------|--------------------|-------------|------------------|----------|
| 78101101206 | BX4M-U-2-4 | Double Runs | 1/8" - 1/4" | 100 |
| 78101101207 | BX4M-U-5-8 | Double Runs | 5/16" - 1/2" | 100 |
| 78101101208 | BX4M-U-9-12 | Double Runs | 9/16" - 3/4" | 100 |



MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges from 1/8" thru 5/8" thick.
- Load Capacity: 50 lbs.



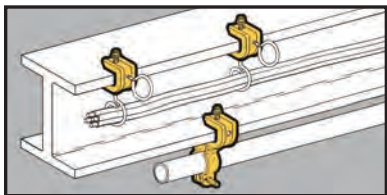
BRC5-1-C442



| UPC/Part Number | Catalog Number | Cable Diameter & Number of Runs | Box Qty. |
|-----------------|-------------------|---------------------------------|----------|
| 78205144087 | BRC51-C442 | .430" to .560" Up to 4 Runs | 25 |
| 78205144088 | BRC52-C442 | .430" to .560" Up to 9 Runs | 25 |
| 78205144089 | BRC53-C442 | .560" to .690" Up to 7 Runs | 25 |

Read safety/installation instruction sheets in packages before use.

Beams



- BC442 fits beam flanges 1/8" to 5/8". BC442-6 fits beam flanges up to 3/4".
- Finish: Zinc Plated
- Static Load Capacity: BC442 = 100 Lbs. BC442-6 = 200 Lbs.

Beam Fasteners

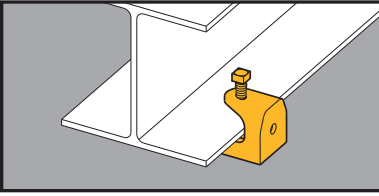


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101118278 | BC442 | Accepts 1/4"-20 Threaded Rod or 1/4"-20 Threaded Bridle Rings | 50 |
| 78101104283 | BC442-6 | Accepts 3/8"-16 Threaded Rod | 25 |



| UPC/Part Number | Catalog Number | Conduit Size | | Box Qty. |
|-----------------|--------------------|--------------|--------|----------|
| | | Rigid | EMT | |
| 78101119850 | BL1400-C442 | 1/2" | 1/2" | 50 |
| 78101119851 | BL1410-C442 | 3/4" | 3/4" | 50 |
| 78101119852 | BL1420-C442 | 1" | 1" | 50 |
| 78101119853 | BL1425-C442 | – | 1 1/4" | 50 |
| 78101119854 | BL1430-C442 | 1 1/4" | 1 1/2" | 50 |
| 78101119855 | BL1440-C442 | 1 1/2" | – | 25 |
| 78101119856 | BL1450-C442 | 2" | 2" | 25 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



- Can be used with 1/4"-20 and 3/8"-16 threaded rod or bridle rings.
- Fits beam flanges through 1/2" thick.
- Safety Factor of 5.
- Finish: Zinc-Plated

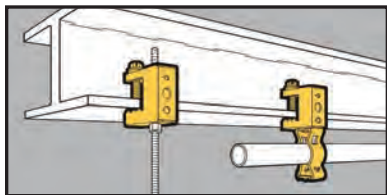
Beam Fasteners



| UPC/Part Number | Catalog Number | Rod Size | Static Load Cap. | Box Qty. |
|-----------------|------------------|----------|------------------|----------|
| 78101155333 | B444-1/4 | 1/4"-20 | 150 lbs. | 50 |
| 78101155333 | B444-5/16 | 5/16"-18 | 150 lbs. | 50 |
| 78101155333 | B444-3/8 | 3/8"-16 | 150 lbs. | 50 |

Read safety/installation instruction sheets in packages before use.

Beams



- Fits beam flanges thru 1/2" thick.
- Accepts "S" hooks, 1/4" and 3/8" threaded rod, 1/4"-20 or #10-24 threaded bridle rings.
- Supports conduit and electrical boxes.

Conduit To Beam Fasteners



| UPC/Part Number | Catalog Number | Flange Thickness | Static Load Cap. | Box Qty. |
|-----------------|----------------|------------------|------------------|----------|
| 78101118275 | BC1 | Thru 1/42 | 100 lbs. | 100 |

Guide-Rite™
Fastener



| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Static Load Cap. | Box Qty. |
|-----------------|-------------------|--------------------------|------------------|----------|
| 78101118490 | BG-8-12-C2 | 1/2", 3/4" | 100 lbs. | 100 |
| 78101118570 | BG-16-C2 | 1" | 100 lbs. | 100 |
| 78101118655 | BG-20-C2 | 1 1/4" | 100 lbs. | 100 |
| 78101118700 | BG-24-C2 | 1 1/2" | 100 lbs. | 100 |
| 78101118740 | BG-32-C2 | 2" | 100 lbs. | 100 |

Read safety/installation instruction sheets in packages before use.

Conduit To Beam Fasteners



Guide-Rite™
Fastener



| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Static Load Cap. | Box Qty. |
|-----------------|-------------------|--------------------------|------------------|----------|
| 78101118485 | BG-8-12-C1 | 1/2", 3/4" | 25 lbs. | 100 |
| 78101118565 | BG-16-C1 | 1" | 25 lbs. | 100 |
| 78101118650 | BG-20-C1 | 1 1/4" | 25 lbs. | 100 |
| 78101118695 | BG-24-C1 | 1 1/2" | 25 lbs. | 50 |
| 78101118735 | BG-32-C1 | 2" | 25 lbs. | 50 |



Push-Type

| UPC/Part Number | Catalog Number | Conduit Size | Ultimate Static Load Cap. | Box Qty. |
|-----------------|-----------------|-----------------------------|---------------------------|----------|
| 78101119260 | BP-8-C2 | 1/2" EMT | 25 lbs. | 100 |
| 78101119360 | BP-12-C2 | 3/4" EMT 1/2" IMC, Rigid | 25 lbs. | 100 |
| 78101119455 | BP-16-C2 | 1" EMT 3/4" IMC, Rigid | 25 lbs. | 100 |

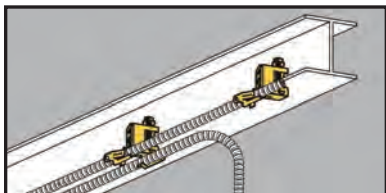


Push-Type

| UPC/Part Number | Catalog Number | Conduit Size | Ultimate Static Load Cap. | Box Qty. |
|-----------------|-----------------|-----------------------------|---------------------------|----------|
| 78101119255 | BP-8-C1 | 1/2" EMT | 25 lbs. | 100 |
| 78101119355 | BP-12-C1 | 3/4" EMT 1/2" IMC, Rigid | 25 lbs. | 100 |
| 78101119450 | BP-16-C1 | 1" EMT 3/4" IMC, Rigid | 25 lbs. | 100 |

Read safety/installation instruction sheets in packages before use.

Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

Cable To Beam Fasteners



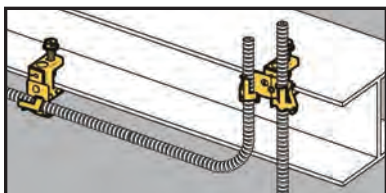
BX4-C2



BX4M-C2



| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101101190 | BX4-C2 | Single Runs | 100 |
| 78101101210 | BX4M-C2 | Double Runs | 100 |



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

Cable To Beam Fasteners



BX4-C1

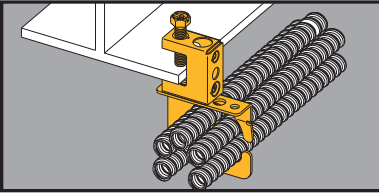


BX4M-C1



| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101101191 | BX4-C1 | Single Runs | 100 |
| 78101101209 | BX4M-C1 | Double Runs | 100 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges thru 1/2" thick.
- Load Capacity: 50 lbs.



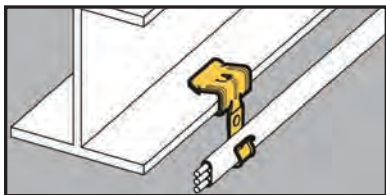
BRC5-x-C2



| UPC/Part Number | Catalog Number | Cable Diameter & Number of Runs | Box Qty. |
|-----------------|-----------------|---------------------------------|----------|
| 78205144090 | BRC51-C2 | .430" to .560" Up to 4 Runs | 25 |
| 78205144091 | BRC52-C2 | .430" to .560" Up to 9 Runs | 25 |
| 78205144092 | BRC53-C2 | .560" to .690" Up to 7 Runs | 25 |

Read safety/installation instruction sheets in packages before use.

Beams

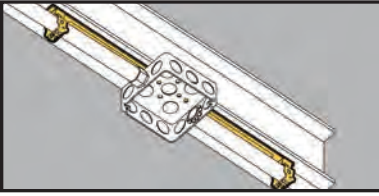


- Attaches Type NM cable to beam flanges 1/8" to 1/2" thick.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- Simply installed with a hammer.

Cable To Beam Fasteners



| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|--------------------|------------------|----------|
| 78101103550 | BRC3-E-2-4 | 1/8" to 1/4" | 100 |
| 78101103551 | BRC3-E-5-8 | 5/16" to 1/2" | 100 |
| 78101103552 | BRC3-E-9-12 | 9/16" to 3/4" | 100 |

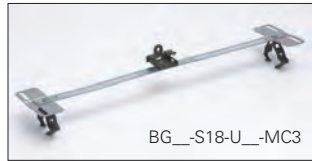


Guide-Rite™ Conduit & Box Support Fasteners



- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|----------------------|--------------|------------------|----------|
| 78101103583 | BG6-S18-U24 * | 3/8" | 1/8" to 1/4" | 25 |
| 78101103584 | BG6-S18-U58 * | 3/8" | 5/16" to 1/2" | 25 |
| 78101103579 | BG812-S18-U24 | 1/2", 3/4" | 1/8" to 1/4" | 25 |
| 78101103580 | BG812-S18-U58 | 1/2", 3/4" | 5/16" to 1/2" | 25 |
| 78101103581 | BG16-S18-U24 | 1" | 1/8" to 1/4" | 25 |
| 78101103582 | BG16-S18-U58 | 1" | 5/16" to 1/2" | 25 |

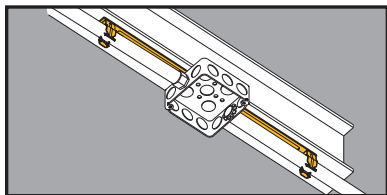
Patent #4958792

With Multiple Conduit Plate

| | | | | |
|-------------|--------------------------|------------|---------------|----|
| 78205152813 | BG6-S18-U24-MC3 * | 3/8" | 1/8" to 1/4" | 25 |
| 78205152814 | BG6-S18-U58-MC3 * | 3/8" | 5/16" to 1/2" | 25 |
| 78205152815 | BG812-S18-U24-MC3 | 1/2", 3/4" | 1/8" to 1/4" | 25 |
| 78205152816 | BG812-S18-U58-MC3 | 1/2", 3/4" | 5/16" to 1/2" | 25 |
| 78205152817 | BG16-S18-U24-MC3 | 1" | 1/8" to 1/4" | 25 |
| 78205152823 | BG16-S18-U58-MC3 | 1" | 5/16" to 1/2" | 25 |

- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
1 1/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

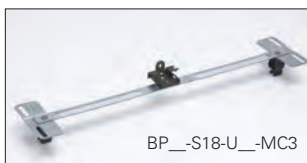
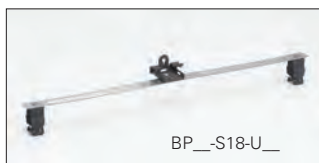
Beams



Push-Type Conduit & Box Support Fasteners

- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



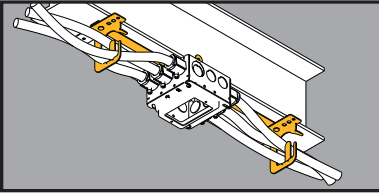
| UPC/Part Number | Catalog Number | Conduit Size EMT, IMC, Rigid | Flange Thickness | Box Qty. |
|-----------------|---------------------|------------------------------|------------------|----------|
| 78205123635 | BP8-S18-U24 | 3/8" | 1/8" to 1/4" | 25 |
| 78205123638 | BP8-S18-U58 | 3/8" | 5/16" to 1/2" | 25 |
| 78205123636 | BP12-S18-U24 | 1/2", 3/4" | 1/8" to 1/4" | 25 |
| 78205123639 | BP12-S18-U58 | 1/2", 3/4" | 5/16" to 1/2" | 25 |
| 78205123637 | BP16-S18-U24 | 1" | 1/8" to 1/4" | 25 |
| 78205123640 | BP16-S18-U58 | 1" | 5/16" to 1/2" | 25 |

Patent #4958792

With Multiple Conduit Plate

| | | | | |
|-------------|-------------------------|------------|---------------|----|
| 78205152824 | BP8-S18-U24-MC3 | 3/8" | 1/8" to 1/4" | 25 |
| 78205152825 | BP8-S18-U58-MC3 | 3/8" | 5/16" to 1/2" | 25 |
| 78205152827 | BP12-S18-U24-MC3 | 1/2", 3/4" | 1/8" to 1/4" | 25 |
| 78205152828 | BP12-S18-U58-MC3 | 1/2", 3/4" | 5/16" to 1/2" | 25 |
| 78205152825 | BP16-S18-U24-MC3 | 1" | 1/8" to 1/4" | 25 |
| 78205152964 | BP16-S18-U58-MC3 | 1" | 5/16" to 1/2" | 25 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Multi-Run Cable Carrier & Box Support Fastener

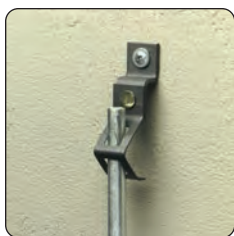
- Riveted assembly provides support for electrical box and cable run on either side of box.
- Cable retention tab is open for easy loading and contains cable when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.

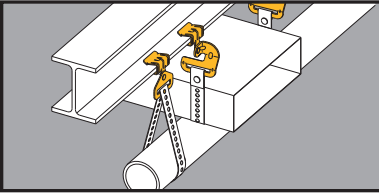


| UPC/Part Number | Catalog Number | Conduit Size Number of Runs | Flange Thickness | Box Qty. |
|-----------------|----------------------|--------------------------------|---------------------|-------------|
| 78205152829 | BRC51-S18-U24 | .430" - .560" Up to 4 Runs | 1/8" to 1/4" | 25 |
| 78205152830 | BRC51-S18-U58 | .560" - .690" Up to 7 Runs | 5/16" to 1/2" | 25 |
| 78205152834 | BRC53-S18-U24 | .430" - .560" Up to 4 Runs | 1/8" to 1/4" | 25 |
| 78205152835 | BRC53-S18-U58 | .560" - .690" Up to 7 Runs | 5/16" to 1/2" | 25 |

Read safety/installation instruction sheets in packages before use.

Hangers





- Suspends straps thru 1 1/2" wide from beam flanges 1/8" to 3/4" thick.
- Suspends straps parallel or at right angles to beams.
- Simply installed with a hammer.
- Static Load Capacity: 200 Lbs.

Strap Hangers

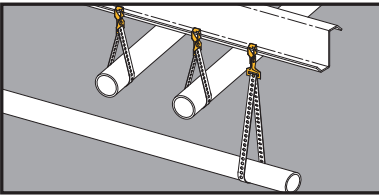


Parallel



Right Angle

| UPC/Part Number | Catalog Number | Description | Flange Thickness | Box Qty. |
|-----------------|------------------|-------------|------------------|----------|
| 78101104930 | BHE-1-2 | Parallel | 1/16" to 1/8" | 100 |
| 78101118870 | BH-2-4 | Parallel | 1/8" to 1/4" | 100 |
| 78101118880 | BH-5-8 | Parallel | 5/16" to 1/2" | 100 |
| 78101118890 | BH-9-12 | Parallel | 9/16" to 3/4" | 100 |
| 78101104115 | BH-1-2-R | Right Angle | 1/16" to 1/8" | 100 |
| 78101118875 | BH-2-4-R | Right Angle | 1/8" to 1/4" | 100 |
| 78101118885 | BH-5-8-R | Right Angle | 5/16" to 1/2" | 100 |
| 78101118895 | BH-9-12-R | Right Angle | 9/16" to 3/4" | 100 |



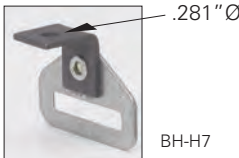
"Z" Purlin Hangers



BH-F12



BH-F12-R



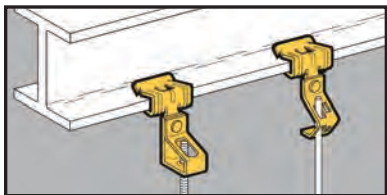
BH-H7



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|-------------|----------|
| 78101103385 | BH-F12 | Right Angle | 100 |
| 78101103384 | BH-F12-R | Parallel | 100 |
| 78101119922 | BH-H7 | Parallel | 100 |

Read safety/installation instruction sheets in packages before use.

Hangers



- Suspend wire or plain and threaded rod from beam flanges 1/8" to 3/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.

Rod To Beam Hangers



| UPC/Part Number | Catalog Number | Flange Thickness | Description | Box Qty. |
|-----------------|-------------------|------------------|---------------------------|----------|
| 78101118900 | BH1-E-2-4 | 1/8" to 1/4" | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118905 | BH1-E-5-8 | 5/16" - 1/2" | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118910 | BH1-E-9-12 | 9/16" - 3/4" | #8 Wire or 1/4" Plain Rod | 100 |

| UPC/Part Number | Catalog Number | Flange Thickness | Plain Rod Size | Box Qty. |
|-----------------|-------------------|------------------|----------------|----------|
| 78101118940 | BH2-E-2-4 | 1/8" to 1/4" | 3/8" | 100 |
| 78101118945 | BH2-E-5-8 | 5/16" - 1/2" | 3/8" | 100 |
| 78101118950 | BH2-E-9-12 | 9/16" - 3/4" | 3/8" | 100 |

Rod To Beam Hangers



With Thread Impression



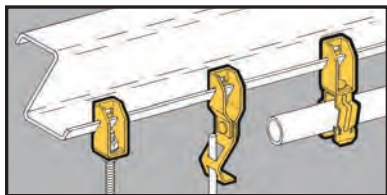
| UPC/Part Number | Catalog Number | Flange Thickness | Threaded Rod Size | Box Qty. |
|-----------------|-------------------|------------------|-------------------|----------|
| 78101118980 | BH4-E-2-4 | 1/8" to 1/4" | 1/4" | 100 |
| 78101118985 | BH4-E-5-8 | 5/16" - 1/2" | 1/4" | 100 |
| 78101118990 | BH4-E-9-12 | 9/16" - 3/4" | 1/4" | 100 |
| 78101119060 | BH6-E-2-4 | 1/8" to 1/4" | 3/8" | 100 |
| 78101119065 | BH6-E-5-8 | 5/16" - 1/2" | 3/8" | 100 |
| 78101119070 | BH6-E-9-12 | 9/16" - 3/4" | 3/8" | 100 |

Note: BH4 and BH6 have thread impressions.

| UPC/Part Number | Catalog Number | Flange Thickness | Threaded Rod Size | Box Qty. |
|-----------------|---------------------|------------------|-------------------|----------|
| 78101119020 | BH5-E-2-4 * | 1/8" to 1/4" | 1/4" to 3/8" | 100 |
| 78101119025 | BH5-E-5-8 * | 5/16" - 1/2" | 1/4" to 3/8" | 100 |
| 78101119030 | BH5-E-9-12 * | 9/16" - 3/4" | 1/4" to 3/8" | 100 |

*Nuts Required.

Hangers



"Z" Purlin Hangers

- Compensates for angle of purlin lip.
- Allows for parallel conduit runs or vertical support drops.
- Riveted fasteners will rotate 360°.
- Maximum Purlin thickness of $\frac{3}{32}$ ".

BF13



BF12



| UPC/Part Number | Catalog Number | Description | Static Load Cap. Lbs. | Box Qty. |
|-----------------|----------------|---------------------------|-----------------------|----------|
| 78101118345 | BF13 | With $\frac{1}{4}$ " Hole | 100 | 100 |
| 78101118340 | BF12 | For "S" Hooks | 100 | 100 |



Guide-Rite™
Fastener
BG Series



Push-Type
BP Series

| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Static Load Cap. Lbs. | Box Qty. |
|-----------------|--------------------|---|-----------------------|----------|
| 78101118445 | BG-6-F13 * | $\frac{3}{8}$ " | 100 | 100 |
| 78101118520 | BG-8-12-F13 | $\frac{1}{2}$ ", $\frac{3}{4}$ " | 100 | 100 |
| 78101118590 | BG-16-F13 | 1" | 100 | 100 |
| 78101118675 | BG-20-F13 | $1\frac{1}{4}$ " | 100 | 100 |
| 78101119290 | BP-8-F13 | $\frac{1}{2}$ " EMT | 25 | 100 |
| 78101119390 | BP-12-F13 | $\frac{3}{4}$ " EMT $\frac{1}{2}$ " IMC, Rigid | 25 | 100 |
| 78101119480 | BP-16-F13 | 1" EMT $\frac{3}{4}$ " IMC, Rigid | 25 | 50 |

* BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
 $1\frac{1}{2}$ thru $10\frac{1}{4}$ MC/AC cable and $\frac{5}{16}$ or $\frac{3}{8}$ flexible conduit

Read safety/installation instruction sheets in packages before use.

Universal Beam Fasteners



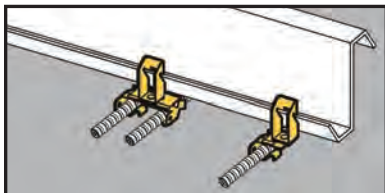
| UPC/Part Number | Catalog Number | Description | Static Load Cap. | Box Qty. |
|-----------------|----------------|---------------------------|------------------|----------|
| 78101118920 | BH1-F12 | #8 Wire or 1/4" Plain Rod | 100 Lbs. | 100 |
| 78101118960 | BH2-F12 | 3/8" Plain Rod | 100 Lbs. | 100 |



| UPC/Part Number | Catalog Number | Threaded Rod Size | Static Load Cap. | Box Qty. |
|-----------------|------------------|-------------------|------------------|----------|
| 78101119000 | BH4-F12 | 1/4" | 100 Lbs. | 100 |
| 78101119080 | BH6-F12 | 3/8" | 100 Lbs. | 100 |
| 78101119040 | BH5-F12 * | 1/4" & 3/8" | 100 Lbs. | 100 |

*Nuts Required.

Note: BH4 and BH6 have thread impressions.



Cable To "Z" Purlin Flange Hangers

- Compensates for angle of purlin lip.
- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to "Z" Purlins up to 3/32" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



BX4-F13



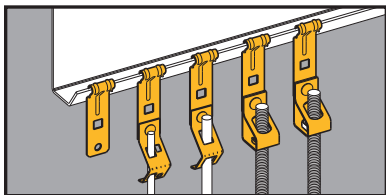
BX4M-F13



| UPC/Part Number | Catalog Number | Description | Flange Thickness | Box Qty. |
|-----------------|-----------------|-------------|------------------|----------|
| 78101101188 | BX4-F13 | Single Runs | Thru 3/32" | 100 |
| 78101101204 | BX4M-F13 | Double Runs | Thru 3/32" | 100 |

Read safety/installation instruction sheets in packages before use.

Hangers



"Z" Purlin Flange Hangers

- Suspend wire, or plain and threaded rod from "Z" Purlins.
- Fits "Z" Purlins 1/16" to 1/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101104271 | BF4 | For "S" Hooks, Bolting Straps and Wrap Wire | 100 |

"Z" Purlin Flange Hangers



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101104274 | BH1-F4 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101104276 | BH2-F4 | 3/8" Plain Rod | 100 |

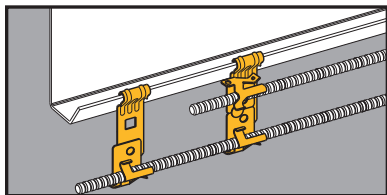


| UPC/Part Number | Catalog Number | Threaded Rod Size | Box Qty. |
|-----------------|-----------------|-------------------|----------|
| 78101104286 | BH4-F4 | 1/4" | 100 |
| 78101104280 | BH6-F4 | 3/8" | 100 |
| 78101104278 | BH5-F4 * | 1/4" - 3/8" | 100 |

* Nuts required.

Note: BH4 & BH6 have thread impressions.

Hangers



- Attaches MC, AC, sizes 14/2 thru 10/3 or 3/8" FMC to "Z" Purlins.
- Fits "Z" Purlin flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.

Cable To "Z" Purlin Flange Hangers



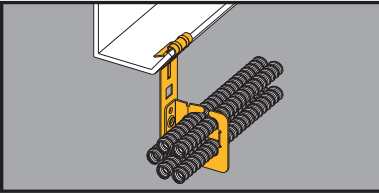
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104931 | BX4-F4 | Single Runs | 100 |

These products are designed for positioning only. No load rating.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104932 | BX4M-F4 | Double Runs | 100 |

These products are designed for positioning only. No load rating.



MC/AC Cable Carrier to 'Z' Purlin Flange Hanger

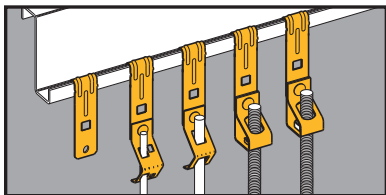
- Secures and supports multiple runs of MC/AC cable to 'Z' purlins.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.



| UPC/Part Number | Catalog Number | Cable Diameter & Number of Runs | Box Qty. |
|-----------------|-----------------|---------------------------------|----------|
| 78205144084 | BRC51-F4 | .430" to .560" Up to 4 Runs | 25 |
| 78205144085 | BRC52-F4 | .430" to .560" Up to 9 Runs | 25 |
| 78205144086 | BRC53-F4 | .560" to .690" Up to 7 Runs | 25 |

Read safety/installation instruction sheets in packages before use.

Hangers



- Suspend wire, or plain and threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

Vertical Flange Hangers



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101104270 | BF3 | For "S" Hooks, Bolting Straps and Wrap Wire | 100 |

Vertical Flange Hangers



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101104273 | BH1-F3 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101104275 | BH2-F3 | 3/8" Plain Rod | 100 |



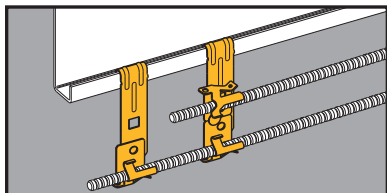
4 1/4"
Overall Height

| UPC/Part Number | Catalog Number | Threaded Rod Size | Box Qty. |
|-----------------|-----------------|-------------------|----------|
| 78101104285 | BH4-F3 | 1/4" | 100 |
| 78101104279 | BH6-F3 | 3/8" | 100 |
| 78101104933 | BH5-F3 * | 1/4", 3/8" | 100 |

* Nuts required.

Read safety/installation instruction sheets in packages before use.

Hangers



Cable To Vertical Flange Hangers

- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" flexible conduit FMC to vertical flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



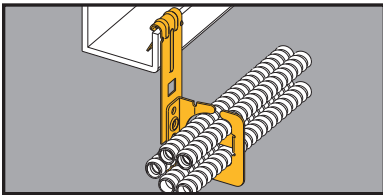
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104281 | BX4-F3 | Single Runs | 100 |

This product is designed for positioning only. No load rating.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104282 | BX4M-F3 | Double Runs | 100 |

This product is designed for positioning only. No load rating.



MC/AC Cable Carrier To Vertical Flange Hanger

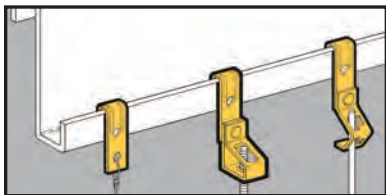
- Secures and supports multiple runs of MC/AC cable to vertical flanges.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.



| UPC/Part Number | Catalog Number | Cable Diameter & Number of Runs | Box Qty. |
|-----------------|-----------------|---------------------------------|----------|
| 78205144081 | BRC51-F3 | .430" to .560" Up to 4 Runs | 25 |
| 78205144084 | BRC52-F3 | .430" to .560" Up to 9 Runs | 25 |
| 78205144083 | BRC53-F3 | .560" to .690" Up to 7 Runs | 25 |

Read safety/installation instruction sheets in packages before use.

Hangers



- Suspend wire, or plain or threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

Vertical Flange Hangers



| UPC/Part Number | Catalog Number | Flange Thickness | Description | Box Qty. |
|-----------------|----------------|------------------|---|----------|
| 78101118310 | BF1 | 1/16" - 5/32" | For "S" Hooks, Bolting Straps and Wrap Wire | 100 |
| 78101118315 | BF2 | 5/32" - 1/4" | For "S" Hooks, Bolting Straps and Wrap Wire | 100 |



| UPC/Part Number | Catalog Number | Flange Thickness | Description | Box Qty. |
|-----------------|----------------|------------------|---------------------------|----------|
| 78101118915 | BH1-F1 | 1/16" - 5/32" | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118925 | BH1-F2 | 5/32" - 1/4" | #8 Wire or 1/4" Plain Rod | 100 |

Vertical Flange Hangers



| UPC/Part Number | Catalog Number | Flange Thickness | Plain Rod Size | Box Qty. |
|-----------------|----------------|------------------|----------------|----------|
| 78101118955 | BH2-F1 | 1/16" - 5/32" | 3/8" | 100 |
| 78101118965 | BH2-F2 | 5/32" - 1/4" | 3/8" | 100 |



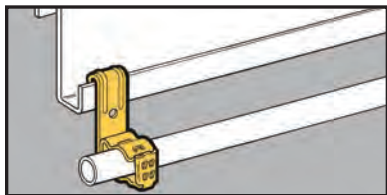
| UPC/Part Number | Catalog Number | Flange Thickness | Threaded Rod Size | Box Qty. |
|-------------------------------|----------------|------------------|-------------------|----------|
| With Thread Impression | | | | |
| 78101118995 | BH4-F1 | 1/16" - 5/32" | 1/4" | 100 |
| 78101119075 | BH6-F1 | 1/16" - 5/32" | 3/8" | 100 |
| 78101119005 | BH4-F2 | 5/32" - 1/4" | 1/4" | 100 |
| 78101119085 | BH6-F2 | 5/32" - 1/4" | 3/8" | 100 |

With Clearance Hole

| | | | | |
|-------------|-----------------|---------------|------------|-----|
| 78101118995 | BH5-F1 * | 1/16" - 5/32" | 1/4", 3/8" | 100 |
| 78101119075 | BH5-F2 * | 5/32" - 1/4" | 1/4", 3/8" | 100 |

* Nuts required.

Hangers



- Supports $\frac{3}{8}$ " to 1" conduit from vertical flanges $\frac{1}{16}$ " to $\frac{1}{4}$ " thick.
- Patented Guide-Rite™ feature ensures fastener will close and lock every time.
- Simply installed with a hammer and pliers.
- Static Load Capacity: 25 Lbs.

Conduit To Vertical Flange Hangers



Guide-Rite™
Fastener



| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|-------------------|-----------------------------------|-------------------------------------|----------|
| 78101119957 | BG-6-F1 * | $\frac{3}{8}$ " | $\frac{1}{16}$ " - $\frac{5}{32}$ " | 100 |
| 78101119960 | BG-6-F2 * | $\frac{3}{8}$ " | $\frac{5}{32}$ " - $\frac{1}{4}$ " | 100 |
| 78101119958 | BG-8-12-F1 | $\frac{1}{2}$ " & $\frac{3}{8}$ " | $\frac{1}{16}$ " - $\frac{5}{32}$ " | 100 |
| 78101119961 | BG-8-12-F2 | $\frac{1}{2}$ " & $\frac{3}{8}$ " | $\frac{5}{32}$ " - $\frac{1}{4}$ " | 100 |
| 78101119958 | BG-16-F1 | 1" | $\frac{1}{16}$ " - $\frac{5}{32}$ " | 100 |
| 78101119961 | BG-16-F2 | 1" | $\frac{5}{32}$ " - $\frac{1}{4}$ " | 100 |

Patent #4958792

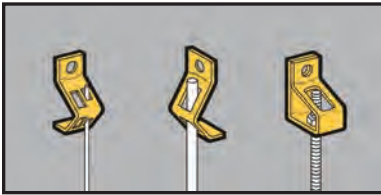
* BG-6 will accept the following range $\varnothing.420$ - $\varnothing.675$:
14/2 thru 10/4 MC/AC cable and $\frac{5}{16}$ or $\frac{3}{8}$ flexible conduit



| UPC/Part Number | Catalog Number | Wire Size | Flange Thickness | Box Qty. |
|-----------------|----------------|----------------------------|-------------------------------------|----------|
| 78101103556 | BRC3-F1 | 14/2 & 12/2 With Ground | $\frac{1}{16}$ " - $\frac{5}{32}$ " | 100 |
| 78101103557 | BRC3-F2 | 14/2 & 12/2 With Ground | $\frac{5}{32}$ " - $\frac{1}{4}$ " | 100 |

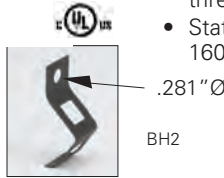
Note: These products are designed for positioning only. No load rating.

Hangers

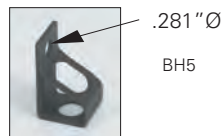


- BH1, BH2: Supports wire or plain rod.
- BH7, BH8: For wire or chain drop from concrete or wood.
- BH4, BH5, BH6 supports 1/4" or 3/8" threaded rod.
- Static Load Capacity: 160 Lbs.

Components



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101118800 | BH1 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118805 | BH2 | For 3/8" Plain Rod | 100 |



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101118815 | BH4 | For 1/4" Threaded Rod | 100 |
| 78101118825 | BH6 | For 3/8" Threaded Rod | 100 |
| 78101118820 | BH5 * | For 1/4" & 3/8" Threaded Rod | 100 |

* Nuts required.

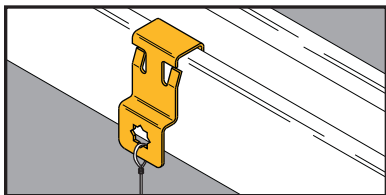
Note: BH4 & BH6 have thread impressions.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101118830 | BH7 | Angle Bracket With .281"Ø Holes | 100 |
| 78101118835 | BH7-6 | Angle Bracket With .281"Ø & .406"Ø Holes | 100 |
| 78101118840 | BH8 | Offset Bracket With .281"Ø Holes | 100 |
| 78101118845 | BH8-6 | Offset Bracket With .281"Ø & .406"Ø Holes | 100 |

Read safety/installation instruction sheets in packages before use.

Hangers



Strut Fasteners



- The BSC4 Series provides a simple, snap-on attachment to strut, eliminating the need for tools and/or drilling during installation.
- Ideal for retrofit and add-on applications.
- BSC4 provides a 1/4" mounting hole along the side of a standard strut member.
- Riveted assemblies allow for easy attachment of conduit, cable and rod.

| UPC/Part Number | Catalog Number | Description | Load Capacity | Box Qty. |
|-----------------|----------------|-------------|---------------|----------|
| 78205146573 | BSC4 | Strut Clip | 60 lbs. | 100 |



| UPC/Part Number | Catalog Number | Rod Size | Load Capacity | Box Qty. |
|-----------------|----------------|----------|---------------|----------|
| 78205146581 | BH4-SC4 | 1/4"-20 | 60 lbs. | 100 |
| 78205146582 | BH6-SC4 | 3/8"-16 | 60 lbs. | 100 |

Hangers



BG_-SC4



BP_-SC4



BL14_-SC4

| UPC/Part Number | Catalog Number | Conduit Size | Load Capacity | Box Qty. |
|-----------------|-------------------|--------------|---------------|----------|
| 78205146577 | BG6-SC4 | MC/AC & 3/8" | 25 lbs. | 100 |
| 78205146578 | BG812-SC4 | 1/2" & 3/4" | 25 lbs. | 100 |
| 78205146579 | BP8-SC4 | 1/2" | 15 lbs. | 100 |
| 78205146580 | BP12-SC4 | 3/4" | 15 lbs. | 100 |
| 78205146588 | BL1400-SC4 | 1/2" | 60 lbs. | 100 |
| 78205146589 | BL1410-SC4 | 3/4" | 60 lbs. | 100 |
| 78205146590 | BL1420-SC4 | 1" | 60 lbs. | 100 |



BX4M_-SC4

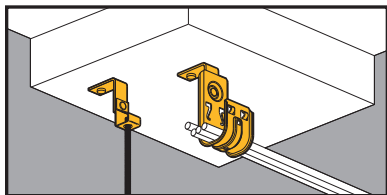


BRC5_-SC4

| UPC/Part Number | Catalog Number | Cable Size Runs | Load Capacity | Box Qty. |
|-----------------|------------------|--------------------------------|---------------|----------|
| 78205146584 | BX4M-SC4 | 14/2 - 10/3 up to 2 runs | – | 100 |
| 78205146585 | BRC51-SC4 | .430" to .560" up to 4 runs | 50 lbs. | 100 |
| 78205146586 | BRC52-SC4 | .430" to .560" up to 9 runs | 50 lbs. | 100 |
| 78205146587 | BRC53-SC4 | .560" to .690" up to 7 runs | 50 lbs. | 100 |

Read safety/installation instruction sheets in packages before use.

Hangers



Drive Pin Fasteners



BPNA



BCH21-PNA
BCH32-PNA



BH-PNA



BH1-PNA
BH2-PNA

- Special support bracket allows clearance for powder actuated tools.
- Exclusive 1¹/₄" drive pin now pre-installed.
- Pins rated for concrete up to 4000 psi.
- Static Load Capacity: 30 Lbs. unless specified. Limited by fastener assembly. Pin rating must be considered before installation.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|------------------|---|----------|
| 78205125583 | BPNA | Angle Bracket | 100 |
| 78205128090 | BCH12-PNA | 3/4" Cable Hook | 100 |
| 78205125584 | BCH21-PNA | 1 ⁵ / ₁₆ " Cable Hook | 50 |
| 78205125586 | BCH32-PNA | 2" Cable Hook | 50 |
| 78205125588 | BCH64-PNA | 4" Cable Hook | 25 |
| 78205125611 | BH-PNA | Strap Hanger | 100 |
| 78205125593 | BH1-PNA | #8 Wire or 1/4" Plain Rod | 100 |
| 78205125596 | BH2-PNA | 3/8" Plain Rod | 100 |

Read safety/installation instruction sheets in packages before use.

Drive Pin Fasteners



BH_PNA



BG_PNA



BP_PNA



BL14_PNA



BX4_PNA



BX4M_PNA

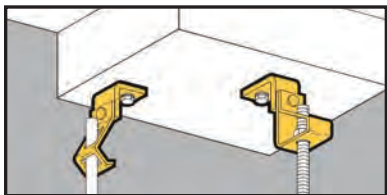
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|--------------------|---------------------------------|----------|
| 78205125604 | BH4-PNA * | 1/4" Threaded Rod | 100 |
| 78205125606 | BH6-PNA * | 3/8" Threaded Rod Cable Hook | 100 |
| 78205125605 | BH5-PNA ** | 1/4" or 3/8" Threaded Rod | 100 |
| 78205125613 | BG6-PNA *** | 3/8" Conduit | 100 |
| 78205125615 | BG8-12-PNA | 1/2" & 3/4" Conduit | 100 |
| 78205125616 | BG16-PNA | 1" Conduit | 100 |
| 78205125623 | BP8-PNA | 1/2" EMT | 100 |
| 78205125624 | BP12-PNA | 3/4" EMT | 100 |
| 78205125630 | BP16-PNA | 1" EMT | 100 |
| 78205125620 | BL1400-PNA | 1/2" Conduit | 100 |
| 78205125621 | BL1410-PNA | 3/4" Conduit | 100 |
| 78205125622 | BL1420-PNA | 1" Conduit | 100 |
| 78205125590 | BX4-PNA | Single Run MC, AC or FMC | 100 |
| 78205125591 | BX4M-PNA | Double Run MC, AC or FMC | 100 |

* With threaded impressions. ** Nuts required.

*** BG-6 will accept the following range Ø.420 - Ø.675:

14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

Hangers



Angle Bracket Fasteners

- Suspend plain or threaded rod and drop wire from ceilings, walls, concrete beams, joists and laminated wood beams.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.



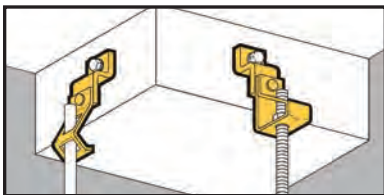
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101118930 | BH1-H7 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118975 | BH2-H7 | For 3/8" Plain Rod | 100 |



| UPC/Part Number | Catalog Number | Threaded Rod Size | Box Qty. |
|-----------------|-----------------|--------------------|----------|
| 78101119010 | BH4-H7 | 1/4"-20 | 100 |
| 78101119090 | BH6-H7 | 3/8"-16 | 100 |
| 78101119050 | BH5-H7 * | 1/4"-20 or 3/8"-16 | 100 |

* Nuts required.

Note: BH4 & BH6 have thread impressions.



- Suspend plain or threaded rod and drop wire from ceilings, walls, beams, and joists.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.

Offset Bracket Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101118935 | BH1-H8 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118975 | BH2-H8 | 3/8" Plain Rod | 100 |

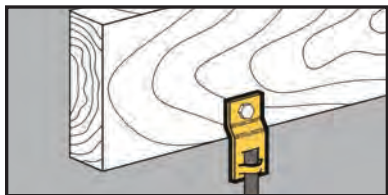


| UPC/Part Number | Catalog Number | Threaded Rod Size | Box Qty. |
|-----------------|-----------------|--------------------|----------|
| 78101119015 | BH4-H8 | 1/4"-20 | 100 |
| 78101119095 | BH6-H8 | 3/8"-16 | 100 |
| 78101119055 | BH5-H8 * | 1/4"-20 or 3/8"-16 | 100 |

* Nuts required.

Note: BH4 & BH6 have thread impressions.

Hangers



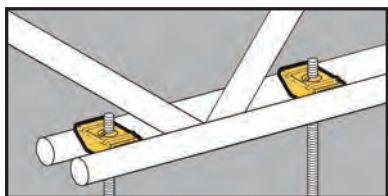
- Suspend 3/8" threaded rod from ceilings, walls, beams, and joists.
- Finish: Zinc Plated
- Static Load Capacity: 610 Lbs.

Threaded Rod Hangers

.406" Ø



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------------|----------|
| 78101101661 | B3223-3/8 | Offset Eye Socket | 100 |



- Allows centering on all open web joists with round bottom chords.
- Static Load Capacity:
BH11 = 200 Lbs.
BH12 = 100 Lbs.

Wedge Hangers



BH11

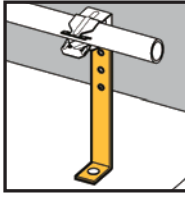
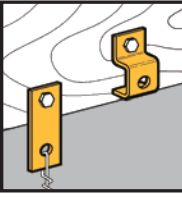


BH12



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101118860 | BH11 | With 3/8" Clearance Hole | 100 |
| 78101118865 | BH12 | With 1/4"-20 Thread Impression | 100 |

Hangers



- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



BD4



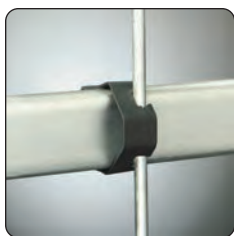
BA28B

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|----------------|----------|
| 78101101686 | BD2 | Flat Bracket | 100 |
| 78101118280 | BD4 | Offset Bracket | 100 |
| 78101101449 | BA28B | Angle Bracket | 100 |

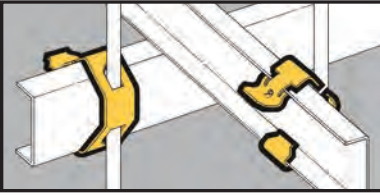
Read safety/installation instruction sheets in packages before use.

Lathers Channel

Lathers Channel



Lathers Channel



Rod & Wire Fasteners

- For fastening standard lathers channels to wires and plain rods.
- Fits 1/2" through 5/8" channel flange widths.
- Accepted for use by the City of New York Department of Buildings. MEA 383-91-M.
- Static Load Capacity: 160 Lbs.



BL-24-2



Side Mounts

BL-24-4

| UPC/Part Number | Catalog Number | Channel Size | Rod/Wire Size | Box Qty. |
|-----------------|----------------|--------------|---------------|----------|
| 78101119882 | BL-24-2 | 1 1/2" | #8 Wire | 100 |
| 78101119883 | BL-24-4 | 1 1/2" | 1/4" | 100 |
| 78101119885 | BL-32-4 | 2" | 1/4" | 100 |



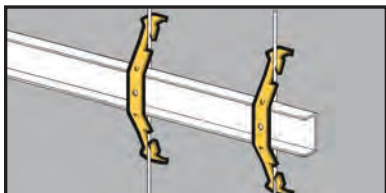
Center Mount



| UPC/Part Number | Catalog Number | Channel Size | Rod/Wire Size | Box Qty. |
|-----------------|-----------------|--------------|---------------|----------|
| 78101119884 | BL-24-4C | 1 1/2" | 1/4" Rod | 100 |

Read safety/installation instruction sheets in packages before use.

Lathers Channel

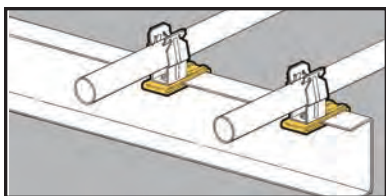


- For fastening standard 1 1/2" lathers channel to wires and plain rods.
- Wire size: #8 and #9.
- Rod size: 3/16" and 1/4".
- Fits 9/16" thru 5/8" channel flange widths.
- Static Load Capacity: 100 Lbs.

Rod & Wire Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------|----------|
| 78101119880 | BL1 | Channel to Rod & Wire | 100 |



- Serves as a mounting base for conduit fasteners or electrical boxes.
- Attaches to either flange of lathers channel with 1/4"-20 screw (furnished).
- Fits channel flange widths up to 5/8".

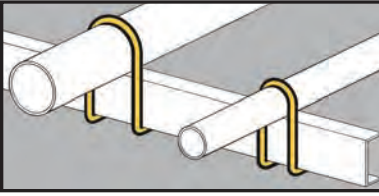
Flange Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|----------------------------|----------|
| 78101119881 | BL2 | Flange Fastener with Screw | 100 |

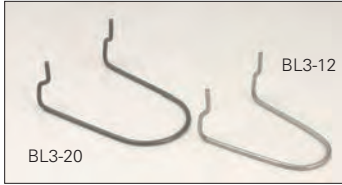
Note: This product is designed for positioning only. No load rating.

Lathers Channel



- Fastens EMT to 1 1/2" lathers channel.
- Static Load Capacity: 50 Lbs.
- Finish: Zinc Plated

Conduit Fasteners

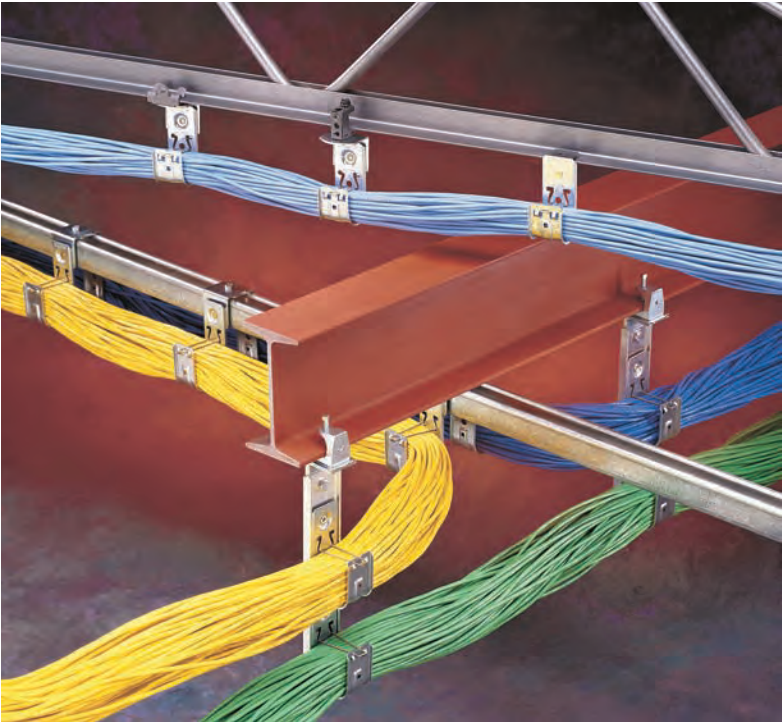


| UPC/Part Number | Catalog Number | EMT Conduit Size | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101119902 | BL3-8 | 1/2" | 100 |
| 78101119903 | BL3-12 | 3/4" | 100 |
| 78101119904 | BL3-16 | 1" | 100 |
| 78101119905 | BL3-20 | 1 1/4" | 100 |

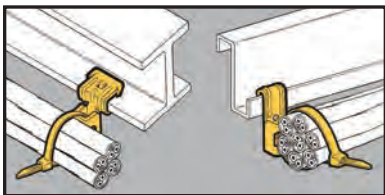
Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage

Communication & Low Voltage



Communication & Low Voltage



- Supports cable ties up to $\frac{9}{32}$ " wide from flanges $\frac{1}{16}$ " to $\frac{3}{4}$ " thick.
- 8" cable tie included.
- Simply installed with a hammer.

Cable Fasteners

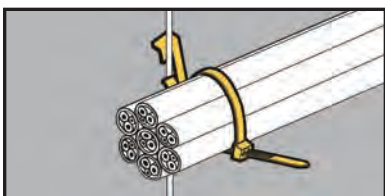


BE Series



BF Series

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|--------------------|--------------------------------------|----------|
| 78101119970 | BE-2-4-CT2 | $\frac{1}{8}$ " to $\frac{1}{4}$ " | 100 |
| 78101119971 | BE-5-8-CT2 | $\frac{5}{16}$ " to $\frac{1}{2}$ " | 100 |
| 78101119972 | BE-9-12-CT2 | $\frac{9}{16}$ " to $\frac{3}{4}$ " | 100 |
| 78101119968 | BF1-CT2 | $\frac{1}{16}$ " to $\frac{5}{32}$ " | 100 |
| 78101119969 | BF2-CT2 | $\frac{5}{32}$ " to $\frac{1}{4}$ " | 100 |



- Supports cable ties up to $\frac{9}{32}$ " wide from drop wires.
- 8" cable tie included.

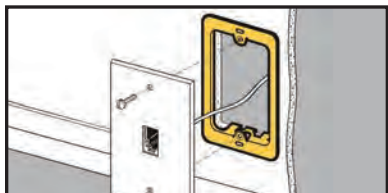
Cable Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101102866 | BW2-CT2 | #12 wire thru $\frac{1}{4}$ " plain or threaded rod | 100 |
| 78101195603 | BW6-CT2 | $\frac{3}{8}$ " plain or threaded rod | 100 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Accepts Decora®* style cover plates.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

Cover Plate Mounting Brackets



BB10



BB10-2



BB10-3



BB10-4



BB20

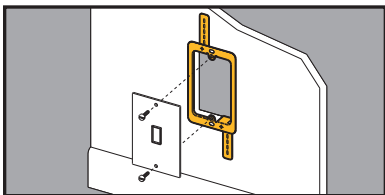
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101118150 | BB10 | Single Gang Bracket | 50 |
| 78101118152 | BB10-2 | Mounts Two (2) Single Plates | 10 |
| 78101119878 | BB10-3 | Mounts Three (3) Single Plates | 10 |
| 78101119879 | BB10-4 | Mounts Four (4) Single Plates | 10 |
| 78101118130 | BB20 | Double Gang Bracket | 10 |

Patent # Re.33305

* Decora® is a registered trademark of Leviton Corporation.

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

Cover Plate Mounting Bracket

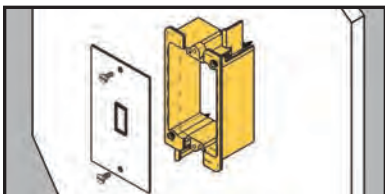


BB10L



BB20L

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------|----------|
| 78101190895 | BB10L | Single Gang Bracket | 50 |
| 78101190896 | BB20L | Double Gang Bracket | 50 |



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Design eliminates sharp edges from bracket.
- Maximum wall thickness: 3/4"

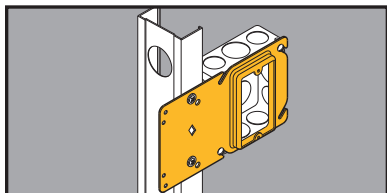
Plastic Cover Plate Mounting Bracket



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------|----------|
| 78205139235 | BB10P | Single Gang Bracket | 50 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage



- Uni-Mount offers a secure box support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Replaces electrical boxes in Class 2 low voltage installations.
- Guide tabs ensure consistent alignment on studs.
- Finish: Pre-galvanized

Uni-Mount Box Support/Cover Plate Mounting Brackets



Single Gang

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205122768 | BB40-08 | 1/2" Raise | 50 |
| 78205122771 | BB40-10 | 5/8" Raise | 50 |
| 78205122772 | BB40-12 | 3/4" Raise | 50 |

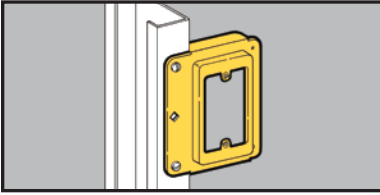


Double Gang

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205122773 | BB45-08 | 1/2" Raise | 50 |
| 78205122774 | BB45-10 | 5/8" Raise | 50 |
| 78205122775 | BB45-12 | 3/4" Raise | 50 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage

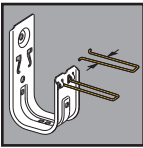


Cover Plate Mounting Bracket



- Locates communication outlets before drywall is installed.
- Replaces electrical box in Class 2 low voltage installations.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------|----------|
| 78101119873 | BB15 | Single Gang Stud Bracket | 25 |

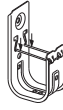


Replacement Cable Retainer Clips

- Cable retainer clips are included with all cable hook purchases.
- Provides secure containment of cables and offers quick open/close feature to add or remove cables.
- Finish: Pre-galvanized



Retainer in open position



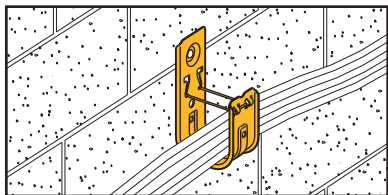
Push retainer down to lock

| UPC/Part Number | Catalog Number | Cable Retainer For Hook Size | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101104847 | BCHR21 | 1/2" Raise | 50 |
| 78101104848 | BCHR32 | 5/8" Raise | 50 |
| 78101104849 | BCHR64 | 3/4" Raise | 50 |

Patent #5961081

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage



- Supports Cat. 5/5e/6/6A fiber optic, innerduct and low voltage cabling requirements.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-Galvanized

Cable Hooks

Communication & Low Voltage

BCH12



Open



Closed



BCH21



BCH32



BCH64



| UPC/Part Number | Catalog Number | Hook Size | Capacity Up To | Box Qty. |
|-----------------|----------------|----------------------------------|---|----------|
| 78205128060 | BCH12 | 3/4" | 16 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 10 CAT6 | 50 |
| 78101104713 | BCH21 | 1 ⁵ / ₁₆ " | 50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A | 50 |
| 78101104713 | BCH32 | 2" | 50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A | 50 |
| 78101104713 | BCH64 | 4" | 50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A | 25 |

Patent #5961081

For special finish colors see page 156

(See pages 239-240 for technical data.)



Painted Cable Hooks

- Powder coated cable hooks are available in a range of colors to help meet your cable identification requirements.
- Standard riveted assemblies are available with painted cable hooks.
- Part numbers can be made by adding the paint color suffix after the cable hook part number.
- Minimum order quantity 500 pieces.
- Standard lead time is 5-10 working days.

Bright White - BW
Brown - BR
Computer White - CW
Equipment Blue - BL
Flat Black - FB

Green - GR
Orange - OR
Regal Red - RR
Safety Yellow - YL
Telcom Gray - TG

Part # Example:

Painted Cable Hook Part Number - BCH32BW

Painted Cable Hook Assembly - BCH32BW-U24



J-Hook Color ID Clip

- Color-coded clips allow for content designation without inventorying various colored hardware.
- Easy to designate pathways to prevent crossover.
- Order separately and field install.
- Can be snapped on J-Hook after it has been installed.
- Manufactured from Underwriters Laboratories (UL) Listed material for plenum spaces.
- Suitable for 3/4", 1⁵/₁₆", 2", and 4" J-Hook sizes.
- Available in six (6) colors:
Blue (BL), White (WH), Gray (GY), Orange (OR), Red (RD), and Yellow (YW).

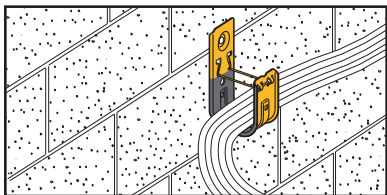
Part # Example:

Blue Colored ID Clip Part Number

BCHID-BL12 - blue clip for BCH12 J-Hook

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



X-Hook Low Friction Cable Hooks

- Xylan® coating provides smooth frictionless surface for cable pulling.
- Great for use in corners, drop-outs or direction change.
- X-Hook has lower coefficient of friction than Teflon®.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.



BCH64X

New Xylan® coating reduces cable friction. Ideal for pulling cable.



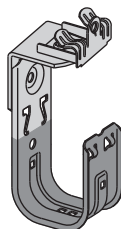
Cable rollers are too expensive and require installation and removal.

| UPC/Part Number | Catalog Number | Hook Size | Capacity | Box Qty. |
|-----------------|----------------|----------------------------------|--|----------|
| 78205129940 | BCH21X | 1 ⁵ / ₁₆ " | 50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A | 50 |
| 78205129941 | BCH32X | 2" | 80 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A | 50 |
| 78205129942 | BCH64X | 4" | 300 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A | 25 |

Note: For cable hook assemblies with X-Hooks add an X to the part number.

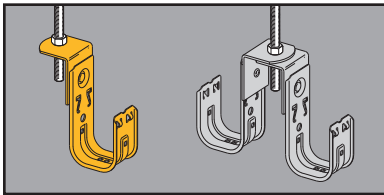
Example: BCH32X-U-2-4

(See pages 239-240 for technical data.)



Xylan® is a registered trademark used by Whitford Corporation
Teflon® is a registered trademark used by DuPont®

Communication & Low Voltage

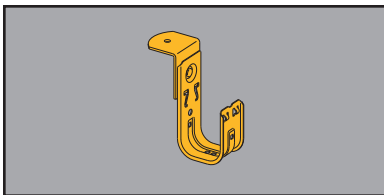


Cable To ATR Fasteners



- .505" diameter hole designed to support cable from 3/8" or 1/2" threaded rod.
- Allows back-to-back and multi-tier installations.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Hole Size | Box Qty. |
|-----------------|-----------------|-----------|----------------|----------|
| 78101104725 | BCH21-AB | 15/16" | .505" Diameter | 50 |
| 78101104729 | BCH32-AB | 2" | .505" Diameter | 50 |
| 78101104732 | BCH64-AB | 4" | .505" Diameter | 25 |



Angle Bracket Cable Fasteners



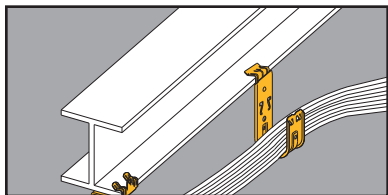
- Designed for direct attachment to structures.
- Supports cable from 1/4" threaded rod.
- .265" diameter hole accepts anchors, screws or common nails.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Hole Size | Box Qty. |
|-----------------|-----------------|-----------|----------------|----------|
| 78205128089 | BCH12-RB | 3/4" | .265" Diameter | 50 |
| 78101104735 | BCH21-RB | 15/16" | .265" Diameter | 50 |
| 78101104738 | BCH32-RB | 2" | .265" Diameter | 50 |
| 78101104742 | BCH64-RB | 4" | .265" Diameter | 25 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

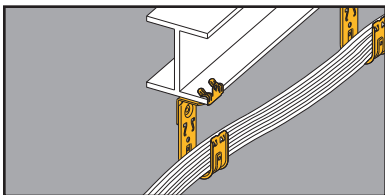
Cable To Beam Fasteners



| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|-----------|------------------|----------|
| 78205128067 | BCH12-E-2-4 | 3/4" | 1/8" to 1/4" | 50 |
| 78205128072 | BCH12-E-5-8 | 3/4" | 5/16" to 1/2" | 50 |
| 78205128073 | BCH12-E-9-12 | 3/4" | 9/16" to 3/4" | 50 |
| 78101104803 | BCH21-E-2-4 | 1 5/16" | 1/8" to 1/4" | 50 |
| 78101104805 | BCH21-E-5-8 | 1 5/16" | 5/16" to 1/2" | 50 |
| 78101104807 | BCH21-E-9-12 | 1 5/16" | 9/16" to 3/4" | 50 |
| 78101104825 | BCH32-E-2-4 | 2" | 1/8" to 1/4" | 50 |
| 78101104827 | BCH32-E-5-8 | 2" | 5/16" to 1/2" | 50 |
| 78101104829 | BCH32-E-9-12 | 2" | 9/16" to 3/4" | 50 |

(See pages 239-240 for technical data.)

Communication & Low Voltage



Cable To Beam Fasteners

- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



Allows
360°
Rotation

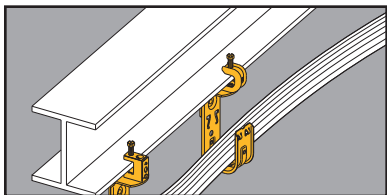


| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|-----------|------------------|----------|
| 78205128062 | BCH12-U-2-4 | 3/4" | 1/8" to 1/4" | 50 |
| 78205128064 | BCH12-U-5-8 | 3/4" | 5/16" to 1/2" | 50 |
| 78205128066 | BCH12-U-9-12 | 3/4" | 9/16" to 3/4" | 50 |
| 78101104809 | BCH21-U-2-4 | 1 5/16" | 1/8" to 1/4" | 50 |
| 78101104811 | BCH21-U-5-8 | 1 5/16" | 5/16" to 1/2" | 50 |
| 78101104813 | BCH21-U-9-12 | 1 5/16" | 9/16" to 3/4" | 50 |
| 78101104831 | BCH32-U-2-4 | 2" | 1/8" to 1/4" | 50 |
| 78101104833 | BCH32-U-5-8 | 2" | 5/16" to 1/2" | 50 |
| 78101104835 | BCH32-U-9-12 | 2" | 9/16" to 3/4" | 50 |
| 78101104864 | BCH64-U-2-4 | 4" | 1/8" to 1/4" | 25 |
| 78101104865 | BCH64-U-5-8 | 4" | 5/16" to 1/2" | 25 |
| 78101104866 | BCH64-U-9-12 | 4" | 9/16" to 3/4" | 25 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage

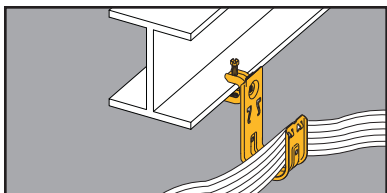


Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-------------------|-----------|------------------|----------|
| 78205128077 | BCH12-C442 | 3/4" | 1/8" to 5/8" | 50 |
| 78101104823 | BCH21-C442 | 1 5/16" | 1/8" to 5/8" | 50 |
| 78101104845 | BCH32-C442 | 2" | 1/8" to 5/8" | 50 |
| 78101104868 | BCH64-C442 | 4" | 1/8" to 5/8" | 25 |



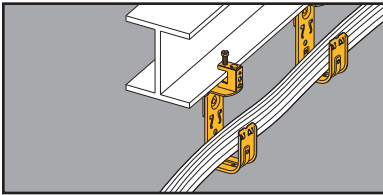
Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|--------------------|-----------|------------------|----------|
| 78205141850 | BCH12-C442A | 3/4" | 1/8" to 5/8" | 50 |
| 78205141851 | BCH21-C442A | 1 5/16" | 1/8" to 5/8" | 50 |
| 78205141852 | BCH32-C442A | 2" | 1/8" to 5/8" | 50 |
| 78205141853 | BCH64-C442A | 4" | 1/8" to 5/8" | 25 |

(See pages 239-240 for technical data.)

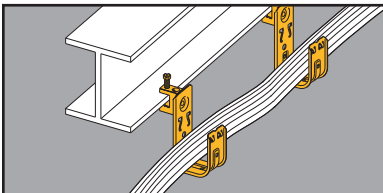


Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-----------------|-----------|------------------|----------|
| 78205128074 | BCH12-C2 | 3/4" | thru 1/2" | 50 |
| 78101104821 | BCH21-C2 | 15/16" | thru 1/2" | 50 |
| 78101104843 | BCH32-C2 | 2" | thru 1/2" | 50 |
| 78101104867 | BCH64-C2 | 4" | thru 1/2" | 25 |



Cable To Beam Fasteners

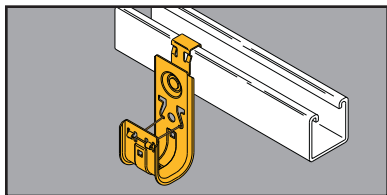


- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-----------------|-----------|------------------|----------|
| 78205141303 | BCH12-C1 | 3/4" | thru 1/2" | 50 |
| 78101195578 | BCH21-C1 | 15/16" | thru 1/2" | 50 |
| 78101195560 | BCH32-C1 | 2" | thru 1/2" | 50 |
| 78205141304 | BCH64-C1 | 4" | thru 1/2" | 25 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.



Cable Hook To Strut Attachment

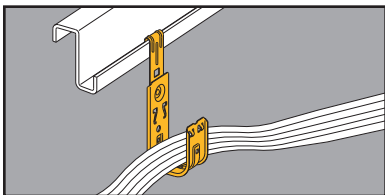
- BSC4 provides a simple snap-on attachment to strut, eliminating the need for tools or drilling.
- Cable retainer clips are included with hooks.
- Great for retrofit applications.
- Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



| UPC/Part Number | Catalog Number | Cable Hook Size | Box Qty. |
|-----------------|------------------|-----------------|----------|
| 78205146574 | BCH12-SC4 | 3/4" | 50 |
| 78205146575 | BCH21-SC4 | 15/16" | 50 |
| 78205146576 | BCH32-SC4 | 2" | 50 |
| 78205146583 | BCH64-SC4 | 4" | 50 |

(See pages 239-240 for technical data.)

Communication & Low Voltage

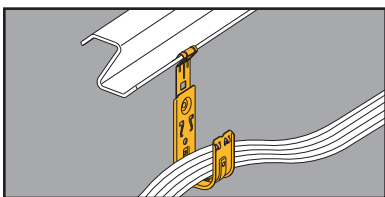


- Supports cable from vertical flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Flange Fasteners



| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-----------------|-----------|------------------|----------|
| 78205128078 | BCH12-F3 | 3/4" | 1/16" to 1/4" | 50 |
| 78101104815 | BCH21-F3 | 15/16" | 1/16" to 1/4" | 50 |
| 78101104837 | BCH32-F3 | 2" | 1/16" to 1/4" | 50 |
| 78101104869 | BCH64-F3 | 4" | 1/16" to 1/4" | 25 |



- Supports cable from angled flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Flange Fasteners

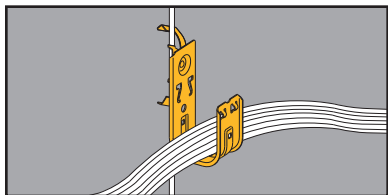


| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-----------------|-----------|------------------|----------|
| 78205128079 | BCH12-F4 | 3/4" | 1/16" to 1/4" | 50 |
| 78101104817 | BCH21-F4 | 15/16" | 1/16" to 1/4" | 50 |
| 78101104839 | BCH32-F4 | 2" | 1/16" to 1/4" | 50 |
| 78101104870 | BCH64-F4 | 4" | 1/16" to 1/4" | 25 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



Cable To Wire and Rod Fasteners

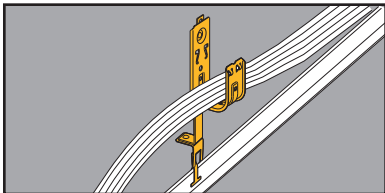
Communication & Low Voltage



- Supports cable from #12 wire thru $\frac{3}{8}$ " threaded rod.
- Cable retainer clips are included with hooks.
- W2 series attaches to #12 wire thru $\frac{1}{4}$ " plain or threaded rod.
- W6 series attaches to $\frac{3}{8}$ " plain or threaded rod.
- Static Load Capacity: 25 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|-------------------|----------|
| 78205146573 | BCH12-W2 | $\frac{3}{4}$ " | 50 |
| 78101104819 | BCH21-W2 | $\frac{15}{16}$ " | 50 |
| 78101104841 | BCH32-W2 | 2" | 50 |
| 78205128082 | BCH12-W6 | $\frac{3}{4}$ " | 50 |
| 78101195567 | BCH21-W6 | $\frac{15}{16}$ " | 50 |
| 78101195569 | BCH32-W6 | 2" | 50 |

(See pages 239-240 for technical data.)



Cable To T-Bar Fasteners

- Supports cable above ceiling grid and allows 360° rotation.
- Provides compliance with the EIA/TIA requirements.
- Permits dropwire attachment if required.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



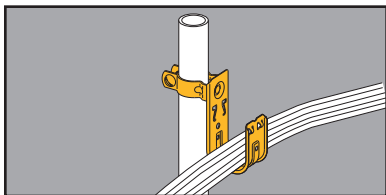
Communication & Low Voltage

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205128083 | BCH12-A28 | 3/4" | 50 |
| 78101104857 | BCH21-A28 | 15/16" | 50 |
| 78101104858 | BCH32-A28 | 2" | 50 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage

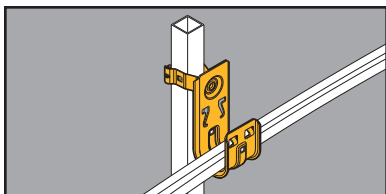


Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Floor Post Size | Box Qty. |
|-----------------|--------------------|-----------|-----------------|----------|
| 78205128085 | BCH12-L1410 | 3/4" | 1" O.D. | 50 |
| 78101104851 | BCH21-L1410 | 15/16" | 1" O.D. | 50 |
| 78101104855 | BCH32-L1410 | 2" | 1" O.D. | 50 |
| 78101104871 | BCH64-L1410 | 4" | 1" O.D. | 25 |



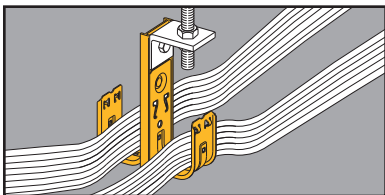
Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Floor Post Size | Box Qty. |
|-----------------|---------------------|-----------|-----------------|----------|
| 78205128086 | BCH12-G-8-12 | 3/4" | 1" Square | 50 |
| 78101172487 | BCH21-G-8-12 | 15/16" | 1" Square | 50 |
| 78101172489 | BCH32-G-8-12 | 2" | 1" Square | 50 |
| 78101172491 | BCH64-G-8-12 | 4" | 1" Square | 25 |

(See pages 239-240 for technical data.)



Double-Sided Multi-Tier Cable Fasteners



1D



2D

- Factory assembled multi-tier fasteners speed up installation.
- Unique design prevents hook and assembly rotation when pulling cable.
- All support bars furnished in 6063-T6 aluminum.
- Shown with optional BCHK2 kit.
- Cable retainer clips are included with hooks.
- Static Load Capacity: (per hook) 30 Lbs.
- Finish: Pre-galvanized

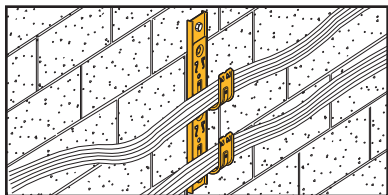
| UPC/Part Number | Catalog Number | Hook Size | Description | Box Qty. |
|-----------------|-----------------|----------------------------------|--|----------|
| 78101104758 | BCH21-1D | 1 ⁵ / ₁₆ " | 1 Tier, 2-Sided, 5 ¹ / ₂ " High | 20 |
| 78101104762 | BCH32-1D | 2" | 1 Tier, 2-Sided, 6 ³ / ₁₆ " High | 25 |
| 78101104874 | BCH64-1D | 4" | 1 Tier, 2-Sided, 9" High | 10 |
| 78101104766 | BCH21-2D | 1 ⁵ / ₁₆ " | 1 Tier, 2-Sided, 9 ¹ / ₄ " High | 10 |
| 78101104770 | BCH32-2D | 2" | 1 Tier, 2-Sided, 11" High | 10 |
| 78101104875 | BCH64-2D | 4" | 1 Tier, 2-Sided, 18 ¹ / ₄ " High | 10 |

Patent #5961081

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



Single-Sided Multi-Tier Cable Fasteners

- Factory assembled multi-tier fasteners speed up installation.
- Available in two-six tier assemblies.
- Unique design prevents hook and assembly rotation when pulling cable.
- Cable retainer clips are included with hooks.
- All support bars furnished in 6063-T6 aluminum.
- Static Load Capacity: 30 Lbs. (per hook)



2S



3S



| UPC/Part Number | Catalog Number | Hook Size | Description | Box Qty. |
|-----------------|-----------------|----------------------------------|---|----------|
| 78101104773 | BCH21-2S | 1 ⁵ / ₁₆ " | 2 Tier, 1-Sided, 11" Overall Height | 20 |
| 78101104776 | BCH32-2S | 2" | 2 Tier, 1-Sided, 12 ³ / ₄ " Overall Height | 25 |
| 78101195300 | BCH64-2S | 4" | 2 Tier, 1-Sided, 19 ⁵ / ₁₆ " Overall Height | 10 |
| 78101104779 | BCH21-3S | 1 ⁵ / ₁₆ " | 3 Tier, 1-Sided, 14 ³ / ₄ " Overall Height | 10 |
| 78101104782 | BCH32-3S | 2" | 3 Tier, 1-Sided, 17 ¹ / ₂ " Overall Height | 10 |
| 78101195303 | BCH64-3S | 4" | 3 Tier, 1-Sided, 28 ¹ / ₁₆ " Overall Height | 10 |

Patent #5961081

(See pages 239-240 for technical data.)

Communication & Low Voltage



4S



5S



6S



Communication & Low Voltage

| UPC/Part Number | Catalog Number | Hook Size | Description | Box Qty. |
|-----------------|-----------------|----------------------------------|--|----------|
| 78101104785 | BCH21-4S | 1 ⁵ / ₁₆ " | 4 Tier, 1-Sided, 18 ¹ / ₂ " Overall Height | 10 |
| 78101104788 | BCH32-4S | 2" | 4 Tier, 1-Sided, 21 ³ / ₄ " Overall Height | 10 |
| 78101197872 | BCH64-4S | 4" | 4 Tier, 1-Sided, 36 ¹³ / ₁₆ " Overall Height | 10 |
| 78101104791 | BCH21-5S | 1 ⁵ / ₁₆ " | 5 Tier, 1-Sided, 21 ³ / ₄ " Overall Height | 10 |
| 78101104794 | BCH32-5S | 2" | 5 Tier, 1-Sided, 27" Overall Height | 10 |
| 78101104797 | BCH21-6S | 1 ⁵ / ₁₆ " | 6 Tier, 1-Sided, 26" Overall Height | 10 |
| 78101104800 | BCH32-6S | 2" | 6 Tier, 1-Sided, 31 ³ / ₄ " Overall Height | 10 |

Patent #5961081

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



Shown with
BRC5
Brackets



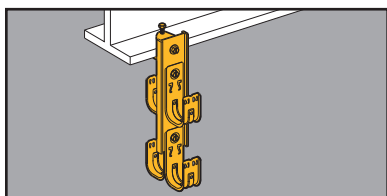
Shown with
Cable
Hooks

- The BCH-HBA combines a tiered support bar and angle bracket into one piece.
- More flexibility! The BCH-HBA can be supported from $\frac{3}{16}$ " , $\frac{1}{4}$ " , $\frac{5}{16}$ " or $\frac{3}{8}$ " rod.
- Mounts up to three BCH21 or BCH32 cable hooks or two BCH64 cable hooks per side.
- Mounts up to three BRC5 MC/AC cable support brackets per side.
- Load Capacity: 180 lbs.

Multi-Tier Support Bar



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78205143819 | BCH-HBA | Multi-Tier Support Bar | 40 |



- Support bars furnished in 6063-T6 aluminum.



Multi-Tier Cable Hook Kits



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|---|----------|
| 78101199572 | BCH-HB21 | Support Bar for BCH21 and BCH32 $8\frac{1}{4}$ " long with .281Ø holes | 20 |
| 78101199574 | BCH-HB64 | Support Bar for BCH64 $13\frac{5}{16}$ " long with .281Ø holes | 20 |

(See pages 239-240 for technical data.)

Multi-Tier Attachment Kits

- BCHK1 includes:
Beam clamp (B444-1/4)
and 1/4"-20 x 1/2"
hex head cap screw



BCHK1

- BCHK2 includes:
Angle bracket (.320"Ø
and .390"Ø holes) and
1/4"-20 x 1/2"
hex head cap screw



BCHK2

- BCHK3 includes:
1 each BCHK1 Kit and
BCHK2 Kit

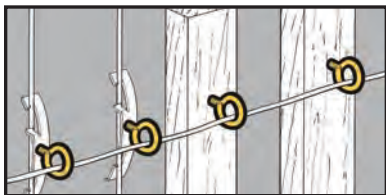


BCHK3

| UPC/Part Number | Catalog Number | Kit Description | Flange Thickness | Box Qty. |
|-----------------|----------------|-----------------|--|----------|
| 78101104872 | BCHK1 | Beam Clamp | Thru 1/2" | 10 |
| 78101104860 | BCHK2 | Angle Bracket | -- | 10 |
| 78101104873 | BCHK3 | Beam Clamp | Thru 1/2" with Angle Bracket (swivels 360°) | 10 |

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



- Supports low voltage communication cables from beams or rods when used with other fasteners.
- *Ultimate Static Load Capacity:* 50 Lbs.
- Finish: Zinc Plated

Threaded Bridle Rings



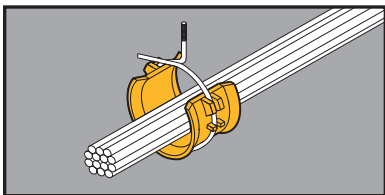
| UPC/Part Number | Catalog Number | Ring Size | Thread Size x Thread Length | Box Qty. |
|-----------------|-----------------|-----------|-----------------------------|----------|
| 78101119550 | BR-8-T | 1/2" | #10-24 x 9/16" | 100 |
| 78101119555 | BR-12-T | 3/4" | #10-24 x 9/16" | 100 |
| 78101119560 | BR-20-T | 1 1/4" | #10-24 x 9/16" | 100 |
| 78101119570 | BR-32-T | 2" | #10-24 x 9/16" | 100 |
| 78101119565 | BR-20-4T | 1 1/4" | 1/4"-20 x 9/16" | 100 |
| 78101119575 | BR-32-4T | 2" | 1/4"-20 x 9/16" | 100 |
| 78101119889 | BR-64-4T | 4" | 1/4"-20 x 9/16" | 50 |



Lag Screw
for Wood
Beams

| UPC/Part Number | Catalog Number | Ring Size | Thread Size x Thread Length | Box Qty. |
|-----------------|-----------------|-----------|-----------------------------|----------|
| 78101119875 | BR-16-3W | 1" | #10 x 9/16" | 100 |
| 78101119886 | BR-24-4W | 1 1/2" | 1/4" x 27/32" | 100 |
| 78101119876 | BR-32-4W | 2" | 1/4" x 7/8" | 100 |

Communication & Low Voltage



- The convenience of a bridle ring with the cable-bearing surface of a hook.
- 2" saddle is available separately. Can be easily attached before or after cable installation.

Bridle Ring Saddles



BRS-32A

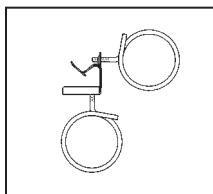


BRS-64A

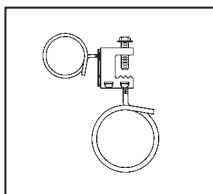
BRS-32

| UPC/Part Number | Catalog Number | Thread Size x Thread Length/Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78205122761 | BRS-32A | 1/4"-20 x 7/8" 2" Ring Assembly | 50 |
| 78205122762 | BRS-64A | 1/4"-20 x 1" 4" Ring Assembly | 25 |
| 78205122759 | BRS-32 | 2" Saddle Only | 50 |

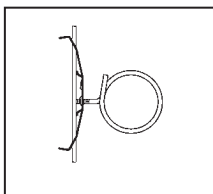
Also available for use with the following B-Line Fasteners.



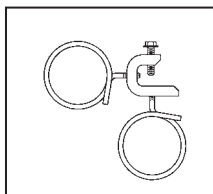
BU-9-12



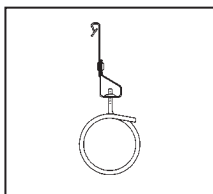
BC1



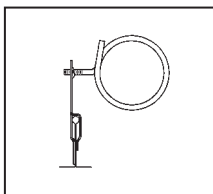
BW2



BC442



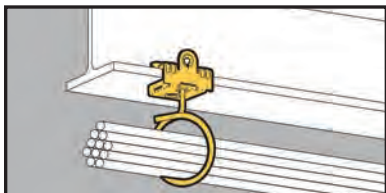
BH4-F3



BA5-4T

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage

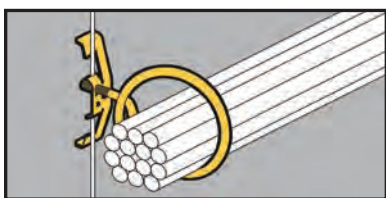


- Supports low voltage communication cables from beam flanges 1/8" to 3/4" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.

Bridle Ring/Beam Fastener Assy.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|------------------------|---------------|----------|
| 78101102921 | BR-32-4T-U-2-4 | 1/8" to 1/4" | 50 |
| 78101102923 | BR-32-4T-U-5-8 | 5/16" to 1/2" | 50 |
| 78101102924 | BR-32-4T-U-9-12 | 9/16" to 3/4" | 50 |



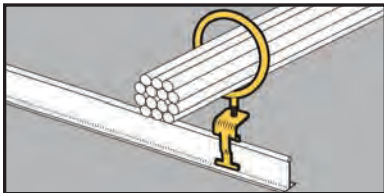
- Supports low voltage communication cables from drop wire.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.

Bridle Ring/Rod & Wire Fastener Assy.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|--------------------|--|----------|
| 78101102929 | BR-32-4T-W2 | #12 Wire Thru 1/4" Plain or Threaded Rod | 50 |

Communication & Low Voltage

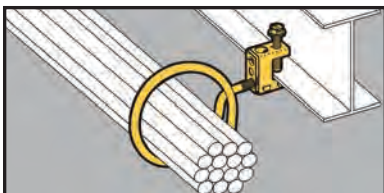


Bridle Ring/T-Bar Fastener Assembly

- Supports low voltage communication cables above the T-Bar.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- For positioning only - No Load Rating



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------|----------|
| 78101102934 | BR-32-4T-A6 | 2" Ring Size | 50 |



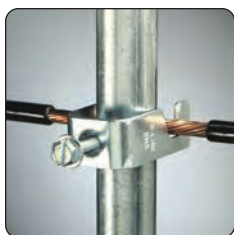
Bridle Ring/Beam Fastener Assembly

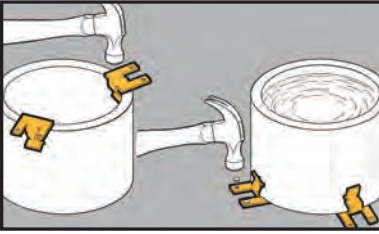
- Supports low voltage communication cables from beam flanges thru 1/2" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity: 15 lbs.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------|----------|
| 78101102937 | BR-32-4T-C1 | 2" Ring Size | 50 |

Read safety/installation instruction sheets in packages before use.



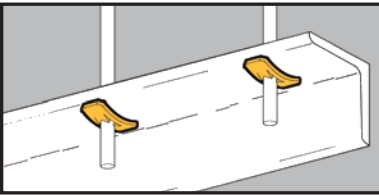


Pipe Sleeve Fasteners



- Allows for rigid attachment of pipe sleeves to wall and floor forms for concrete pouring.
- Accommodates Schedule 40, Schedule 80, or $\frac{5}{16}$ " and smaller wall thickness.

| UPC/Part Number | Catalog Number | Sleeve Diameter | Wall Thickness | Box Qty. |
|-----------------|----------------|-----------------|--------------------------|----------|
| 78101118285 | BD40 | All Dia. | $\frac{5}{16}$ " & Under | 100 |
| 78101118285 | BD40 | 2" to 6" | Schedule 40 Pipe | 100 |



Accessory Nuts



BN-2, BN-4,
BN-6
Push Nuts



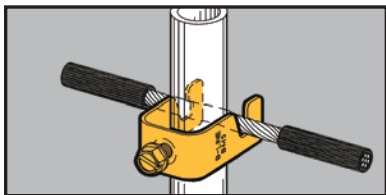
BN1
"U" Nuts With
Thread Impression

- Push Nuts designed for use with plain rod.
- "U" Nuts provide $\frac{1}{4}$ "-20 thread impression for unthreaded hole.
- No installation tools required.

| UPC/Part Number | Catalog Number | Rod/Wire Size | Static Load Capacity | Box Qty. |
|-----------------|----------------|------------------------------|------------------------------------|----------|
| 78101110115 | BN-2 | #8 Wire | 100 lbs. thru $\frac{3}{8}$ " hole | 100 |
| 78101119120 | BN-4 | $\frac{1}{4}$ " Plain Rod | 100 lbs. thru $\frac{3}{8}$ " hole | 100 |
| 78101119125 | BN-6 | $\frac{3}{8}$ " Plain Rod | 200 lbs. thru $\frac{1}{2}$ " hole | 100 |
| 78101119110 | BN1 | $\frac{1}{4}$ " Threaded Rod | 50 lbs. on $\frac{9}{32}$ " hole | 100 |

Read safety/installation instruction sheets in packages before use.

Accessories



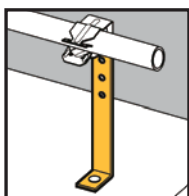
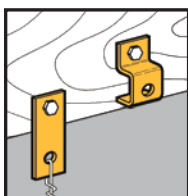
- Attaches signal reference grid wire to computer floor posts.
- Fits #8 thru #4 stranded wire. (.146" O.D. thru .232" O.D.).
- Fits 3/4" to 1" round or square posts.

Reference Wire Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------------------------------|----------|
| 78101101659 | BM5 | Single Reference Grid Wire Fastener | 100 |

Accessories



- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



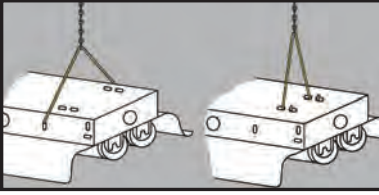
BD4



BA28B

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|----------------|----------|
| 78101101686 | BD2 | Flat Bracket | 100 |
| 78101118280 | BD4 | Offset Bracket | 100 |
| 78101101449 | BA28B | Angle Bracket | 50 |

Accessories



- For hanging industrial class fluorescent lighting fixtures.
- Use with Jack Chain and "S" Hooks.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

Light Fixture Hangers

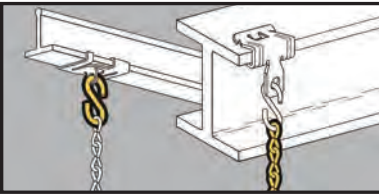


BH15



BH16

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101101236 | BH15 | Side Mount Fluorescent Light Fixture Hanger | 100 |
| 78101101237 | BH16 | Top Mount Fluorescent Light Fixture Hanger | 100 |



- For support of light fixtures and signs.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

Jack Chain & "S" Hooks



BH10

BH9
BH9-10



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------|----------|
| 78101118850 | BH9 | #12 Single Jack Chain | 100 ft. |
| 78101102901 | BH9-10 | #10 Single Jack Chain | 100 ft. |
| 78101118855 | BH10 | #11 "S" Hook | 50 |

Read safety/installation instruction sheets in packages before use.

Accessories



KwikWire™ Clamps

- KwikWire™ system replaces jack chain or ATR to support lighting, ductwork, cable tray, etc.
- Can be quickly installed around beams - No drilling required.
- Ideal for sloped ceilings - can hang objects at up to 60° angles.
- Simple height adjustments are made by releasing locking tab, no tools required.
- Spools of wire can be cut to length in field, reducing waste and up front planning.



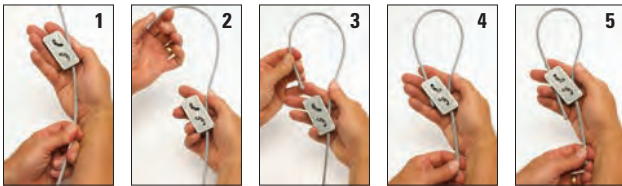
Accessories

| UPC/Part Number | Catalog Number | For Use With Wire Rope Diameters | Box Qty. |
|-----------------|----------------|----------------------------------|----------|
| 78205140719 | BKC100 | 1/16" & 3/32" | 100 |
| 78205140723 | BKC200 | 1/8" & 3/16" | 50 |

KwikWire Clamp Working Loads*

| Clamp Part No. | Wire Rope Dia. | Lbs. Safety Factor 5 |
|----------------|----------------|----------------------|
| BKC100 | 1/16" | 0-75 |
| | 3/32" | 25-150 |
| BKC200 | 3/32" | 25-150 |
| | 1/8" | 25-250 |
| | 3/16" | 50-640 |

* Working loads shown are for hanging vertically.
 For suspending at 15°, 30°, 45° or 60° angles from vertical use the following percentage of the working loads from the chart:
 15° = 96%, 30° = 86%,
 45° = 70%, 60° = 50%



1. Pass the wire through the KwikWire Clamp
2. Loop wire through/around support
3. Pass wire back through KwikWire Clamp
4. Push wire through clamp leaving 2" to 3" tail, then apply tension on wire
5. To adjust, remove tension and pull wire slightly to disengage teeth, slide adjustment pin in direction shown by arrow to release wire.



7 x 7



7 x 19

KwikWire™ Wire Rope

| UPC/Part Number | Catalog Number | Wire Diameter | Working Load - Lbs. | Spool Qty. |
|-----------------|-------------------|---------------|---------------------|------------|
| 78205140725 | BKW063 (1) | 1/16" | 96 | 500 ft. |
| 78205140727 | BKW094 (1) | 3/32" | 184 | 500 ft. |
| 78205140733 | BKW125 (1) | 1/8" | 340 | 500 ft. |
| 78205140734 | BKW188 (2) | 3/16" | 840 | 250 ft. |

(1) Wire rope construction Type 7 x 7

(2) Wire rope construction Type 7 x 19

Uncoated Galvanized Wire



- KwikPak™ includes a supply of kwik-clamps and a spool of wire rope.
- KwikPak are shipped in a specially designed dispenser box to ease field cutting of wire.

KwikPak™



| UPC/Part Number | Catalog Number | Kit Includes | Box Qty. |
|-----------------|-----------------|--|----------|
| 78205140749 | BKP10063 | BKC100 (100 pcs.) 1/16" Ø Wire Rope (500 ft.) | 1 |
| 78205140751 | BKP10094 | BKC100 (100 pcs.) 3/32" Ø Wire Rope (500 ft.) | 1 |
| 78205140761 | BKP20125 | BKC200 (50 pcs.) 1/8" Ø Wire Rope (500 ft.) | 1 |
| 78205140763 | BKP20188 | BKC200 (50 pcs.) 3/16" Ø Wire Rope (250 ft.) | 1 |

Read safety/installation instruction sheets in packages before use.

Accessories



- KwikWire™ hanger combines the versatility of a bolt with an adjustable wire rope solution.
- Can be quickly installed in existing anchors or metal brackets with a nut.
- Ideal for supporting light fixtures, wire basket cable tray, HVAC ducts, and sign/banner supports.
- See page 182 for wire rope spools.

KwikWire™ Hanger

| UPC/Part Number | Catalog Number | Thread Size | Wire Rope Diameter | Load SF5 | Box Qty. |
|-----------------|-----------------|-------------|--------------------|--------------------|----------|
| 78205158764 | BKF100-4 | 1/4"-20 | 1/16" 3/32" | 45 lbs. 90 lbs. | 100 |
| 78205158765 | BKF100-6 | 3/8"-16 | 1/16" 3/32" | 45 lbs. 90 lbs. | 100 |



1. Screw KwikWire Hanger into installed hanger support
2. Push wire up through the bottom of KwikWire Hanger
3. Continue pushing through until 1/4" minimum is extending out the side of the KwikWire Hanger
4. To adjust up - pull or push more wire through KwikWire Hanger
5. To adjust down - push up on bottom of KwikWire Hanger and allow wire to feed down
6. When hanging the wire is complete, cut off any excess cable wire if desired

KwikWire™ Accessories



BKL Series

Loop Termination

- Available as a wire rope with loop termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".



BKH Series

Single & "Y" Style Hook Termination

- Hook designed to accept up to 3/8" diameter wire.
- Available as a wire rope with hook termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles



BKYH Series



BKT Series

Single & "Y" Style Toggle Termination

- Available as a wire rope with toggle termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles
- All triple (3) leg styles are non-stock, consult B-Line for lead times



BKYT Series



BKB Series

Bolt Loop Termination

- Ideal for use with ARS, ARC, ADI, ACPW, or ACPD anchors.
- Available as a wire rope with bolt termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) styles
- All double (Y) and triple (3) styles are non-stock, consult B-Line for lead times



BKA Series

Angle Bracket Termination

- Available as a wire rope with angle bracket termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".

For additional options, refer to KwikWire Brochure (KWHS)

Read safety/installation instruction sheets in packages before use.

Accessories



BKCP



B601-62



BKCC

KwikWire™ Accessories

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78205140766 | BKCP | Air Duct Corner Protector | 100 |
| 78101156059 | B601-62 | Air Duct Support | 50 |
| 78205140297 | BKCC * | Wire Rope Cutter | 1 |

Danger: Never use cutters on energized circuits, wire, or cable.

Note: Additional accessories include BE Series (pg. 96), BF Series (pgs. 125 & 129), and BPNA Series (pg. 139)

** Not for use of cutting 3/16" diameter cable.*

KwikWire™ System Recommendations:

- Do not exceed the safe working load of the products shown in their charts
- All characteristics of KwikWire must be used with wire supplied by B-Line
- Do not use for overhead lifting or hoisting
- Do not use if cable or components are visibly distorted or worn, remove damaged cable end prior to inserting in KwikWire™ Clamp
- Do not paint cable near working area of KwikWire Clamp connector
- Do not apply lubricant
- Keep product clean and free of dirt
- Do not use on coated wire rope
- Do not use in chlorinated or caustic atmospheres
- For use in dry locations
- Cooper's BKCC tool is recommended for cutting wire rope to prevent fraying
- For use on vertical applications only

Application Photos



Accessories



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------------|---|----------|
| 78101101687 | SHHMS 1/4x1/2 | 1/4"-20 x 1/2" Slotted Hex Head Machine Screw | 100 |



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------------------------|----------|
| 78101142103 | MSQN1/4 | 1/4"-20 Machine Square Nut | 100 |



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------------|----------|
| 78101110675 | BWHS-9 | Sheet Metal Screw #8 x 9/16" | 1000 |

Note: BWHS-9 can be used with all fasteners requiring attachments with sheet metal screws.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101104925 | BWHS-9D | #8 x 1/2" Self-Drilling Sheet Metal Screw | 1000 |

Note: BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws except BB2-16, BB2-16D, BB2-24 & BB2-24D.

Read safety/installation instruction sheets in packages before use.

Anchors



Anchors



Glossary

| Prefix - Description | Screw Dia. | Length | Suffix |
|---|------------|--------------|-------------------------|
| ACB - Concrete Anchor Bolt | 4 - #4 | 75 - 3/4" | AN - Acorn Nut |
| ACPD - Bang-IT | 6 - #6 | 81 - 13/16" | CH - Combo Head |
| ACPW - Wood-Knocker | 8 - #8 | 87 - 7/8" | F - Flat |
| ACS - Concrete Screw | 10 - #10 | 100 - 1" | FL - Flanged |
| ADA - Drive Anchor | 12 - 1/8" | 118 - 13/18" | H - Hex |
| ADE - Double Expansion Anchor | 18 - 3/16" | 125 - 1 1/4" | HN - Hex Nut |
| ADH - Hollow-Base Drop-IN | 25 - 1/4" | 150 - 1 1/2" | HS - Hole Saw |
| ADI - Drop-In | 31 - 5/16" | 175 - 1 3/4" | K - Kit |
| ADM - Mini Drop-In | 37 - 3/8" | 187 - 1 7/8" | M - Mushroom |
| ADN - Drive Nail | 50 - 1/2" | 200 - 2" | OH - Oval Head |
| AMS - Machine Screw | 62 - 5/8" | 225 - 2 1/4" | PH - Pan Head |
| APC - Conical Anchor | 75 - 3/4" | 250 - 2 1/2" | RH - Rod Hanger |
| APD - Plastic Driller | 87 - 7/8" | 275 - 2 3/4" | RS - Slotted Round Head |
| APDM - Plastic Driller - Mini | | 300 - 3" | |
| APH - Plastic Hollow Wall Anchor | | 325 - 3 1/4" | SS4 - 304 |
| APS - Plastic Screw Anchor | | 350 - 3 1/2" | Stainless Steel |
| ARC - Rapid Rod™ Concrete | | 375 - 3 3/4" | T - Tool |
| ARS - Rapid Rod™ Steel | | 400 - 4" | WH - Wire Hanger |
| ARW - Rapid Rod™ Wood | | 425 - 4 1/4" | |
| ASA - Sleeve Anchor | | 450 - 4 1/2" | |
| ASE - Single Expansion Anchor | | 500 - 5" | |
| ATB - Toggle Bolt | | 525 - 5 1/4" | |
| ATM - Self-Tapping Machine Screw Anchor | | 550 - 5 1/2" | |
| | | 600 - 6" | |
| AWA - Wedge Anchor | | 700 - 7" | |
| AWSD - Seismic Wedge Anchor | | | |
| AWS - Wall Screw | | | |
| AZD - Zinc Driller | | | |
| AZDM - Zinc Driller-Mini | | | |

Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Steel rapid rods can be installed with a screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers Steel

Steel Rapid Rod - Data

| Point Style | #3 | #5 |
|---------------------------|---------------|------------|
| Self-Drilling Range (in.) | 20 ga. - 3/16 | 3/16 - 1/2 |
| Screw Size (UNC) * | 1/4"-20 | 1/4"-20 |
| Thread Length (in.) * | 1 3/16 | 3 1/32 |

* Dimensions for self-drilling (embedded) portion of anchor.

Steel Rapid Rod - Load Data

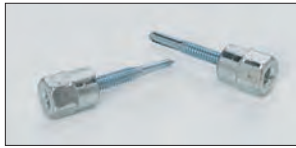
| Rod/ Anchor Size | Minimum Steel Gauge Thickness | | | | | | |
|------------------------|-------------------------------|------------|------------|------------|------------|-------|------|
| | 20 (.036") | 18 (.048") | 16 (.060") | 14 (.075") | 12 (.105") | 3/16" | 1/4" |
| 1/4 | 100 | 155 | 245 | 290 | 390 | 800 | 1260 |
| 1/4 w/nut | 390 | 390 | 440 | 440 | 510 | 960 | 510 |
| 3/8 | 100 | 155 | 245 | 290 | 390 | 490 | 490 |
| 3/8 w/nut | 365 | 365 | 365 | 365 | 365 | 365 | 365 |
| 1/2 | 120 | 175 | 230 | 390 | 510 | 820 | 1260 |

Loads shown for ASTM A36 steel beams and ASTM A572 steel purlins include a safety factor of 4.

For UL & FM listings, steel rapid rod must be installed with a retaining nut. UL & FM load rating for 3/8" rapid rod is 365 lbs. and can support up to a maximum 4" pipe.

UL & FM load rating for 1/2" rapid rod is 900 lbs. and can support up to a maximum 6" pipe.

Rapid Rod™ Hangers



| UPC/Part Number | Catalog Number | Rod Size | Shank Size & Length | Box Qty. |
|---|-------------------------|----------|------------------------|----------|
| Steel Rod Hanger - Point Style #3 For Purlins | | | | |
| 78205153317 | ARS-25-100 | 1/4" | 1/4" x 1" | 100 |
| 78205153318 | ARS-37-200 | 3/8" | 1/4" x 2" | 100 |
| 78205153320 | ARS-37-100HN** | 3/8" | 1/4" x 1" w/nuts | 100 |
| 78205153321 | ARS-37-150 | 3/8" | 1/4" x 1 1/2" | 100 |
| 78205153322 | ARS-37-150HN** | 3/8" | 1/4" x 1 1/2" w/nuts | 100 |
| Steel Rod Hanger - Side Mount - Point Style #3 For Purlins | | | | |
| 78205153323 | ARS-25-100SW | 1/4" | 1/4" x 1" | 100 |
| 78205153324 | ARS-37-100SW | 3/8" | 1/4" x 1" w/nuts | 100 |
| Steel Rod Hanger - Point Style #5 For Purlins | | | | |
| 78205153325 | ARS-25-150HD | 1/4" | #12-24 x 1 1/2" | 100 |
| 78205153326 | ARS-37-150HDHN** | 3/8" | #12-24 x 1 1/2" w/nuts | 100 |
| 78205153327 | ARS-50-150HDHN** | 1/2" | #12-24 x 1 1/2" w/nuts | 100 |

** For UL & FM listings, steel rapid rod should be installed with a retaining nut.

| UPC/Part Number | Catalog Number | Tool Description | Box Qty. |
|-----------------|----------------|-------------------------------|----------|
| Tool | | | |
| 78205153287 | 7187 | Universal Steel & Wood Socket | 1 |

Read safety/installation instruction sheets in packages before use.

Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Wood rapid rods can be installed with a screw gun or hammer drill.
- Concrete Rapid Rod hangers can be installed with an adjustable torque, battery powered screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers - Concrete

| Concrete Rapid Rod - Data | 1/4" | 3/8" | 1/2" |
|--------------------------------|-------|-------|-------|
| ANSI Drill Bit (in.) | 1/4 | 1/4 | 3/8 |
| Thread Length (in.) | 1 1/8 | 1 3/8 | 2 1/2 |
| Min. Embedment Depth (in.) | 1 1/4 | 1 1/2 | 2 3/4 |
| Load Capacity Tension (lbs.) * | 485 | 650 | 1510 |
| Load Capacity Shear (lbs.) * | 610 | 660 | 1580 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

FM approved load capacity for 3/8" anchor is 365 lbs., maximum 4" pipe size. FM approved load capacity for 1/2" anchor is 950 lbs., maximum 8" pipe size.

Rapid Rod Hangers - Wood

| Wood Rapid Rod - Data | 1/4" Thread Forming | 3/8" Thread Forming |
|--------------------------|---------------------|---------------------|
| Pre-Drill Diameter (in.) | 1/8 | 1/8 |
| Point Style | Type 17 | Type 17 |

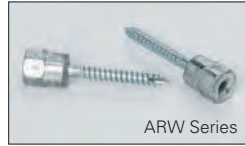
Wood Rapid Rod - Embedment & Load Data

| Rod/Anchor Size | Embedment Depth | Fir | Pine | Spruce |
|-----------------|-----------------|-----|------|--------|
| 1/4 | 1" | 170 | 160 | 160 |
| 3/8 | 2" | 375 | 375 | 375 |
| 1/2 | 2 1/2" | 665 | 775 | 775 |

Minimum load ratings are based on a safety factor of 4.

UL approved load capacity for 3/8" rod sizes and 1/4" screw size is 260 lbs., maximum 3" pipe. UL approved load capacity for 3/8" rod sizes and 3/8" screw size is 375 lbs., maximum 4" pipe. FM approval only applies to 3/8" x 2 1/2" screw size. Approved for 365 lbs., up to 4" pipe.

Rapid Rod™ Hangers



| UPC/Part Number | Catalog Number | Rod Size | Shank Size & Length | Box Qty. |
|-----------------|----------------|----------|---------------------|----------|
|-----------------|----------------|----------|---------------------|----------|

Concrete Rod Hanger - ANSI Wedge-Bolt OT Thread Shank Style

| | | | | |
|-------------|-------------------|------|---------------|-----|
| 78205153328 | ARC-25-125 | 1/4" | 1/4" x 1" | 100 |
| 78205153329 | ARC-37-150 | 3/8" | 1/4" x 1 1/2" | 100 |
| 78205153330 | ARC-50-275 | 1/2" | 3/8" x 2 3/4" | 50 |

For side mount concrete applications use ARW-25-100SW or ARW-37-200SW with 1/4" drill bit.

Wood Rod Hanger - Point Style Type 17

| | | | | |
|-------------|-------------------|------|---------------|-----|
| 78205153331 | ARW-25-200 | 1/4" | 1/4" x 2" | 100 |
| 78205153332 | ARW-37-100 | 3/8" | 1/4" x 1" | 100 |
| 78205153333 | ARW-37-200 | 3/8" | 1/4" x 2" | 100 |
| 78205153334 | ARW-37-250 | 3/8" | 3/8" x 2 1/2" | 100 |
| 78205153335 | ARW-50-250 | 1/2" | 1/2" x 2 1/2" | 100 |

Wood Rod Hanger - Side Mount - Point Style Type 17

| | | | | |
|-------------|---------------------|------|-----------|-----|
| 78205153336 | ARW-25-100SW | 1/4" | 1/4" x 1" | 100 |
| 78205153337 | ARW-37-200SW | 3/8" | 1/4" x 2" | 100 |

| UPC/Part Number | Catalog Number | Tool Description | Box Qty. |
|-----------------|----------------|------------------|----------|
|-----------------|----------------|------------------|----------|

Tools

| | | | |
|-------------|-------------|-----------------------------------|---|
| 78205153287 | 7187 | Universal Steel & Wood Socket | 1 |
| 78205153288 | 7195 | 1/4" Concrete Socket | 1 |
| 78205153289 | 7197 | 3/8" Concrete Socket | 1 |
| 78205153290 | 7198 | 1/2" Concrete Socket | 1 |
| 78205153360 | 5874 | Concrete Tapper Sleeve Assy. | 1 |
| 78205153361 | 5866 | 1/4" X 6" Hex Shank SDS Drill Bit | 1 |

Read safety/installation instruction sheets in packages before use.

Anchors

Drop-in Anchors

- Designed for use in solid concrete.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- UL & FM approved.
- Available in Zinc Plated finish or Stainless Steel.



| Drop-In Anchors - Data | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
|---------------------------------|---------|---------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 3/8 | 1/2 | 5/8 | 7/8 | 1 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 20 | 40 | 80 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 |
| Min. Embedment Depth (in.) | 1 | 19/16 | 2 | 2 1/2 | 3 3/16 |
| Load Capacity Tension (lbs) * | 495 | 1045 | 1440 | 1860 | 3600 |
| Load Capacity Shear (lbs) * | 530 | 1145 | 1600 | 3095 | 3920 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Anchor Length | Thread Depth | Box Qty. |
|-----------------|----------------|----------|---------------|--------------|----------|
|-----------------|----------------|----------|---------------|--------------|----------|

Drop-In Anchor - Smooth Wall - Steel

| | | | | | |
|-------------|---------------|------|---------|----------|-----|
| 78101103218 | ADI-25 | 1/4" | 1" | 7/16" | 100 |
| 78101103219 | ADI-37 | 3/8" | 1 9/16" | 5/8" | 50 |
| 78101103220 | ADI-50 | 1/2" | 2" | 1 3/16" | 50 |
| 78101103221 | ADI-62 | 5/8" | 2 1/2" | 1 13/16" | 25 |
| 78101103222 | ADI-75 | 3/4" | 3 3/16" | 1 3/8" | 10 |

Drop-In Anchor - Smooth Wall - StainlessSteel

| | | | | | |
|-------------|------------------|------|---------|----------|-----|
| 78101103223 | ADI-25SS4 | 1/4" | 1" | 7/16" | 100 |
| 78101103224 | ADI-37SS4 | 3/8" | 1 9/16" | 5/8" | 50 |
| 78101103226 | ADI-50SS4 | 1/2" | 2" | 1 3/16" | 50 |
| 78101103227 | ADI-62SS4 | 5/8" | 2 1/2" | 1 13/16" | 25 |
| 78101103228 | ADI-75SS4 | 3/4" | 3 3/16" | 1 3/8" | 10 |

Drop-In Hanger - Flanged - Steel

| | | | | | |
|-------------|-----------------|------|---------|---------|-----|
| 78205153297 | ADI-25FL | 1/4" | 1" | 7/16" | 100 |
| 78205153298 | ADI-37FL | 3/8" | 1 9/16" | 5/8" | 50 |
| 78205153299 | ADI-50FL | 1/2" | 2" | 1 3/16" | 50 |

| UPC/Part Number | Catalog Number | Rod Size | Pin Length | Box Qty. |
|-----------------|----------------|----------|------------|----------|
|-----------------|----------------|----------|------------|----------|

Setting Tools

| | | | | |
|-------------|-------------|------|----------|---|
| 78101103229 | 6305 | 1/4" | 39/64" | 1 |
| 78101103231 | 6307 | 3/8" | 61/64" | 1 |
| 78101103232 | 6309 | 1/4" | 1 3/16" | 1 |
| 78101103233 | 6311 | 1/4" | 1 5/15" | 1 |
| 78101103234 | 6313 | 1/4" | 1 61/64" | 1 |

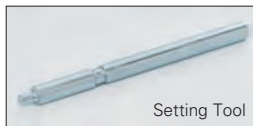
Read safety/installation instruction sheets in packages before use.

Mini Drop-in Anchors

- Carbon steel machine bolt anchor for use in shallow embedment applications.
- Can be used in solid concrete and precast hollow core plank, in addition to post-tensioned concrete slabs and concrete pours over metal deck.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Setting tool scores flange when set to verify proper expansion
- Available in zinc plated finish.



Anchor



Setting Tool

| Mini Drop-In Anchors - Data | 1/4" | 3/8" | 1/2" |
|---------------------------------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 3/8 | 1/2 | 5/8 |
| Max. Tightening Torque (ft-lbs) | 3 | 5 | 10 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 |
| Min. Embedment Depth (in.) | 5/8 | 3/4 | 1 |
| Load Capacity Tension (lbs) * | 350 | 530 | 840 |
| Load Capacity Shear (lbs) * | 415 | 1055 | 1220 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Thread Depth | Box Qty. |
|------------------------------------|----------------|----------|--------------|----------|
| Mini Drop-In Anchor - Steel | | | | |
| 78205153300 | ADM-25 | 1/4" | 3/8" | 100 |
| 78205153302 | ADM-37 | 3/8" | 13/32" | 50 |
| 78205153302 | ADM-50 | 1/2" | 5/8" | 50 |
| Setting Tools | | | | |
| 78205153301 | 6336 | 1/4" | — | 1 |
| 78205153303 | 6323 | 3/8" | — | 1 |
| 78205153305 | 6338 | 3/8" | — | 1 |

Read safety/installation instruction sheets in packages before use.

Hollow Base Drop-in Anchors

- For use in hollow base materials such as hollow concrete block, brick with weep holes, and precast hollow core plank.
- Can also be used in solid base materials.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- Available in Zinc Plated finish.



| Hollow Base Drop-In - Data | 1/4" | 3/8" | 1/2" |
|---------------------------------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 3/8 | 5/8 | 3/4 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 20 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 |
| Thread Length In Cone (in.) | 3/8 | 5/8 | 3/4 |
| Min. Embedment Depth (in.) | 3/4 | 1 | 1 1/2 |
| Load Capacity Tension (lbs) * | 285 | 520 | 1005 |
| Load Capacity Shear (lbs) * | 300 | 640 | 1005 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Overall Length | Sleeve Length | Box Qty. |
|----------------------------|----------------|----------|----------------|---------------|----------|
| Hollow Base Drop-In | | | | | |
| 78205153291 | ADH-25 | 1/4" | 7/8" | 5/8" | 100 |
| 78205153293 | ADH-37 | 3/8" | 1 5/16" | 1 5/16" | 50 |
| 78205153294 | ADH-50 | 1/2" | 1 3/4" | 1 1/4" | 50 |
| Setting Tools | | | | | |
| 78205153292 | 9323 | 1/4" | - | - | 1 |
| 78205153294 | 9343 | 3/8" | - | - | 1 |
| 78205153296 | 9353 | 1/2" | - | - | 1 |

Concrete Screw Bolts

- For use in racking, shelving, material handling, structural anchorage, masonry and food & beverage facilities.
- One piece heavy-duty anchor with a finished hex-head.
- Fits standard fixture hole dimensions in fabricated steel.
- Fast installation and immediate loading reduces downtime.
- For proper performance, screw anchors must be installed with the corresponding bits. The bits have a matched tolerance range designed to provide optimum performance.



| Concrete Screw Bolts - Data | 1/4" | 3/8" |
|--------------------------------------|---------------|---------------|
| ACB Drill Bit Size (in.) | 1/4 | 3/8 |
| Concrete Screw Tolerance Range (in.) | 0.255 - 0.259 | 0.385 - 0.389 |
| Min. Embedment Depth (in.) | 1 | 1 1/2 |
| Load Capacity Tension (lbs) * | 335 | 630 |
| Load Capacity Shear (lbs) * | 520 | 1170 |

* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.

For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

| UPC/Part Number | Catalog Number | Anchor Length | Thread Length | Box Qty. |
|----------------------------------|-------------------|---------------|---------------|----------|
| Screw Type Anchor - Steel | | | | |
| 78205153247 | ACB-25-175 | 1/4" x 1 3/4" | 1 5/8" | 100 |
| 78205153248 | ACB-25-225 | 1/4" x 2 1/4" | 2" | 100 |
| 78205153249 | ACB-25-300 | 1/4" x 3" | 2 3/4" | 100 |
| 78205153250 | ACB-37-175 | 3/8" x 1 3/4" | 1 1/2" | 50 |
| 78205153251 | ACB-37-250 | 3/8" x 2 1/2" | 2 1/4" | 50 |
| 78205153252 | ACB-37-300 | 3/8" x 3" | 2 3/4" | 50 |
| 78205153253 | ACB-37-400 | 3/8" x 4" | 3 3/4" | 50 |

| UPC/Part Number | Catalog Number | Drill Size | Usable Length | Overall Length | Box Qty. |
|---|----------------|------------|---------------|----------------|----------|
| Drill Bits - Straight Shank Type | | | | | |
| 78205153254 | 1372 | 1/4" | 4" | 6" | 1 |
| 78205153256 | 1380 | 3/8" | 4" | 6" | 1 |
| Drill Bits - SDS Type | | | | | |
| 78205153255 | 1314 | 1/4" | 4" | 6" | 1 |
| 78205153257 | 1316 | 3/8" | 4" | 6" | 1 |

Note: Matched tolerance bits must be used for installation.

Read safety/installation instruction sheets in packages before use.

Anchors

Concrete Screws

- Light to medium duty anchor for use in concrete, masonry block and brick base materials.
- Concrete screws are engineered with matched tolerance bits and installation tools to optimize performance.
- High low thread design for greater stability and grip.
- No hole spotting required.
- One drill bit is packaged in each box of concrete screws.
- Blue fluorocarbon coating for corrosion resistance.



Straight Shank Drill Bit



SDS Hex Drill Bit



Hex Head

| Hex Head - Data | 3/16" | 1/4" |
|------------------------------|-------|-------|
| ANSI Drill Bit Size (in.) | 5/32 | 3/16 |
| Fixture Clearance Hole (in.) | 1/4 | 5/16 |
| Head Height (in.) | 7/64 | 9/64 |
| Head Width (in.) | 1/4 | 5/16 |
| Washer O.D. (in.) | 11/32 | 13/32 |
| Washer Thickness (in.) | 1/32 | 1/32 |
| Hex Driver (in.) | 1/4 | 5/16 |



Flat Head

| Flat Head - Data | 3/16" | 1/4" |
|------------------------------|-------|------|
| ANSI Drill Bit Size (in.) | 5/32 | 3/16 |
| Fixture Clearance Hole (in.) | 1/4 | 5/16 |
| Phillips Head O.D. (in.) | 3/8 | 1/2 |
| Phillips Head Height (in.) | 9/64 | 3/16 |
| Phillips Bit Size | 2 | 3 |

| Embedment Depth | Nominal Anchor Dia. / Loading* | | | |
|-----------------|--------------------------------|-------------|--------------|------------|
| | 3/16" Tension | 3/16" Shear | 1/4" Tension | 1/4" Shear |
| 1" | 90 | 175 | 265 | 205 |
| 1 1/4" | 175 | 230 | 335 | 355 |
| 1 3/8" | 215 | 230 | 370 | 385 |
| 1 1/2" | 255 | 230 | 405 | 355 |
| 1 3/4" | 375 | 235 | 435 | 370 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Concrete Screws

| UPC/Part Number | Catalog Number | Size | Box Qty. |
|-----------------|----------------|------|----------|
|-----------------|----------------|------|----------|

Hex Head Concrete Screws

| | | | |
|-------------|--------------------|----------------|-----|
| 78101103342 | ACS-18-125H | 3/16" x 1 1/4" | 100 |
| 78101103343 | ACS-18-175H | 3/16" x 1 3/4" | 100 |
| 78101103344 | ACS-18-225H | 3/16" x 2 1/4" | 100 |
| 78101103346 | ACS-18-275H | 3/16" x 2 3/4" | 100 |
| 78101103347 | ACS-18-325H | 3/16" x 3 1/4" | 100 |
| 78101103348 | ACS-18-375H | 3/16" x 3 3/4" | 100 |
| 78101103349 | ACS-18-400H | 3/16" x 4" | 100 |
| 78101103342 | ACS-25-125H | 1/4" x 1 1/4" | 100 |
| 78101103343 | ACS-25-175H | 1/4" x 1 3/4" | 100 |
| 78101103344 | ACS-25-225H | 1/4" x 2 1/4" | 100 |
| 78101103346 | ACS-25-275H | 1/4" x 2 3/4" | 100 |
| 78101103347 | ACS-25-325H | 1/4" x 3 1/4" | 100 |
| 78101103348 | ACS-25-375H | 1/4" x 3 3/4" | 100 |
| 78101103349 | ACS-25-400H | 1/4" x 4" | 100 |

Flat Head Concrete Screws

| | | | |
|-------------|--------------------|----------------|-----|
| 78205153259 | ACS-18-125F | 3/16" x 1 1/4" | 100 |
| 78205153260 | ACS-18-175F | 3/16" x 1 3/4" | 100 |
| 78205153261 | ACS-18-225F | 3/16" x 2 1/4" | 100 |
| 78205153262 | ACS-18-275F | 3/16" x 2 3/4" | 100 |
| 78205153263 | ACS-25-125F | 1/4" x 1 1/4" | 100 |
| 78205153264 | ACS-25-175F | 1/4" x 1 3/4" | 100 |
| 78205153265 | ACS-25-225F | 1/4" x 2 1/4" | 100 |
| 78205153266 | ACS-25-275F | 1/4" x 2 3/4" | 100 |

| UPC/Part Number | Catalog Number | Bit Size | Usable Length | Box Qty. |
|-----------------|----------------|----------|---------------|----------|
|-----------------|----------------|----------|---------------|----------|

Straight Shank Drill Bits

| | | | | |
|-------------|-------------|----------------|----|---|
| 78205153267 | 2782 | 5/32" x 4 1/2" | 3" | 1 |
| 78205153269 | 2786 | 3/16" x 4 1/2" | 3" | 1 |

SDS Hex Drill Bits

| | | | | |
|-------------|-------------|------------|----|---|
| 78205153268 | 2793 | 5/32" x 5" | 3" | 1 |
| 78205153270 | 2796 | 3/16" x 5" | 3" | 1 |

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
|-----------------|----------------|-------------|----------|

Setting Tool

| | | | |
|-------------|-------------|------------------------|-----|
| 78101103453 | 2791 | ConcreteScrew Tool Kit | 100 |
|-------------|-------------|------------------------|-----|

Read safety/installation instruction sheets in packages before use.

Anchors

Wedge Expansion Anchors

- Heavy and medium duty all purpose anchor.
- For use in solid concrete and grout filled block.
- Anchors can be installed through the fixture, no need for hole spotting.
- Interlocking clip wedges prevent anchor spinning during installation.
- Wire hanger hole size $\frac{9}{32}$ " diameter, head height $\frac{3}{4}$ ".
- UL & FM approved.
- Available in Zinc Plated Carbon Steel or Type 304 Stainless Steel.



| Wedge Expansion Anchor - Data | 1/4" | 3/8" | 1/2" | 5/8" |
|---------------------------------|---------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/4 | 3/8 | 1/2 | 5/8 |
| Fixture Clearance Hole (in.) | 5/16 | 7/16 | 9/16 | 11/16 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 |
| Washer O.D. (in.) | 5/8 | 13/16 | 1 1/16 | 1 3/4 |
| Wrench Size | 7/16 | 9/16 | 3/4 | 15/16 |
| Max. Tightening Torque (ft-lbs) | 8 | 28 | 60 | 90 |
| Min. Embedment Depth (in.) | 1 1/8 | 1 5/8 | 2 1/4 | 2 3/4 |
| Load Capacity Tension (lbs) * | 360 | 760 | 1390 | 2075 |
| Load Capacity Shear (lbs) * | 405 | 940 | 1700 | 2975 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.

| Wire Hanger Wedge Anchor - Data | 1/4" |
|---------------------------------|-------|
| ANSI Drill Bit Size (in.) | 1/4 |
| Min. Embedment Depth (in.) | 1 1/8 |
| Head Height (in.) | 3/4 |
| Load Capacity Tension (lbs) * | 360 |
| Load Capacity Shear (lbs) * | 405 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Size | Hole Size | Box Qty. |
|--------------------|---------------------|-----------|-----------|----------|
| Wire Hanger | | | | |
| 78101103106 | AWA-25-200WH | 1/4" x 2" | 9/32" | 100 |

Wedge Expansion Anchors

| UPC/Part Number | Catalog Number | Size | Thread Length | Box Qty. |
|---------------------------------------|----------------------|---------------|---------------|----------|
| Wedge Anchor | | | | |
| 78101103068 | AWA-25-175 | 1/4" x 1 3/4" | 3/4" | 100 |
| 78101103069 | AWA-25-225 | 1/4" x 2 1/4" | 1 1/4" | 100 |
| 78101103070 | AWA-25-325 | 1/4" x 3 1/4" | 2 1/4" | 100 |
| 78101103071 | AWA-37-225 | 3/8" x 2 1/4" | 1 1/4" | 50 |
| 78101103072 | AWA-37-275 | 3/8" x 2 3/4" | 1 5/8" | 50 |
| 78101103073 | AWA-37-300 | 3/8" x 3" | 1 7/8" | 50 |
| 78205153364 | AWA-37-350 | 3/8" x 3 1/2" | 2 3/8" | 50 |
| 78101103074 | AWA-37-375 | 3/8" x 3 3/4" | 2 5/8" | 50 |
| 78101103075 | AWA-37-500 | 3/8" x 5" | 3 7/8" | 50 |
| 78205153366 | AWA-50-275 | 1/2" x 2 3/4" | 1 3/8" | 50 |
| 78101103077 | AWA-50-375 | 1/2" x 3 3/4" | 2 3/8" | 50 |
| 78205145636 | AWA-50-450 | 1/2" x 4 1/2" | 3 1/8" | 50 |
| 78101103079 | AWA-50-550 | 1/2" x 5 1/2" | 4 1/8" | 50 |
| 78101103080 | AWA-50-700 | 1/2" x 7" | 5 5/8" | 25 |
| 78101103081 | AWA-62-275 | 5/8" x 3 1/2" | 2" | 25 |
| 78101103082 | AWA-62-375 | 5/8" x 4 1/2" | 3" | 25 |
| 78101103083 | AWA-62-450 | 5/8" x 5" | 3 1/2" | 25 |
| 78101103084 | AWA-62-550 | 5/8" x 6" | 4 1/2" | 25 |
| 78101103085 | AWA-62-700 | 5/8" x 7" | 5 1/2" | 25 |
| Wedge Anchor - Stainless Steel | | | | |
| 78101103146 | AWA-25-175SS4 | 1/4" x 1 3/4" | 3/4" | 100 |
| 78101103147 | AWA-25-225SS4 | 1/4" x 2 1/4" | 1 1/4" | 100 |
| 78101103148 | AWA-25-325SS4 | 1/4" x 3 1/4" | 2 1/4" | 100 |
| 78101103149 | AWA-37-225SS4 | 3/8" x 2 1/4" | 1 1/4" | 50 |
| 78101103150 | AWA-37-275SS4 | 3/8" x 2 3/4" | 1 5/8" | 50 |
| 7810110151 | AWA-37-300SS4 | 3/8" x 3" | 1 7/8" | 50 |
| 78205153365 | AWA-37-350SS4 | 3/8" x 3 1/2" | 2 3/8" | 50 |
| 78101103152 | AWA-37-375SS4 | 3/8" x 3 3/4" | 2 5/8" | 50 |
| 78101103153 | AWA-37-500SS4 | 3/8" x 5" | 3 7/8" | 50 |
| 78101103154 | AWA-50-275SS4 | 1/2" x 2 3/4" | 1 3/8" | 50 |
| 78101103155 | AWA-50-375SS4 | 1/2" x 3 3/4" | 2 3/8" | 50 |
| 78205153367 | AWA-50-450SS4 | 1/2" x 4 1/2" | 3 1/8" | 50 |
| 78101103157 | AWA-50-550SS4 | 1/2" x 5 1/2" | 4 1/8" | 50 |
| 78205153368 | AWA-50-700SS4 | 1/2" x 7" | 5 5/8" | 25 |
| 78205153369 | AWA-62-275SS4 | 5/8" x 3 1/2" | 2" | 25 |
| 78205153370 | AWA-62-375SS4 | 5/8" x 4 1/2" | 3" | 25 |
| 78205153779 | AWA-62-450SS4 | 5/8" x 5" | 3 1/2" | 25 |
| 78205153371 | AWA-62-550SS4 | 5/8" x 6" | 4 1/2" | 25 |
| 78205143044 | AWA-62-700SS4 | 5/8" x 7" | 5 1/2" | 25 |

Read safety/installation instruction sheets in packages before use.

Seismic Wedge Anchors

- Fully threaded, torque-controlled, wedge anchor which is designed for consistent performance in cracked and uncracked concrete.
- For use in concrete, structural sand lightweight concrete, and concrete over metal deck.
- Nominal drill bit size is the same as the anchor diameter.
- ICC-ES listed, ESR-2502, Category 1
- Zinc plated carbon steel body with stainless steel expansion clip from premium performance.
- Qualified for seismic and wind loading.



| Seismic Wedge Anchor - Data | 3/8" | 1/2" | 5/8" | 3/4" |
|------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| ANSI Drill Bit Size (in.) | 3/8 | 1/2 | 5/8 | 3/4 |
| Fixture Clearance Hole (in.) | 7/16 | 9/16 | 11/16 | 13/16 |
| Minimum Hole Depth (in.) | 2 ⁵ / ₈ | 2 ³ / ₄ | 4 ¹ / ₄ | 5 |
| Minimum Concrete Thickness (in.) | 4 | 4 ¹ / ₂ | 5 ³ / ₄ | 7 |
| Max. Tightening Torque (ft-lbs) | 20 | 40 | 60 | 110 |
| Min. Embedment Depth (in.) | 2 ³ / ₈ | 2 ¹ / ₂ | 3 ⁷ / ₈ | 4 ¹ / ₂ |

For loading information, see ICC-ES ESR-2502.

Seismic Wedge Anchors

| UPC/Part Number | Catalog Number | Size | Thread Length | Box Qty. |
|-----------------------------|--------------------|---------------|---------------|----------|
| Seismic Wedge Anchor | | | | |
| 78205153398 | AWSD-37-300 | 3/8" X 3" | 1 3/4" | 50 |
| 78205153399 | AWSD-37-350 | 3/8" X 3 1/2" | 2 1/4" | 50 |
| 78205153400 | AWSD-37-375 | 3/8" X 3 3/4" | 2 1/2" | 50 |
| 78205153401 | AWSD-37-500 | 3/8" X 5" | 3 3/4" | 50 |
| 78205153402 | AWSD-50-375 | 1/2" X 3 3/4" | 2 1/8" | 50 |
| 78205153403 | AWSD-50-450 | 1/2" X 4 1/2" | 2 7/8" | 50 |
| 78205153404 | AWSD-50-550 | 1/2" X 5 1/2" | 3 7/8" | 50 |
| 78205153405 | AWSD-50-700 | 1/2" X 7" | 5 3/8" | 50 |
| 78205153406 | AWSD-62-475 | 5/8" X 4 3/4" | 2 7/8" | 25 |
| 78205153407 | AWSD-62-500 | 5/8" X 5" | 3 1/8" | 25 |
| 78205153408 | AWSD-62-600 | 5/8" X 6" | 4 1/8" | 25 |
| 78205153409 | AWSD-62-700 | 5/8" X 7" | 5 1/8" | 25 |
| 78205153410 | AWSD-75-550 | 3/4" X 5 1/2" | 3 1/4" | 20 |
| 78205153411 | AWSD-75-625 | 3/4" X 6 1/4" | 4" | 20 |
| 78205153425 | AWSD-75-700 | 3/4" X 7" | 4 3/4" | 20 |

Read safety/installation instruction sheets in packages before use.

Anchors

Drive Anchor

- One-piece, tamper-proof vibration resistant anchor for use in concrete.
- Anchor is formed with an 's' shaped configuration at the working end of the anchor to create an expansion mechanism.
- Anchor is pre-expanded so no secondary tightening operation is required.
- FM approved.
- Made of Zinc Plated carbon steel.



| Mushroom Head - Data | 3/16" | 1/4" |
|--------------------------------|-------|------|
| ANSI Drill Bit Size (in.) | 3/16 | 1/4 |
| Fixture Clearance Hole (in.) | 1/4 | 5/16 |
| Head Height (in.) | 7/64 | 7/64 |
| Head Size O.D. (in.) | 7/16 | 1/2 |
| Min. Embedment Depth (in.) | 7/8 | 7/8 |
| Load Capacity Tension (lbs.) * | 215 | 235 |
| Load Capacity Shear (lbs.) * | 330 | 470 |

Anchors



| Rod Hanger - Data | 1/4" | 3/8" |
|--------------------------------|---------|---------|
| ANSI Drill Bit Size (in.) | 3/16 | 1/4 |
| UNC Thread Size | 1/4"-20 | 3/8"-16 |
| Head Height (in.) | 1/2 | 5/8 |
| Head Size O.D. (in.) | 13/32 | 35/64 |
| Min. Embedment Depth (in.) | 1 1/4 | 1 3/4 |
| Load Capacity Tension (lbs.) * | 315 | 500 |
| Load Capacity Shear (lbs.) * | 245 | 525 |



| Wire Hanger - Data | 3/16" | 1/4" |
|-------------------------------|-------------|-------------|
| ANSI Drill Bit Size (in.) | 3/16 | 1/4 |
| Tie-Wire Hole (in.) | 3/16 | 9/32 |
| Head Height (in.) | 37/64 | 41/64 |
| Head Width (in.) | 9/64 x 7/16 | 3/16 x 9/16 |
| Min. Embedment Depth (in.) | 1 1/8 | 1 1/8 |
| Load Capacity Tension (lbs.)* | 265 | 290 |
| Load Capacity Shear (lbs.)* | 240 | 330 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Drive Anchors

| UPC/Part Number | Catalog Number | Size | Box Qty. |
|----------------------|-------------------|----------------|----------|
| Mushroom Head | | | |
| 78205153271 | ADA-18-100 | 3/16" x 1" | 100 |
| 78205153272 | ADA-18-125 | 3/16" x 1 1/4" | 100 |
| 78205153273 | ADA-18-150 | 3/16" x 1 1/2" | 100 |
| 78205153274 | ADA-18-200 | 3/16" x 2" | 100 |
| 78205153275 | ADA-18-250 | 3/16" x 2 1/2" | 100 |
| 78205153276 | ADA-18-300 | 3/16" x 3" | 100 |
| 78205153278 | ADA-25-100 | 1/4" x 1" | 100 |
| 78205153279 | ADA-25-125 | 1/4" x 1 1/4" | 100 |
| 78205153280 | ADA-25-150 | 1/4" x 1 1/2" | 100 |
| 78205153281 | ADA-25-200 | 1/4" x 2" | 100 |
| 78205153282 | ADA-25-250 | 1/4" x 2 1/2" | 100 |
| 78205153283 | ADA-25-300 | 1/4" x 3" | 100 |

| UPC/Part Number | Catalog Number | Head Size | Box Qty. |
|--------------------|-----------------|-----------|----------|
| Rod Hanger | | | |
| 78205153284 | ADA-25RH | 1/4" | 100 |
| 78205153286 | ADA-37RH | 3/8" | 100 |
| Wire Hanger | | | |
| 78205153277 | ADA-18WH | 3/16" | 100 |
| 78205153285 | ADA-25WH | 1/4" | 100 |

Read safety/installation instruction sheets in packages before use.

Anchors

Sleeve Type Expansion Anchors

- For use in concrete and masonry substrates.
- Suitable for solid and hollow core materials.
- Fits standard fixture holes - no need to undersize anchors for proper fit.
- Sleeve has 360° contact area and reduces concrete stress.
- UL & FM approved.
- Available in Zinc Plated Steel or Type 304 Stainless Steel.



Hex Nut (HN)
Style



Acorn Nut (AN)
Style



Slotted Round
Head (RS) Style

| Sleeve Type Expansion - Data | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
|-------------------------------|--------|----------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
| Fixture Clearance Hole (in.) | 5/16 | 7/16 | 9/16 | 11/16 | 15/16 |
| Plow Bolt Size (UNC) | #10-24 | 5/16"-18 | 3/8"-16 | 1/2"-13 | 5/8"-11 |
| Min. Embedment Depth (in.) | 5/8 | 15/8 | 2 1/4 | 2 1/4 | 2 1/4 |
| Load Capacity Tension (lbs) * | 155 | 670 | 1255 | 1465 | 2105 |
| Load Capacity Shear (lbs) * | 300 | 610 | 1055 | 1800 | 2900 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.



Rod Hanger
(RH) Style



Wire Hanger
(WH) Style

| Sleeve Type Expansion - Data | Hanger Rod | | | Wire Hanger |
|-------------------------------|------------|----------|---------|-------------|
| | 1/4" | 3/8" | 1/2" | 5/16" |
| ANSI Drill Bit Size (in.) | 1/4 | 3/8 | 1/2 | 5/16 |
| Fixture Clearance Hole (in.) | NA | NA | NA | 1/4 |
| Plow Bolt Size (UNC) | #10-24 | 5/16"-18 | 3/8"-16 | 1/4"-20 |
| Coupling Height (in.) | 7/8 | 1 | 1 1/4 | NA |
| Min. Embedment Depth (in.) | 5/8 | 15/8 | 2 1/4 | 1 1/2 |
| Load Capacity Tension (lbs) * | 155 | 670 | 1255 | 520 |
| Load Capacity Shear (lbs) * | 300 | 610 | 1055 | 380 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading go to www.cooperblineline.com.

Sleeve Type Expansion Anchors

| UPC/Part Number | Catalog Number | Size | Thread Length | Box Qty. |
|----------------------|---------------------|---------------|---------------|----------|
| Hex Nut Style | | | | |
| 78101102995 | ASA-37-187HN | 3/8" x 1 7/8" | 1 5/8" | 50 |
| 78101102996 | ASA-37-300HN | 3/8" x 3" | 1 5/8" | 50 |
| 78205153400 | ASA-37-400HN | 3/8" x 4" | 1 5/8" | 50 |
| 78101102997 | ASA-50-225HN | 1/2" x 2 1/4" | 2 1/8" | 25 |
| 78101102998 | ASA-50-300HN | 1/2" x 3" | 2 1/4" | 25 |
| 78101102999 | ASA-50-400HN | 1/2" x 4" | 2 1/4" | 25 |
| 78205153351 | ASA-50-525HN | 1/2" x 5 1/4" | 2 1/4" | 25 |
| 78101103002 | ASA-50-600HN | 1/2" x 6" | 2 1/4" | 10 |
| 78101103003 | ASA-62-225HN | 5/8" x 2 1/4" | 2 1/8" | 25 |
| 78101103004 | ASA-62-300HN | 5/8" x 3" | 2 3/4" | 25 |
| 78101103005 | ASA-62-425HN | 5/8" x 4 1/4" | 2 3/4" | 10 |
| 78101103006 | ASA-62-600HN | 5/8" x 6" | 2 3/4" | 10 |
| 78101103007 | ASA-75-250HN | 3/4" x 2 1/2" | 2 1/8" | 10 |
| 78101103008 | ASA-75-425HN | 3/4" x 4 1/4" | 3 3/8" | 10 |
| 78101103009 | ASA-75-625HN | 3/4" x 6 1/4" | 3 3/8" | 10 |

Hex Nut Style - Stainless Steel

| | | | | |
|-------------|------------------------|---------------|--------|----|
| 78205153343 | ASA-37-187HNSS4 | 3/8" x 1 7/8" | 1 5/8" | 50 |
| 78205153345 | ASA-37-300HNSS4 | 3/8" x 3" | 1 5/8" | 50 |
| 78205153347 | ASA-50-225HNSS4 | 1/2" x 2 1/4" | 2 1/8" | 25 |
| 78205153349 | ASA-50-300HNSS4 | 1/2" x 3" | 2 1/4" | 25 |
| 78205153350 | ASA-50-400HNSS4 | 1/2" x 4" | 2 1/4" | 25 |
| 78205153352 | ASA-62-425HNSS4 | 5/8" x 4 1/4" | 2 3/4" | 10 |
| 78205153353 | ASA-75-400HNSS4 | 3/4" x 4" | 3 3/8" | 10 |

Acorn Nut Style

| | | | | |
|-------------|---------------------|---------------|--------|-----|
| 78205153341 | ASA-25-62AN | 1/4" x 5/8" | 1/2" | 100 |
| 78101102991 | ASA-25-137AN | 1/4" x 1 3/8" | 1 1/8" | 100 |
| 78101102992 | ASA-25-225AN | 1/4" x 2 1/4" | 1 1/8" | 100 |

Slotted Round Head Style

| | | | | |
|-------------|---------------------|---------------|--------|-----|
| 78205153338 | ASA-25-112RS | 1/4" x 1 1/8" | 1" | 100 |
| 78205153340 | ASA-25-200RS | 1/4" x 2" | 1 1/8" | 100 |

| UPC/Part Number | Catalog Number | Size | Drill Diameter | Box Qty. |
|--------------------|---------------------|----------------|----------------|----------|
| Rod Hanger | | | | |
| 78205153339 | ASA-25-150RH | 1/4" x 1 1/2" | 5/16" | 50 |
| 78205153344 | ASA-37-187RH | 3/8" x 1 7/8" | 3/8" | 50 |
| 78205153348 | ASA-50-225RH | 1/2" x 2 1/4" | 1/2" | 25 |
| Wire Hanger | | | | |
| 78205153342 | ASA-31-150WH | 5/16" x 1 1/2" | 5/16" | 100 |

Read safety/installation instruction sheets in packages before use.

Anchors

Double Expansion Anchors

- For use in concrete, block, brick or stone.
- Double expansion anchor is particularly suited for base materials of questionable strength (job site tests are recommended).
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



| Double Expansion - Data | 1/4" | 3/8" | 1/2" | 5/8" |
|---------------------------------|---------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/2 | 3/4 | 7/8 | 1 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 20 | 30 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 |
| Thread Length In Cone (in.) | 1/2 | 5/8 | 3/4 | 7/8 |
| Min. Embedment Depth (in.) | 1 1/4 | 1 3/4 | 2 1/4 | 2 1/2 |
| Load Capacity Tension (lbs) * | 415 | 875 | 1625 | 1750 |
| Load Capacity Shear (lbs) * | 405 | 1000 | 1540 | 2855 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Anchor Length | Box Qty. |
|-----------------|----------------|----------|---------------|----------|
| 78101103251 | ADE-25 | 1/4" | 1 3/8" | 50 |
| 78101103253 | ADE-37 | 3/8" | 2" | 50 |
| 78101103254 | ADE-50 | 1/2" | 2 1/2" | 25 |
| 78101103256 | ADE-62 | 5/8" | 2 3/4" | 25 |

Single Expansion Anchors

- For use in concrete, block, brick or stone.
- Recommended for floor and wall attachments.
- Not recommended for overhead applications.
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



| Single Expansion - Data | 1/4" | 3/8" | 1/2" | 5/8" |
|---------------------------------|---------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/2 | 3/4 | 7/8 | 1 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 20 | 30 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 |
| Thread Length In Cone (in.) | 5/16 | 5/16 | 7/16 | 5/8 |
| Min. Embedment Depth (in.) | 1 3/8 | 1 5/8 | 2 1/2 | 2 3/4 |
| Load Capacity Tension (lbs) * | 500 | 725 | 1225 | 2050 |
| Load Capacity Shear (lbs) * | 405 | 950 | 1540 | 2855 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Anchor Length | Box Qty. |
|--------------------------------|----------------|----------|---------------|----------|
| Single Expansion Anchor | | | | |
| 78101103245 | ASE-25 | 1/4" | 1 5/16" | 50 |
| 78101103247 | ASE-37 | 3/8" | 1 1/2" | 50 |
| 78101103248 | ASE-50 | 1/2" | 2 1/16" | 25 |
| 78101103249 | ASE-62 | 5/8" | 2 5/8" | 25 |

Read safety/installation instruction sheets in packages before use.

Anchors

Wood Knocker™† Anchors

- Wood-Knocker™ concrete inserts are installed onto wooden forms used to support newly poured concrete floor slabs, roof slabs or walls.
- When the forms are stripped, the color-coded flange is visibly embedded in the concrete surface.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



| Wood Knocker™ - Data | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
|-------------------------------|---------|---------|---------|---------|---------|
| Insert Thread Length (in.) | 3/8 | 5/8 | 11/16 | 15/16 | 1 1/8 |
| Plastic Flange Diameter (in.) | 1 3/8 | 1 3/8 | 1 3/8 | 1 5/8 | 1 5/8 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 |
| Overall Length (in.) | 1 7/8 | 1 7/8 | 1 7/8 | 1 7/8 | 1 7/8 |
| Min. Insert Spacing (in.) | 9 | 9 | 9 | 12 | 12 |
| Min. End Distance (in.) | 6 | 6 | 6 | 9 | 9 |
| Load Capacity Tension (lbs) * | 930 | 1200 | 1200 | 1160 | 1160 |
| Load Capacity Shear (lbs) * | 370 | 1330 | 1840 | 2800 | 2800 |

* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum embedment depth is 2".

| UPC/Part Number | Catalog Number | Rod Diameter | Color | Box Qty. |
|---------------------|----------------|--------------|--------|----------|
| Wood Knocker | | | | |
| 78205131147 | ACPW-25 | 1/4" | Brown | 100 |
| 78205131149 | ACPW-38 | 3/8" | Green | 100 |
| 78205131151 | ACPW-50 | 1/2" | Yellow | 100 |
| 78205131152 | ACPW-62 | 5/8" | Red | 50 |
| 78205131153 | ACPW-75 | 3/4" | Purple | 50 |

† Wood Knocker™ is a registered trademark used by Power® Fasteners, Inc.

Bang-It™† Anchors

- Bang-It™ concrete inserts are designed for installation in and through metal composite deck used to support newly poured concrete floors or roof slabs.
- After installation, the protective sleeve of the insert protrudes below the surface of the deck, allowing overhead attachment of threaded rod.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



| Bang-It™ - Data | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" |
|---------------------------------|---------|---------|---------|---------|---------|---------|
| Metal Hole Saw Diameter (in.) | 13/16 | 13/16 | 13/16 | 13/16 | 13/16 | 13/16 |
| Drilling Speed (rpm) | 700-900 | 700-900 | 700-900 | 500-700 | 500-700 | 500-700 |
| Insert Thread Length (in.) | 3/8 | 5/8 | 11/16 | 15/16 | 1 1/8 | 1 5/16 |
| Length of Sleeve (in.) | 3 3/8 | 3 3/8 | 3 3/8 | 3 3/8 | 3 3/8 | 3 3/8 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 | 7/8"-9 |
| Embedment Depth (in.) | 2 | 2 | 2 | 2 | 2 | 2 |
| Upper Deck Tension Load (lbs) * | 835 | 1435 | 1775 | 2200 | 2200 | 2200 |
| Lower Deck Tension Load (lbs) * | 835 | 1115 | 1115 | 1115 | 1115 | 1115 |
| Upper Deck Shear Load (lbs) * | 620 | 620 | 620 | 740 | 740 | 740 |
| Lower Deck Shear Load (lbs) * | 625 | 840 | 840 | 840 | 840 | 840 |

* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum insert spacing of 12", minimum end spacing 12".

| UPC/Part Number | Catalog Number | Rod Diameter | Color | Box Qty. |
|-----------------|----------------|--------------|--------|----------|
| Bang-It™ | | | | |
| 78205131154 | ACPD-25 | 1/4" | Brown | 100 |
| 78205131156 | ACPD-38 | 3/8" | Green | 100 |
| 78205131157 | ACPD-50 | 1/2" | Yellow | 100 |
| 78205131158 | ACPD-62 | 5/8" | Red | 50 |
| 78205131166 | ACPD-75 | 3/4" | Purple | 50 |
| 78205153258 | ACPD-87 | 7/8" | Black | 50 |

Bang-It™ Hole Saws

| | | | |
|-------------|--------------------|--|---|
| 78205131169 | ACPD-HS813 | 13/16" Carbide Hole Saw for 1/4", 3/8", 1/2" | 1 |
| 78205131171 | ACPD-HS1188 | 13/16" Carbide Hole Saw for 5/8", 3/4", 7/8" | 1 |

† Bang-It™ is a registered trademark used by Power® Fasteners, Inc.

Read safety/installation instruction sheets in packages before use.

Anchors

Machine Screw Anchors

- For use in concrete, block, brick or stone.
- Not recommended for use in overhead applications.
- Readily accepts machine bolts.
- Internally threaded anchor for easy removability and service work.
- Anchor installation requires shallow embedment.
- Made of Zamac Alloy material.



| Machine Screw Anchor - Data | 1/4" | 3/8" | 1/2" |
|---------------------------------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/2 | 3/4 | 7/8 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 15 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 |
| Min. Embedment Depth (in.) | 7/8 | 1 1/4 | 1 1/2 |
| Load Capacity Tension (lbs) * | 585 | 775 | 1095 |
| Load Capacity Shear (lbs) * | 355 | 825 | 1135 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Diameter | Box Qty. |
|-----------------------------|----------------|--------------|----------|
| Machine Screw Anchor | | | |
| 78101103239 | AMS-25 | 1/4" | 100 |
| 78101103242 | AMS-37 | 3/8" | 50 |
| 78101103243 | AMS-50 | 1/2" | 50 |
| Setting Tool | | | |
| 78205109765 | 9221 | 1/4" | 1 |
| 78205109767 | 9231 | 3/8" | 1 |
| 78205109768 | 9241 | 1/2" | 1 |

Self-Tapping Machine Screw Anchors

- For use in normal-weight concrete, structural sand lightweight concrete and concrete over metal deck.
- Anchor design allows for shallow embedment and mechanically interlocks with base material.
- Internally threaded anchor for easy adjustment and removability of threaded rod or bolt.
- Fast anchor installation with a powered impact wrench.
- Suitable for overhead applications such as suspending cable tray, strut, pipe hangers and conduit.
- FM Approved.
- ICC-ES listed, ESR-2272
- Made of Zinc Plated carbon steel.
- Setting tool included.



| Self-Tapping Machine Screw - Data | 3/8" |
|-----------------------------------|-------------------------------|
| ANSI Drill Bit Size (in.) | 1/2 |
| Min. Concrete Thickness (in.) | 4 |
| Max. Tightening Torque (ft-lbs) | 8 |
| Min. Embedment Depth (in.) | 1 ⁵ / ₈ |
| Load Capacity Tension (lbs) * | 540 |
| Load Capacity Shear (lbs) * | 825 |

* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.
For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

| UPC/Part Number | Catalog Number | Size | Thread Depth | Box Qty. |
|--|----------------|------|--------------|----------|
| Self-Tapping Machine Screw Anchor | | | | |
| 78205153362 | ATM-37 | 3/8" | 11/16" | 50 |
| Tool | | | | |
| 78205153363 | 6407 SD | 3/8" | -- | 1 |

Read safety/installation instruction sheets in packages before use.

Anchors

Drive Nail Anchors

- For use in concrete, block or brick.
- Anchor is recommended for light duty, tamper-proof applications.
- Not recommended for overhead applications.
- Made of Zamac Alloy material.



| Drive Nail - Data | 3/16" | 1/4" |
|-------------------------------|-------|-------|
| ANSI Drill Bit Size (in.) | 3/16 | 1/4 |
| Fixture Clearance Hole (in.) | 1/4 | 5/16 |
| Head Height (in.) | 7/64 | 9/64 |
| Head Size, O.D. (in.) | 13/32 | 35/64 |
| Min. Embedment Depth (in.) | 3/4 | 5/8 |
| Load Capacity Tension (lbs) * | 125 | 150 |
| Load Capacity Shear (lbs) * | 175 | 205 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Size | Box Qty. |
|--------------------------|-------------------|---------------|----------|
| Drive Nail Anchor | | | |
| 78101102964 | ADN-18-87 | 3/16" x 7/8" | 100 |
| 78101102965 | ADN-25-75 | 1/4" x 3/4" | 100 |
| 78101102966 | ADN-25-100 | 1/4" x 1" | 100 |
| 78101102967 | ADN-25-125 | 1/4" x 1 1/4" | 100 |
| 78101102968 | ADN-25-150 | 1/4" x 1 1/2" | 100 |
| 78101102969 | ADN-25-200 | 1/4" x 2" | 100 |
| 78205153306 | ADN-25-300 | 1/4" x 3" | 100 |

Read safety/installation instruction sheets in packages before use.

Toggle Bolts

- The toggle bolt is a spring wing type hollow wall anchor designed for use in block, wallboard and other hollow base materials.
- Anchor is a two-part assembly consisting of a machine screw and a spring wing toggle.
- Adjustable to accommodate various wall thicknesses up to 2¹/₂".
- Combo round head bolt is provided.
- Made of zinc plated carbon steel.



| Toggle Bolt - Data | 3/16" | | 1/4" | | 3/8" | |
|---------------------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|
| | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) |
| 3/8" Wallboard | 35 | 35 | 55 | 55 | 60 | 65 |
| 1/2" Wallboard | 45 | 50 | 60 | 60 | 65 | 75 |
| 5/8" Wallboard | 60 | 60 | 65 | 65 | 75 | 80 |
| 3/4" Wallboard | 75 | 70 | 80 | 75 | 85 | 90 |
| Hollow Concrete Masonry * | 70 | 70 | 70 | 120 | 195 | 140 |

Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

| UPC/Part Number | Catalog Number | Drill Diameter | Size | Box Qty. |
|--------------------|-------------------|----------------|------------|----------|
| Toggle Bolt | | | | |
| 78205153354 | ATB-18-300 | 1/2" | 3/16" x 3" | 50 |
| 78205153355 | ATB-18-400 | 1/2" | 3/16" x 4" | 50 |
| 78205153356 | ATB-25-300 | 5/8" | 1/4" x 3" | 50 |
| 78205153357 | ATB-25-400 | 5/8" | 1/4" x 4" | 50 |
| 78205153358 | ATB-37-300 | 7/8" | 3/8" x 3" | 25 |
| 78205153359 | ATB-37-400 | 7/8" | 3/8" x 4" | 25 |

Read safety/installation instruction sheets in packages before use.

Anchors

Wall Screws

- One-piece, all steel anchor with high-profile threads for easy fastening into wallboard and other masonry base materials.
- Deep cutting, corkscrew-like threads provide for smooth entry and a strong hold.
- No pre-drilling is required when fastening into wallboard or wood.
- Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled $\frac{3}{16}$ " ANSI hole.
- Installed with a No. 8 drill bit or No. 2 Phillips driver.
- Made of case hardened carbon steel with chrome finish.



| Wall Screw - Data | Minimum Embedment Depth | Load Cap. Tension (lbs.) * | Load Cap. Shear (lbs.) * |
|-------------------------------|-------------------------|----------------------------|--------------------------|
| Concrete * | $\frac{3}{4}$ " | 90 | 260 |
| $\frac{1}{2}$ " Wallboard | NA | 20 | 60 |
| $\frac{5}{8}$ " Wallboard | NA | 35 | 90 |
| $\frac{3}{4}$ " Plywood | NA | 65 | 150 |
| Grout-Filled Concrete Masonry | 1" | 55 | 165 |
| Hollow Concrete Masonry | 1" | 60 | 165 |
| Brick Masonry | $\frac{3}{4}$ " | 70 | 120 |

* Based on concrete compression strength of 4000 psi. Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading contact factory.

| UPC/Part Number | Catalog Number | Size | Head Type | Box Qty. |
|-----------------|----------------|-------------------------------------|-----------|----------|
| 78205153372 | AWS-CH | $\frac{3}{16}$ " x $1\frac{1}{4}$ " | Combo | 100 |
| 78205153373 | AWS-OH | $\frac{3}{16}$ " x $1\frac{1}{4}$ " | Oval | 100 |
| 78205153374 | AWS-PH | $\frac{3}{16}$ " x $1\frac{1}{4}$ " | Pan | 100 |

Plastic Screw Anchors

- One-piece anchor designed for light duty applications in wallboard, concrete and masonry.
- Works in hollow or solid base materials.
- Suitable for screws with various thread sizes and styles - screws may be installed with a screw gun.



| Plastic Screw Anchor - Data | APS-4 | APS-6 | APS-8 |
|-----------------------------------|--------|--------|---------|
| Drill Diameter (in.) | 3/16 | 1/4 | 5/16 |
| Screw Size Range | #4-#10 | #6-#12 | #8-#14 |
| Min. Thread Length (in.) | 1 3/16 | 1 3/8 | 1 13/16 |
| Min. Hole Diameter (in.) | 1 3/8 | 1 9/16 | 2 |
| Min. Wall Thickness (in.) | 1/4 | 3/8 | 1/2 |
| Min. Embedded Thread Length (in.) | 1 7/8 | 2 | 2 9/16 |
| Load Capacity Tension (lbs) * | 18 | 20 | 22 |
| Load Capacity Shear (lbs) * | 32 | 40 | 45 |

* Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Screw Size | Box Qty. |
|------------------------------|----------------|------------|----------|
| Plastic Screw Anchors | | | |
| 78205153315 | APS-4 | #4 - #10 | 100 |
| 78205153316 | APS-6 | #6 - #12 | 100 |
| 78205153319 | APS-8 | #8 - #14 | 100 |

Read safety/installation instruction sheets in packages before use.

Anchors

Plastic Hollow Wall Anchors

- Heavy duty hollow wall anchor designed for use in plaster, wallboard, concrete block, or hollow tile.
- Pre-assembled anchor consisting of a carbon steel wing and a locking cap/ratchet leg assembly molded from engineered plastic.
- When compared to traditional toggles, this anchor can be installed in a smaller hole and does not require a fixture or screw to set it.
- Adjustable to accommodate various wall thickness up to 2 1/2".



| Plastic Hollow Wall - Data | 3/16" | 1/4" | 3/8" | 1/2" |
|---------------------------------|----------|---------|---------|---------|
| Thread Size (UNC) | 3/16"-24 | 1/4"-20 | 3/8"-16 | 1/2"-13 |
| Max. Tightening Torque (ft-lbs) | 5 | 5 | 5 | 5 |
| Minimum Clearance (in.) | 1 7/8" | 1 7/8" | 1 7/8" | 1 7/8" |

| Plastic Hollow Wall - Data | 3/16" | | 1/4" | | 3/8" | | 1/2" | |
|----------------------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) |
| 3/8" Wallboard | 30 | 60 | 35 | 70 | 35 | 70 | 35 | 75 |
| 1/2" Wallboard | 35 | 70 | 35 | 75 | 40 | 75 | 40 | 90 |
| 5/8" Wallboard | 50 | 95 | 55 | 105 | 55 | 105 | 55 | 110 |
| 3/4" Wallboard | 50 | 110 | 55 | 120 | 60 | 120 | 60 | 120 |
| Hollow Concrete Masonry * | 215 | 150 | 270 | 285 | 285 | 465 | 345 | 595 |

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

| UPC/Part Number | Catalog Number | Anchor Size | Drill Dia. | Wall Thickness | Box Qty. |
|-----------------|----------------|-------------|------------|----------------|----------|
| 78205153311 | APH-18 | 3/16" x 4" | 1/2" | 3/8" - 2 1/2" | 50 |
| 78205153312 | APH-25 | 1/4" x 4" | 1/2" | 3/8" - 2 1/2" | 50 |
| 78205153313 | APH-37 | 3/8" x 4" | 3/4" | 3/8" - 2 1/2" | 25 |
| 78205153314 | APH-50 | 1/2" x 4" | 3/4" | 3/8" - 2 1/2" | 25 |

Self-Drilling Wallboard Anchors

- One-piece self drilling anchor designed for use in hollow wallboard for light to medium duty loads.
- Ideal for mounting electrical fixtures, phone systems, and miscellaneous hardware.
- APD/AZD designed for use in 3/8" to 1" wallboard.
- APDM/AZDM designed for use in 3/8" to 5/8" wallboard.
- Kit includes 50 anchors, 50 screws and #2 Phillips Drive Bit.
- Available in engineered Nylon and Zamac Alloy.



| Self-Drilling Wallboard Anchor - Data | APD/AZD | APDM/AZDM |
|---------------------------------------|---------------------------------|--------------------------------|
| Anchor Length (in.) | 1 ¹¹ / ₁₆ | 1 ⁵ / ₁₆ |
| Min. Screw Engagement (in.) | 3/4 | 3/4 |

| Self-Drilling Wallboard Anchor - Data | APD/AZD | | APDM/AZDM | |
|---------------------------------------|----------------|--------------|----------------|--------------|
| | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) |
| 3/8" Wallboard | 15 | 15 | 10 | 15 |
| 1/2" Wallboard | 15 | 20 | 15 | 15 |
| 5/8" Wallboard | 20 | 25 | 20 | 20 |
| 3/4" Wallboard | 20 | 25 | 20 | 20 |

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Screw Size | Box Qty. |
|---------------------------------------|----------------|------------|----------|
| Self-Drilling Wallboard Anchor | | | |
| 78101103314 | APD-8K | #8 x 1" | 50 |
| 78101103318 | AZD-8K | #8 x 1" | 50 |
| 78205153310 | APDM-6K | #6 x 1" | 50 |
| 78205153375 | AZDM-6K | #6 x 1" | 50 |

Read safety/installation instruction sheets in packages before use.

Anchors

Plastic Conical Anchors

- Designed for use with lightweight fixtures.
- Recommended for use in concrete, block and brick.
- Recommended for light duty static applications where holding power is not critical.
- Not recommended for overhead use.
- Kit includes 100 anchors, 100 screws and one drill bit.
- Made of engineered plastic.



| Plastic Conical Anchor - Data | #8 | | #10 - #12 | |
|-------------------------------|-------------------|-----------------|-------------------|-----------------|
| | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) |
| Nominal Weight Concrete * | 110 | 70 | 140 | 90 |
| Hollow Concrete Masonry ** | 60 | 45 | 70 | 55 |
| Clay Brick Masonry *** | 30 | 50 | 55 | 65 |
| Minimum Embedment Depth | 7/8" | 7/8" | 1" | 1" |

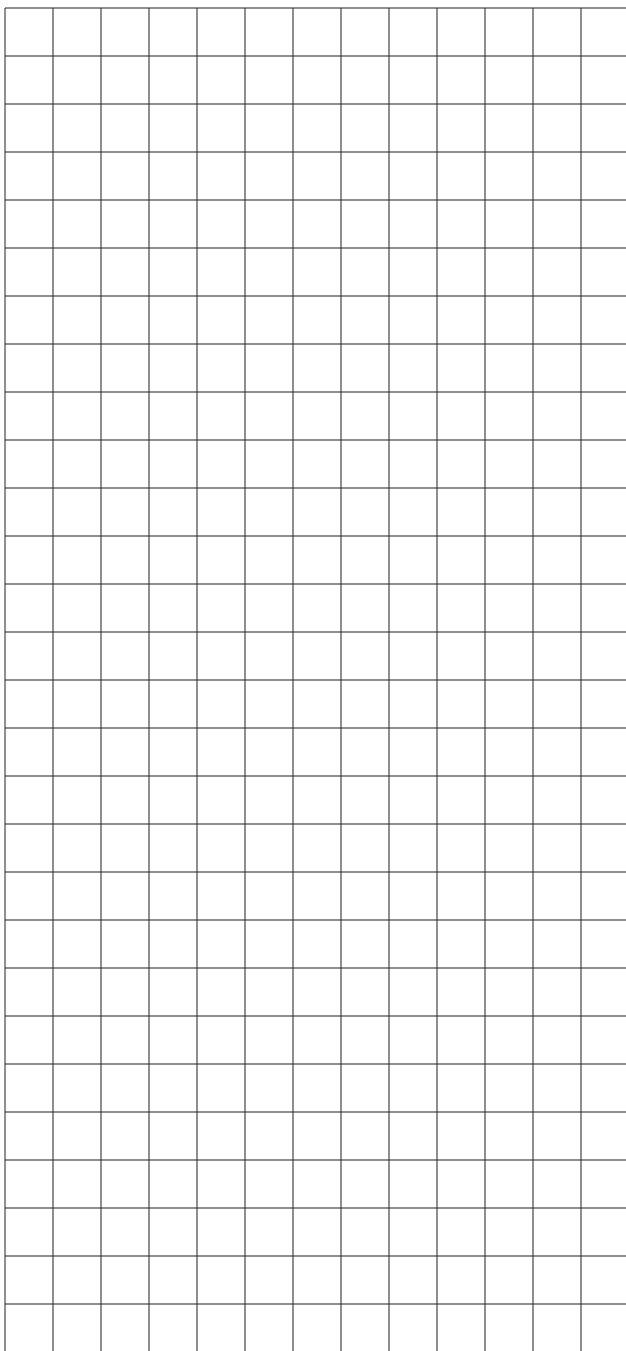
* Based on concrete compression strength of 4000 psi.

** Based on hollow concrete masonry with minimum compression strength of 1500 psi.

*** Based on clay brick masonry with minimum compression strength of 1500 psi.

Loads contain an applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Screw Size | Box Qty. |
|-----------------|----------------|------------|----------|
| 78205153307 | APC-8K | #8 x 1" | 100 |
| 78205153308 | APC-10K | #10 x 1" | 100 |
| 78205153309 | APC-12K | #12 x 1" | 100 |



Anchors

Code Compliance for Spring Steel Fasteners Based on the 2005 NEC®

Eaton's B-Line Business has recognized the need for a reference source, detailing the National Electrical Code requirements for Spring Steel Fasteners. The following pages are reprinted portions of the 2005 NEC. These sections address nearly every aspect of fastener installations and offer design solutions for the electrical industry. If a topic has not been covered sufficiently to answer a specific question or if additional information is desired, contact our engineering department.

The following information has been carefully checked for accuracy and is believed to be correct and current. No warranty, either expressed or implied, is made as to either its applicability to, or its compatibility with, specific requirements, of this information, nor for damages consequent to its use. All design characteristics, specifications, tolerances and similar information are subject to change without notice.

To obtain a copy of the NEC® contact:
National Fire Protection Association
1 Batterymarch Park
P.O. Box 9101
Quincy, Massachusetts 02269-9101
1-800-344-3555

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90.4 Enforcement. This *Code* is intended to be suitable for mandatory application by governmental bodies that exercise legal jurisdiction over electrical installations, including signaling and communications systems, and for use by insurance inspectors. The authority having jurisdiction for enforcement of the *Code* has the responsibility for making interpretations of the rules, for deciding upon the approval of equipment and materials, and for granting the special permission contemplated in a number of the rules.

By special permission, the authority having jurisdiction may waive specific requirements in this *Code* or permit alternate methods where it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety. *

This *Code* may require new products, constructions, or materials that may not yet be available at the time the *Code* is adopted. In such event, the authority having jurisdiction may permit the use of the products, constructions, or materials that comply with the most recent previous edition of this *Code* adopted by the jurisdiction.

Article 100 - Definitions

Listed. Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that the equipment, material, or services either meets appropriate designated standards or has been tested and found suitable for a specific purpose.

FPN: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is labeled. Use of the system employed by the listing organization allows the authority having jurisdiction to identify a listed product.

***Note:** Local codes may override certain requirements of the National Electrical Code®. Consult your local inspector for further details.

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300.4 Protection Against Physical Damage.

Where subject to physical damage, conductors shall be adequately protected.

(A) Cables and Raceways through Wood Members.

- (1) **Bored Holes.** . . . , holes shall be bored so that the edge of the hole is not less than 32mm (1¹/₄ in.) from the nearest edge of the wood member. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by screws or nails by a steel plate or bushing, at least 1.6 mm (1/16 in.) thick, and of appropriate length and width installed to cover the area of the wiring. (See Figure 1)

Exception No. 1: Steel plates shall not be required to protect RMC, IMC, RNC, or EMT.

*Exception No. 2: A **listed** and marked steel plate less than 1.6 mm (1/16 in.) thick that provides equal or better protection against nail or screw penetration shall be permitted.*

- (2) **Notches in Wood.** . . . , cables or raceways shall be permitted to be laid in notches in wood studs, joists, rafters, or other wood members where the cable or raceway at those points is protected against nails or screws by a steel plate at least 1.6 mm (1/16 in.) thick, and of appropriate length and width, installed to cover the area of the wiring. The steel plate shall be installed before the building finish is applied. (See Figure 1)

Exception: See Exceptions 1 & 2 from (1) Bored Holes

(B) Nonmetallic-Sheathed Cables and Electrical Nonmetallic Tubing through Metal Framing Members.

- (1) **Nonmetallic-Sheathed Cable.** . . . where nonmetallic-sheathed cables pass through either factory or field punched, cut or drilled slots or holes in metal members, the cable shall be protected by listed bushings or listed grommets covering all metal edges that are securely fastened in the opening prior to installation of the cable. (See Figure 2)

- (2) **Nonmetallic-Sheathed Cable and Electrical Nonmetallic Tubing.** Where nails or screws are likely to penetrate nonmetallic-sheathed cable or electrical nonmetallic tubing, a steel sleeve, steel plate, or steel clip not less than 1.6 mm (1/16 in.) in thickness shall be used to protect the cable or tubing. (See Figure 1)

Exception: See Exception 2 from (A)(1) Bored Holes

(D) Cables and Raceways Parallel to Framing Members and Furring Strips.

... , the cable or race way shall be installed and supported so that the nearest outside surface of the cable or raceway is not less than 32 mm (1¹/₄ in.) from the nearest edge of the framing member or furring strips where nails or screws are likely to penetrate. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by nails or screws by a steel plate, sleeve, or equivalent at least 1.6 mm (1¹/₁₆ in.) thick

(See Figures 1, 3, 4)

Exception 1: See Exception 1 from (A)(1) Bored Holes

Exception No. 2: For concealed work in finished buildings, or finished panels for prefabricated buildings where such supporting is impracticable, it shall be permissible to fish the cables between access points.

Exception 3: See Exception 2 from (A)(1) Bored Holes

(E) Cables and Raceways Installed in Shallow Grooves.

... , shall be protected by 1.6 mm (1¹/₁₆ in.) thick steel plate, sleeve, or equivalent or by not less than 32 mm (1¹/₄ in.) free space for the full length of the groove in which the cable or raceway is installed.

(See Figure 1)

Exception: See Exceptions 1 & 2 from (A)(1) Bored Holes

Figure 1 - BM3 & BM3M

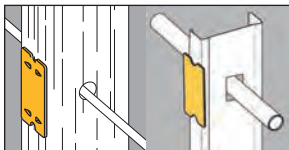


Figure 2 - BM1/BM2

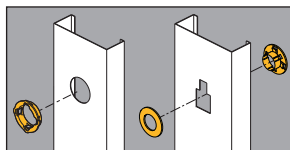
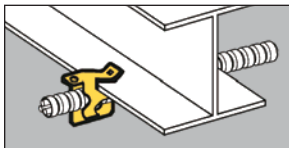


Figure 3 - BRC4 & BRC6M



Figure 4 - BX4



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300.11 Securing and Supporting.

(A) Secured in Place. Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sole support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and race ways shall not be supported by ceiling grids.

(1) Fire Rated Assemblies. Wiring located within the cavity of a fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided and shall be permitted to be attached to the assembly. Where independent support wires are used, they shall be distinguishable by color, tagging, or other effective means from those that are part of the fire-rated design.

Exception: *The ceiling support system shall be permitted to support wiring and equipment that have been tested as part of the fire-rated assembly.*

(2) Non-Fire-Rated Assemblies. Wiring located within the cavity of a non-fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided.

Exception: *The ceiling support system shall be permitted to support branch-circuit wiring and associated equipment where installed in accordance with the ceiling system manufacturer's instructions.*

Note: A previously acceptable practice, namely supporting cable and raceways by the ceiling grid, is no longer allowed. The intent of Article 300.11 is simple: an independent means of secure support must be provided for cable assemblies, raceways, boxes, etc. (See Figures 5 - 8)

Typical Drop Wire / Rod Applications

Additional drop wires, which are installed specifically for cable support, must be secured at both ends. When independent wires are used in fire-rated assemblies, they must be distinguishable from those wires that are part of the fire-rated assembly. B-Line's BA-311 series can be used to secure support wire to the ceiling grid. Its bright yellow color allows it to be easily recognized by inspectors. (See Figure 8)

Upper Attachments

Figure 5 - BE Series

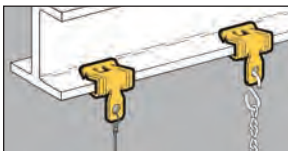


Figure 6 - BF3 Series & BF4 Series

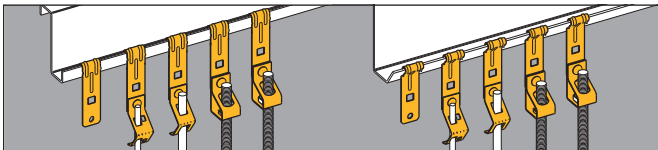


Figure 7 - BG-8-12-S18-W2

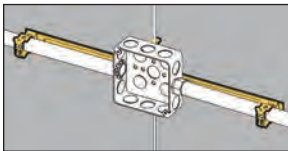
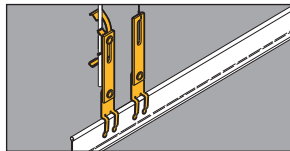


Figure 8 - BA311



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310.15 Ampacities For Conductors Rated 0-2000 Volts.

(B) Tables

(2) Adjustment Factors.

- (a) More Than Three Current-Carrying Conductors in a Raceway or Cable. Where the number of current-carrying conductors in a raceway or cable exceeds three, or where single conductors or multiconductor cables are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing and are not installed in raceways, the allowable ampacity of each conductor shall be reduced as shown in Table 310.15(B)(2)(a). Each current-carrying conductor of a paralleled set of conductors shall be counted as a current-carrying conductor.

FPN No. 1: See Annex B, Table B.310.11, for adjustment factors for more than three current-carrying conductors in a raceway or cable with load diversity.

FPN No. 2: See 366.23(A), for correction factors for conductors in sheet metal auxiliary gutters and 376.22 for correction factors for conductors in metal raceways.

Exception No. 1: Where conductors of different systems, as provided in 300.3, are installed in a common raceway or cable, the derating factors shown in Table 310.15(B)(2)(a) shall apply only to the number of power and lighting conductors (Articles 210, 215, 220, and 230).

Exception No. 2: For conductors installed in cable trays, the provisions of 392.11 shall apply.

Exception No. 3: Derating factors shall not apply to conductors in nipples having a length not exceeding 600 mm (24 in.).

Exception No. 4: Derating factors shall not apply to underground conductors entering or leaving an outdoor trench if those conductors have physical protection in the form of rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit having a length not exceeding 3.05 m (10 ft) and if the number of conductors does not exceed four.

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Exception No. 5: Adjustment factors shall not apply to Type AC cable or to Type MC cable without an overall outer jacket under the following conditions:

- (1) *Each cable has not more than three current-carrying conductors.*
- (2) *The conductors are 12 AWG copper.*
- (3) *Not more than 20 current-carrying conductors are bundled, stacked, or supported on "bridle rings".*
(See Figure 9)

A 60 percent adjustment factor shall be applied where current-carrying conductors in these cables that are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing exceeds 20.

- (b) *More Than One Conduit, Tube, or Raceway Spacing between conduits, tubing, or raceways shall be maintained.*

Figure 9 - Bridle Rings

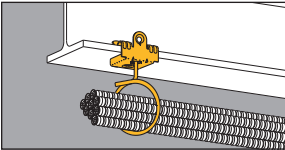
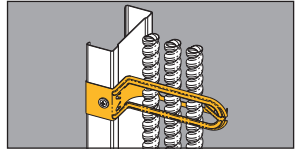


Figure 10 - BRC6M



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NEC Requirements

314.23 Supports. Enclosures within the scope of this article shall be supported in accordance with one or more of the provisions in 314.23 (A) through (H).

(C) Mounting in Finished Surfaces. An enclosure mounted in a finished surface shall be rigidly secured thereto by clamps, anchors, or fittings identified for the application. *(See Figures 11 & 12)*

(D) Suspended Ceilings. An enclosure mounted to structural or supporting elements of a suspended ceiling shall be not more than 1650 cm³ (100 in.³) in size and shall be securely fastened in place in accordance with either (D)(1) or (D)(2).

(1) Framing Members. An enclosure shall be fastened to the framing members by mechanical means such as bolts, screws, or rivets, or by the use of clips or other securing means identified for use with the type of ceiling framing member(s) and enclosure(s) employed. . . . *(See Figure 13)*

(2) Support Wires. The installation shall comply with the provisions of 300.11(A). The enclosure shall be secured, using methods identified for the purpose to ceiling support wire(s), including any additional support wire(s) installed for that purpose. Support wire(s) used for enclosure support shall be fastened at each end so as to be taut within the ceiling cavity. *(See Figure 14)*

(E) Raceway Supported Enclosures, Without Devices, Luminaries (Fixtures), or Lampholders.

. . . It shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 900 mm (3 ft) of the enclosure, or within 450 mm (18 in.) of the enclosure if all conduit entries are on the same side. *(See Figure 15)*

(F) Raceway Supported Enclosures, With Devices, Luminaries (Fixtures), or Lampholders. . . . It

shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 450 mm (18 in.) of the enclosure. *(See Figure 15)*

314.27 Outlet Boxes

(B) Maximum Luminaire (Fixture) Weight. Outlet boxes or fitting installed as required by 314.23 shall be permitted to support luminaries (lighting fixtures) weighing 23 kg (50 lbs.) or less. A luminaire (lighting fixture) that weighs more than 23 kg (50 lbs.) shall be supported independently of the outlet box unless the outlet box is listed for the weight to be supported. *(See Figure 13)*

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(D) Boxes at Ceiling-Suspended (Paddle) Fan Outlets.

Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support of a ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported.

(See Figure 16)

Figure 11 - BB4-23

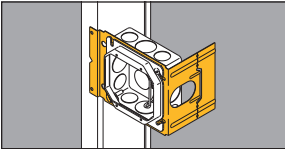


Figure 12 - BB9 & BB12

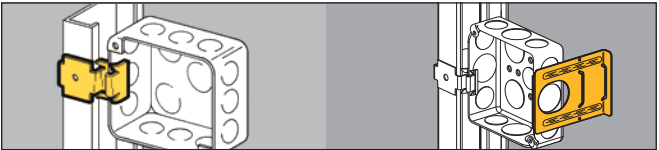


Figure 13 - BA50

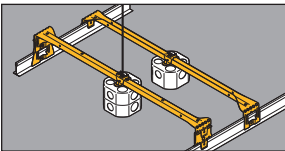


Figure 14 - BG-8-12-S18-W2

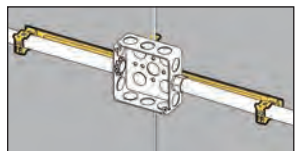


Figure 15 - BG-8-12-S18-U-2-4

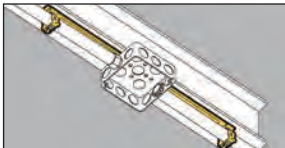
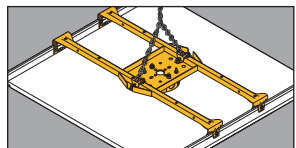


Figure 16 - BA50F



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NEC Requirements

Article 320 Armored Cable : Type AC

320.17 Through or Parallel to Framing Members.

Type AC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

320.30 Securing and Supporting.

- (A) **General.** Type AC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings, designed and installed so as not to damage the cable.
- (B) **Securing.** Unless otherwise provided, Type AC cable shall be secured within 300 mm (12 in.) of every out let box, junction box, cabinet, or fitting and at intervals not exceeding 1.4 m (4¹/₂ ft) where installed on or across framing members. (See Figures 19 -22)
- (C) **Supporting.** Unless otherwise provided, Type AC cable shall be supported at intervals not exceeding 1.4 m (4¹/₂ ft). Horizontal runs of Type AC cable installed in wooden or metal framing members or similar supporting means shall be considered supported where such support does not exceed 1.4 m (4¹/₂ ft) intervals.

Article 330 Metal-Clad Cable : Type MC

330.17 Through or Parallel to Framing Members.

Type MC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

330.30 Securing and Supporting.

- (A) **General.** Type MC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings or other approved means designed and installed so as not to damage the cable.
- (B) **Securing.** Unless otherwise provided, cables shall be secured at intervals not exceeding 1.8 m (6 ft). Cables containing four or fewer conductors sized no larger than 10 AWG shall be secured within 300 mm (12 in.) of every box, cabinet, fitting or other cable termination. (See Figure 19 - 22)
- (C) **Supporting.** Unless otherwise provided, cables shall be supported at intervals not exceeding 1.8 m (6ft). Horizontal runs of Type MC cable installed in wooden or metal framing members or similar supporting means shall be considered supported and secured where such support does not exceed 1.8 m (6 ft) intervals.

Article 334 Nonmetallic Sheathed Cables

334.17 Through or Parallel to Framing Members.

Type NM, NMC, or NMS cable shall be protected in accordance with 300.4 where installed through or

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parallel to framing members. Grommets used as required in 300.4(B)(1) shall remain in place and be **listed** for the purpose of cable protection.

(See Figures 17 & 18)

334.30 Securing and Supporting. Nonmetallic-sheathed cable shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings designed and installed so as not to damage the cable, at intervals not exceeding 1.4 m (4¹/₂ ft) and within 300 mm (12 in.) of every outlet box, junction box, cabinet, or fitting. Flat cables shall not be stapled on edge. Sections of cable protected from physical damage by raceway shall not be required to be secured within the raceway.

(See Figures 19 - 22)

(A) Horizontal Runs Through Holes and Notches.

In other than vertical runs, cables installed in accordance with 300.4 shall be considered to be supported and secured where such support does not exceed 1.4 m (4¹/₂ ft) intervals and the nonmetallic-sheathed cable is securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other nonmetallic-sheathed cable termination.

FPN: See 314.17(C) for support where nonmetallic boxes are used.

Figure 17 - BM1/BM2

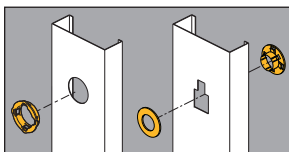


Figure 18 - BM3 & BM3M

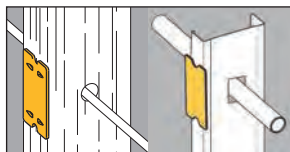


Figure 19 - BG-8-12-H7

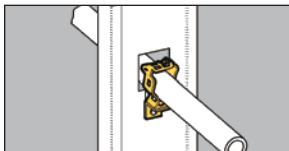


Figure 20 - BRC4 & BRC6M

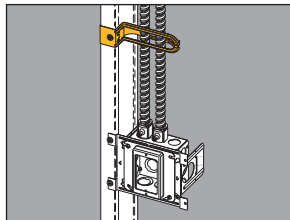


Figure 21 - BX5

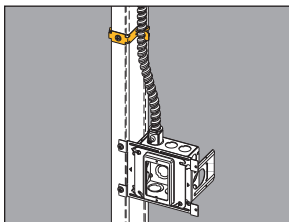
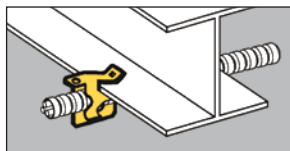


Figure 22 - BX4



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NEC Requirements

Article 344 Rigid Metal Conduit : Type RMC

344.30 Securing and Supporting.

(A) Securely Fastened. RMC shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box, device box, cabinet, conduit body, or other conduit termination. Fastening shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft). Where approved, conduit shall not be required to be securely fastened within 900 mm (3 ft) of the service head for above-the-roof termination of a mast.

(See Figures 23 - 25)

(B) Supports. RMC shall be supported in accordance with one of the following:

- (1) Conduit shall be supported at intervals not exceeding 3 m (10 ft).
- (2) The distance between supports for straight runs of conduit shall be permitted in accordance with Table 344.30(B)(2),
- (3) Exposed vertical risers from industrial machinery or fixed equipment shall be permitted to be supported at intervals not exceeding 6 m (20 ft)
- (4) Horizontal runs of RMC supported by openings through framing members at intervals not exceeding 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. *(See Figure 26)*

Article 348 Flexible Metal Conduit: Type FMC

348.30 Securing and Supporting.

(A) Securely Fastened. FMC shall be securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4 m (4¹/₂ ft).

(See Figures 23 - 25)

(B) Supports. Horizontal runs of FMC supported by openings through framing members at intervals not greater than 1.4 m (4¹/₂ ft) and securely fastened within 300 mm (12 in) of termination points shall be permitted. *(See Figure 26)*

* See NFPA 70-2005 for exceptions.

Article 358 Electrical Metallic Tubing - Type EMT

358.30 Securing and Supporting.

(A) Securely Fastened. EMT shall be securely fastened in place at least every 3 m (10 ft). In addition, each EMT run between termination points shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box,

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device box, cabinet, conduit body, or other tubing termination. (See Figures 23 - 25)

Exception No. 1: Fastening of unbroken lengths shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft).

Exception No. 2: For concealed work in finished buildings or prefinished wall panels where such securing is impracticable, unbroken lengths (with out coupling) of EMT shall be permitted to be fished.

- (B) Supports.** Horizontal runs of EMT supported by openings through framing members at intervals not greater than 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Article 362 Electrical Nonmetallic Tubing - Type ENT

362.30 Securing and Supporting.

- (A) Securely Fastened.** ENT shall be securely fastened at intervals not exceeding 900 mm (3 ft). In addition, ENT shall be securely fastened in place within 900 mm (3 ft) of each outlet box, device box, junction box, cabinet, or fitting where it terminates. (See Figures 23 - 25)

Exception No. 1: Lengths not exceeding a distance of 1.8 m (6 ft) from a luminaire (fixture) terminal connection for tap connection to lighting luminaires (fixtures) shall be permitted without being secured.

Exception No. 2: Lengths not exceeding 1.8 m (6 ft) from the last point where the raceway is securely fastened for connection within an accessible ceiling to luminaire(s) [lighting fixture(s)] or other equipment.

- (B) Supports.** Horizontal runs of ENT supported by openings in framing members at intervals not exceeding 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Figure 23 - BG-8-12-S18-U-2-4

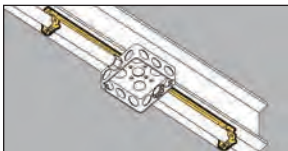


Figure 25 - BG-8-12-B1

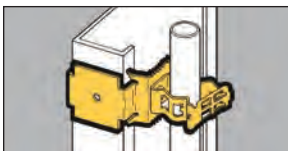


Figure 24 - BB38

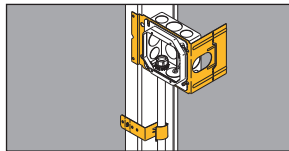
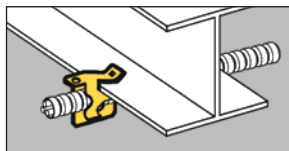


Figure 26 - BX4



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NEC Requirements

Article 410 Luminaries (Lighting Fixtures), Lampholders, and Lamps

410.16 Means of Support.

(A) Outlet Boxes. Outlet boxes or fittings installed as required by 314.23 and complying with the provisions of 314.27(A) and 314.27(B) shall be permitted to support luminaries (fixtures).

(C) Suspended Ceilings. Framing members of suspended ceiling systems used to support luminaries (fixtures) shall be securely fastened to each other and shall be securely attached to the building structure at appropriate intervals. Luminaries (fixtures) shall be securely fastened to the ceiling framing member by mechanical means such as bolts, screws, or rivets.

Listed clips identified for use with the type of ceiling framing member(s) and luminaire(s) [fixture(s)] shall also be permitted. *(See Figures 27 - 31)*

410.104 Fastening. Lighting track shall be securely mounted so that each fastening is suitable for supporting the maximum weight of luminaries (fixtures) that can be installed. Unless identified for supports at greater intervals, a single section 1.2 m (4 ft.) or shorter in length shall have two supports, and, where installed in a continuous row, each individual section of not more than 1.2 m (4 ft.) in length shall have one additional support. *(See Figure 30)*

422.18 Support of Ceiling-Suspended (Paddle) Fans

Ceiling-suspended (paddle) fans shall be supported independently of an outlet box or by **listed** outlet box or outlet box systems identified for the use and installed in accordance with 314.27(D). *(See Figure 32)*

Article 800 Communication Circuits

800.24 Mechanical Execution of Work.

Communications circuits and equipment shall be installed in a neat and workmanlike manner. Cables installed exposed on the surface of ceilings and sidewalls shall be supported by the building structure in such a manner that the cable will not be damaged by normal building use. Such cables shall be secured by straps, staples, hangers, or similar fittings designed and installed so as not to damage the cable. The installation shall also conform with 300.4(D) and 300.11.

FPN: Accepted industry practices are described in ANSI/NECA/BICSI 568-2001, Standard for Installing Commercial Building Telecommunications Cabling, and other ANSI-approved installation standards.

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Figure 27 - BA15

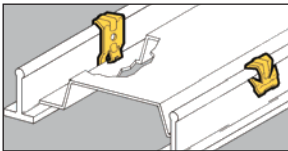


Figure 28 - BA1



Figure 29 - BA40

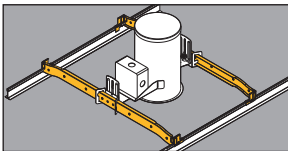


Figure 30 - BA 4-16 Series

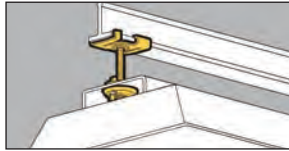


Figure 31 - BAX Series

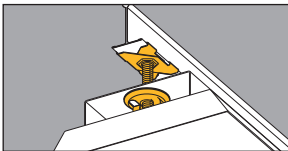
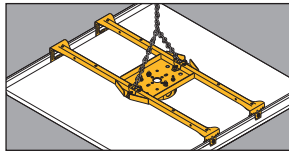


Figure 32 - BA50F



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ANSI/TIA/EIA-569-A

4. Horizontal pathways and related spaces

4.6 Ceiling pathway

4.6.2 Design guidelines

4.6.2.1 Planning. The design shall provide a suitable means for supporting cable from the telecommunications closet to the work areas to be served. Cable shall not be laid directly on the ceiling tile or rails.

4.6.2.2 Clearance. A minimum of 75 mm (3 in.) clear vertical space shall be available above the ceiling tiles for the horizontal cabling and pathway. (See Figure 33)

4.6.5 Cable support

4.6.5.1 Where zone conduit or cable tray is not available in a suspended ceiling space and where telecommunications cables are allowed to be placed in the ceiling, adequate open-top cable supports, located on 1220-1525 mm (48-60 inch) centers, shall be provided. Where larger quantities of cables (50-75 cables) bunched together in the ceiling at a congested area, such as close to the telecommunications closet, special supports shall be designed and installed to carry the additional weight. (See Figures 33 & 34)

4.6.5.2 A suspended ceiling support rod or wire may be used to mount appropriate cable fasteners loaded with multiple cables up to the total weight for which the fastener is approved. The T-bar rail of a suspended ceiling may be used to mount appropriate cable fasteners loaded with cable up to a total weight of 0.7 kg/m (0.45 lb/ft). The fastener design shall not interfere with the inserting or removing of the ceiling tile. (See Figures 33 & 34)

NOTES

- 1) A weight of 1.0 kg (2.2 lbs.) or 0.7 kg/m with spacing of support wire/rod at 1.5 m (5 ft.) is equivalent to a bundle of sixteen 4-pair 24 AWG UTP cables, including fasteners.
- 2) If any side pull is exerted on the support wire, like a turn in direction of the cables, the level of the ceiling tee rail could be affected.

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Figure 33 - BCHxx-A28

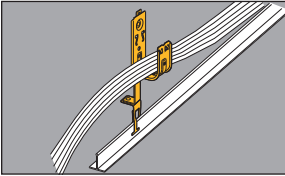
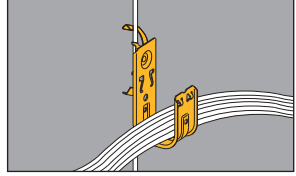


Figure 34 - BCHxx-W2



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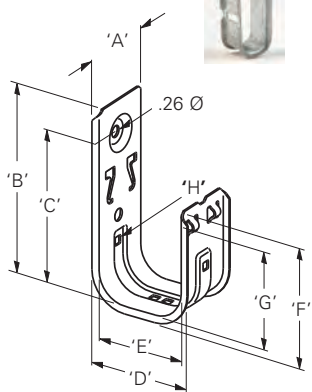
Reference Data

Cable Hook Technical Data

Single-Sided Single-Tier Cable Fasteners

| Hook Size | 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | 'G' | 'H' |
|--------------------------------|------|------|------|------|------|------|------|-----|
| In. | In. | In. | In. | In. | In. | In. | In. | In. |
| 3/4 | .88 | 3.18 | 2.68 | 1.00 | .75 | 1.69 | .94 | – |
| 1 ⁵ / ₁₆ | 1.62 | 3.62 | 2.81 | 1.69 | 1.31 | 2.00 | 1.37 | .20 |
| 2 | 1.62 | 4.31 | 3.50 | 2.38 | 2.00 | 2.69 | 2.06 | .20 |
| 4 | 2.00 | 6.81 | 5.56 | 4.55 | 4.00 | 4.84 | 4.06 | .31 |

BCH12

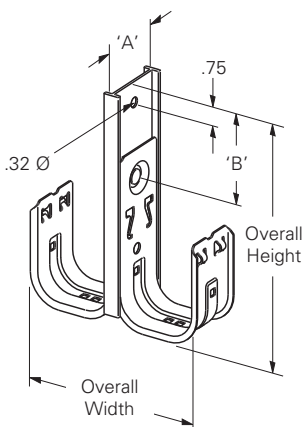


Load Capacity

| Cable Hook Size | Static Load Capacity (S.F. 3) | |
|--------------------------------|-------------------------------|------|
| | Galvanized & Stainless Steel | Lbs. |
| In. | | |
| 3/4 | 30 | |
| 1 ⁵ / ₁₆ | 30 | |
| 2 | 30 | |
| 4 | 30 | |

Stated loads are per hook and should not be exceeded. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Double-Sided Single-Tier Cable Fasteners

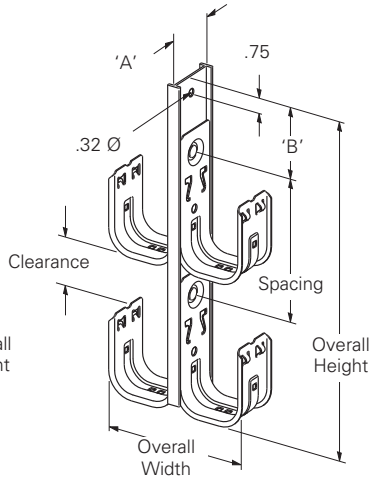
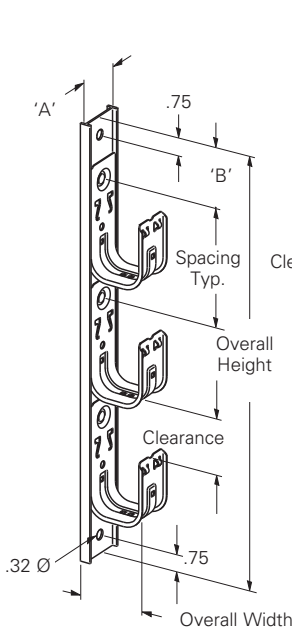


| Hook Size | 'A' | 'B' | Overall Height | Overall Width |
|--------------------------------|------|------|----------------|---------------|
| In. | In. | In. | In. | In. |
| 1 ⁵ / ₁₆ | 1.90 | 2.50 | 5.50 | 3.47 |
| 2 | 1.90 | 2.50 | 6.19 | 4.85 |
| 4 | 2.38 | 2.94 | 9.00 | 9.19 |

Cable Hook Technical Data

Double-Sided Double-Tier Cable Fasteners

| Hook Size In. | 'A' In. | 'B' In. | Spacing In. | Clearance In. | Overall Height In. | Overall Width In. |
|------------------|------------|------------|----------------|------------------|-----------------------|----------------------|
| 15/16 | 1.90 | 2.50 | 3.75 | 1.94 | 9.25 | 3.47 |
| 2 | 1.90 | 2.50 | 4.75 | 2.25 | 10.94 | 4.85 |
| 4 | 2.38 | 2.94 | 9.38 | 4.50 | 18.20 | 9.19 |



Single-Sided Multi-Tier Cable Fasteners (2 thru 6 Tier)

| Hook Size In. | No. Tiers | 'A' In. | 'B' In. | Spacing In. | Clearance In. | Overall Height In. | Overall Width In. |
|------------------|-----------|------------|------------|----------------|------------------|-----------------------|----------------------|
| 15/16 | 2 | 1.90 | 2.50 | 3.75 | 1.94 | 11.00 | 1.96 |
| | 3 | 1.90 | 2.50 | 3.75 | 1.94 | 14.75 | 1.96 |
| | 4 | 1.90 | 2.50 | 3.75 | 1.94 | 18.50 | 1.96 |
| | 5 | 1.90 | 2.50 | 3.75 | 1.94 | 22.25 | 1.96 |
| | 6 | 1.90 | 2.50 | 3.75 | 1.94 | 26.00 | 1.96 |
| 2 | 2 | 1.90 | 2.50 | 4.75 | 2.25 | 12.75 | 2.66 |
| | 3 | 1.90 | 2.50 | 4.75 | 2.25 | 17.50 | 2.66 |
| | 4 | 1.90 | 2.50 | 4.75 | 2.25 | 22.25 | 2.66 |
| | 5 | 1.90 | 2.50 | 4.75 | 2.25 | 27.00 | 2.66 |
| | 6 | 1.90 | 2.50 | 4.75 | 2.25 | 31.75 | 2.66 |
| 4 | 2 | 2.38 | 2.94 | 8.75 | 3.19 | 19.33 | 4.82 |
| | 3 | 2.38 | 2.94 | 8.75 | 3.19 | 28.08 | 4.82 |

Reference Data

Rigid Steel Conduit (Heavy Wall Conduit)

| Nominal Conduit Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight Per 100 Ft. With Couplings Attached | Weight of Conduit and Conductors Per 100 Ft.* |
|----------------------|------------------|-------------------------|--|---|
| In. | In. | In. | Lbs. | Lbs. |
| 3/8 | 0.675 | 0.493 | 51.5 | 65.1 |
| 1/2 | 0.840 | 0.632 | 79.0 | 101.1 |
| 3/4 | 1.050 | 0.836 | 105.0 | 145.8 |
| 1 | 1.315 | 1.063 | 153.0 | 219.3 |
| 1 1/4 | 1.660 | 1.394 | 201.0 | 318.3 |
| 1 1/2 | 1.900 | 1.624 | 249.0 | 408.8 |
| 2 | 2.375 | 2.083 | 332.0 | 593.8 |
| 2 1/2 | 2.875 | 2.489 | 527.0 | 901.0 |
| 3 | 3.500 | 3.090 | 682.0 | 1259.0 |
| 3 1/2 | 4.000 | 3.570 | 831.0 | 1604.0 |
| 4 | 4.500 | 4.050 | 972.0 | 1967.0 |

Intermediate Metal Conduit (IMC)

| Nominal Conduit Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight Per 100 Ft. With Couplings Attached | Weight of Conduit and Conductors Per 100 Ft.* |
|----------------------|------------------|-------------------------|--|---|
| In. | In. | In. | Lbs. | Lbs. |
| 1/2 | 0.815 | 0.745 | 60.0 | 82.1 |
| 3/4 | 1.029 | 0.954 | 82.0 | 122.8 |
| 1 | 1.290 | 1.205 | 116.0 | 182.3 |
| 1 1/4 | 1.638 | 1.553 | 150.0 | 267.3 |
| 1 1/2 | 1.883 | 1.793 | 182.0 | 341.8 |
| 2 | 2.360 | 2.266 | 242.0 | 503.8 |
| 2 1/2 | 2.857 | 2.727 | 401.0 | 775.0 |
| 3 | 3.476 | 3.346 | 493.0 | 1069.0 |
| 3 1/2 | 3.971 | 3.841 | 573.0 | 1346.0 |
| 4 | 4.466 | 4.336 | 638.0 | 1632.0 |

Dimensions taken from ANSI C80.3 - 1977.

* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

Electrical Metallic Tubing (EMT) - Thinwall Conduit

| Nominal Conduit Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight Per 100 Ft. With Couplings Attached | Weight of Conduit and Conductors Per 100 Ft.* |
|----------------------|------------------|-------------------------|--|---|
| In. | In. | In. | Lbs. | Lbs. |
| 3/8 | 0.577 | 0.493 | 23.0 | 36.6 |
| 1/2 | 0.706 | 0.622 | 28.5 | 50.6 |
| 3/4 | 0.922 | 0.824 | 43.5 | 84.3 |
| 1 | 1.163 | 1.049 | 64.0 | 130.3 |
| 1 1/4 | 1.510 | 1.380 | 95.0 | 212.3 |
| 1 1/2 | 1.740 | 1.610 | 110.0 | 269.8 |
| 2 | 2.197 | 2.067 | 140.0 | 401.8 |
| 2 1/2 | 2.875 | 2.731 | 205.0 | 579.0 |
| 3 | 3.500 | 3.356 | 250.0 | 826.3 |
| 3 1/2 | 4.000 | 3.834 | 325.0 | 1098.0 |
| 4 | 4.500 | 4.334 | 370.0 | 1364.0 |

Rigid Aluminum Conduit

| Nominal Conduit Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight Per 100 Ft. With Couplings Attached | Weight of Conduit and Conductors Per 100 Ft.* |
|----------------------|------------------|-------------------------|--|---|
| In. | In. | In. | Lbs. | Lbs. |
| 1/2 | 0.840 | 0.632 | 27.4 | 49.5 |
| 3/4 | 1.050 | 0.836 | 36.4 | 77.2 |
| 1 | 1.315 | 1.063 | 53.0 | 119.3 |
| 1 1/4 | 1.660 | 1.394 | 69.6 | 186.9 |
| 1 1/2 | 1.900 | 1.624 | 82.2 | 242.0 |
| 2 | 2.375 | 2.083 | 115.7 | 377.5 |
| 2 1/2 | 2.875 | 2.489 | 182.5 | 556.5 |
| 3 | 3.500 | 3.090 | 238.9 | 815.2 |
| 3 1/2 | 4.000 | 3.570 | 287.7 | 1061.0 |
| 4 | 4.500 | 4.050 | 340.0 | 1334.0 |
| 5 | 5.563 | 5.073 | 465.4 | 2028.0 |
| 6 | 6.625 | 6.093 | 612.5 | 2870.0 |

Dimensions taken from ANSI C80.3 - 1977.

* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

Reference Data

Schedule 40 PVC Plastic Pipe

| Nominal Pipe Size | Outside Diameter | Wall Thickness | Weight of Pipe | Weight of Water |
|-------------------|------------------|----------------|----------------|-----------------|
| In. | In. | In. | Lbs. Per Ft. | Lbs. Per Ft. |
| 1/8 | 0.405 | 0.068 | 0.04 | 0.02 |
| 1/4 | 0.540 | 0.088 | 0.07 | 0.04 |
| 3/8 | 0.675 | 0.091 | 0.10 | 0.08 |
| 1/2 | 0.840 | 0.109 | 0.15 | 0.10 |
| 3/4 | 1.050 | 0.113 | 0.20 | 0.20 |
| 1 | 1.315 | 0.133 | 0.30 | 0.40 |
| 1 1/4 | 1.660 | 0.140 | 0.40 | 0.60 |
| 1 1/2 | 1.900 | 0.145 | 0.50 | 0.90 |
| 2 | 2.375 | 0.155 | 0.60 | 1.40 |
| 2 1/2 | 2.875 | 0.203 | 1.00 | 2.10 |
| 3 | 3.500 | 0.216 | 1.30 | 3.20 |
| 3 1/2 | 4.000 | 0.226 | 1.60 | 4.30 |
| 4 | 4.500 | 0.237 | 1.90 | 5.50 |

Electrical Non-Metallic Tubing (ENT)

| Nominal Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight of Conduit | Weight of Conduit and Conductors |
|--------------|------------------|-------------------------|---------------------------|----------------------------------|
| In. | In. | In. | Lbs. Per 100 Ft. | Lbs. Per 100 Ft. |
| 1/2 | 0.840 | 0.560 | 11.0 | 33.1 |
| 3/4 | 1.050 | 0.760 | 14.0 | 54.8 |
| 1 | 1.315 | 1.000 | 20.0 | 86.3 |
| 1 1/4 | 1.660 | 1.402 | 19.0 | 136.3 |
| 1 1/2 | 1.990 | 1.554 | 27.0 | 186.8 |
| 2 | 2.375 | 2.030 | 32.0 | 261.8 |

All Threaded Rod (ATR)

| Thread Size | Root Area | Design Load (SF=5) |
|-------------|------------------------|--------------------|
| 1/4"-20 | 0.027 in. ² | 240 lbs. |
| 5/16"-18 | 0.045 in. ² | 400 lbs. |
| 3/8"-16 | 0.068 in. ² | 610 lbs. |

Tabulated loads are based on an allowable tensile stress of 12000 psi reduced by 25% resulting in 9000 psi. From ANSI/MSS SP-58, Table 3.

Dimensions taken from ANSI B1.1 1982 Unified Inch Screw Threads. All threads are UNCR series.

MC -- Metal Clad Cable Specifications

| Trade Size | Grounding Conductor AWG | Armor O.D. In. | Approximate Wt. Per 100 Ft. Lbs. |
|--------------|-------------------------|----------------|----------------------------------|
| 14-2 Solid | 14 | 0.470 | 17.5 |
| 14-3 Solid | 14 | 0.480 | 20.5 |
| 14-4 Solid | 14 | 0.510 | 23.0 |
| 12-2 Solid | 12 | 0.495 | 21.5 |
| 12-3 Solid | 12 | 0.530 | 25.5 |
| 12-4 Solid | 12 | 0.565 | 29.5 |
| 10-2 Solid | 10 | 0.560 | 28.5 |
| 10-3 Solid | 10 | 0.600 | 34.0 |
| 10-4 Solid | 10 | 0.645 | 39.5 |
| 8-2 Stranded | 10 | 0.710 | 45.0 |
| 8-3 Stranded | 10 | 0.770 | 54.5 |
| 8-4 Stranded | 10 | 0.835 | 64.5 |
| 6-2 Stranded | 8 | 0.795 | 59.0 |
| 6-3 Stranded | 8 | 0.865 | 72.0 |
| 6-4 Stranded | 8 | 0.945 | 86.0 |
| 4-2 Stranded | 8 | 0.945 | 78.5 |
| 4-3 Stranded | 8 | 1.035 | 98.5 |
| 4-4 Stranded | 8 | 1.135 | 119.5 |
| 3-3 Stranded | 6 | 1.025 | 107.0 |
| 3-4 Stranded | 6 | 1.120 | 126.0 |
| 2-2 Stranded | 6 | 1.075 | 104.5 |
| 2-3 Stranded | 6 | 1.180 | 134.0 |
| 2-4 Stranded | 6 | 1.295 | 164.0 |

Category 5 Cable

| Pair Count | AWG Size | O.D. In. | Weight Lbs. Per 100 Ft. |
|------------|----------|----------|-------------------------|
| 2 | 24 | 0.16 | 1.3 |
| 3 | 24 | 0.18 | 1.7 |
| 4 | 24 | 0.20 | 2.1 |
| 6 | 24 | 0.27 | 3.5 |
| 8 | 24 | 0.30 | 4.2 |
| 25 | 24 | 0.50 | 13.0 |

Reference Data

Type NM -- Non-Metallic Sheathed Cable

| Size AWG | Number of Strands | Ground Wire Size | Approximate O.D. In. | Approximate Weight Lbs. Per 100 Ft. |
|---------------------|-------------------|------------------|-------------------------|--|
| Without Ground Wire | | | | |
| 14-2 | Solid | – | .17 x .37 | 5.3 |
| 12-2 | Solid | – | .19 x .40 | 7.0 |
| 10-2 | Solid | – | .22 x .45 | 10.1 |
| 14-3 | Solid | – | 0.295 | 8.2 |
| 12-3 | Solid | – | 0.332 | 10.9 |
| 10-3 | Solid | – | 0.396 | 15.7 |
| 8-3 | 7 | – | 0.538 | 27.8 |
| 6-3 | 7 | – | 0.611 | 42.2 |
| With Ground Wire | | | | |
| 14-2 | Solid | 14 | .17 x .37 | 6.4 |
| 12-2 | Solid | 12 | .19 x .41 | 9.0 |
| 10-2 | Solid | 10 | .22 x .49 | 13.3 |
| 8-2 | 7 | 10 | .28 x .61 | 21.5 |
| 6-2 | 7 | 10 | .32 x .73 | 31.3 |
| 14-3 | Solid | 14 | .322 | 9.3 |
| 12-3 | Solid | 12 | .363 | 12.9 |
| 10-3 | Solid | 10 | .436 | 18.7 |
| 14-4 | Solid | 14 | .450 | 11.6 |
| 12-4 | Solid | 12 | .490 | 16.1 |
| 10-4 | Solid | 10 | .550 | 23.3 |
| 8-3 | 7 | 10 | .552 | 30.5 |
| 6-3 | 7 | 10 | .611 | 45.0 |
| 4-3 | 7 | 8 | .821 | 66.4 |
| 2-3 | 7 | 8 | .946 | 93.0 |

Type THHN -- Insulated Single Conductor Building Wire

| Trade Size | Approximate O.D. In. | Approximate Weight Lbs. Per 100 Ft. |
|------------|-------------------------|--|
| 14 AWG | 0.11 | 1.7 |
| 12 AWG | 0.13 | 2.5 |
| 10 AWG | 0.16 | 4.0 |
| 8 AWG | 0.22 | 6.5 |
| 6 AWG | 0.25 | 9.7 |
| 4 AWG | 0.32 | 15.5 |
| 3 AWG | 0.35 | 19.1 |
| 2 AWG | 0.38 | 23.6 |
| 1 AWG | 0.45 | 30.4 |
| 1/0 AWG | 0.49 | 37.5 |

AC -- Armored Cable Specifications

| Trade Size | Armor O.D. In. | Approximate Weight Lbs. Per 100 Ft. |
|--------------|----------------|-------------------------------------|
| 14-2 Solid | 0.433 | 18.0 |
| 14-3 Solid | 0.453 | 20.0 |
| 14-4 Solid | 0.486 | 25.0 |
| 12-2 Solid | 0.467 | 21.0 |
| 12-3 Solid | 0.489 | 24.5 |
| 12-4 Solid | 0.520 | 29.0 |
| 10-2 Solid | 0.476 | 25.0 |
| 10-3 Solid | 0.500 | 29.5 |
| 10-4 Solid | 0.541 | 38.0 |
| 8-2 Solid | 0.570 | 34.5 |
| 8-3 Solid | 0.601 | 41.5 |
| 8-4 Solid | 0.654 | 48.0 |
| 8-2 Stranded | 0.604 | 34.5 |
| 8-3 Stranded | 0.637 | 42.0 |
| 8-4 Stranded | 0.695 | 51.5 |
| 6-2 Stranded | 0.700 | 44.5 |
| 6-3 Stranded | 0.739 | 56.0 |
| 6-4 Stranded | 0.807 | 68.5 |
| 4-2 Stranded | 0.836 | 62.0 |
| 4-3 Stranded | 0.885 | 80.0 |
| 4-4 Stranded | 0.971 | 99.5 |
| 3-3 Stranded | 0.990 | 94.0 |
| 3-4 Stranded | 1.085 | 118.0 |
| 2-2 Stranded | 0.956 | 81.5 |
| 2-3 Stranded | 1.014 | 109.5 |
| 2-4 Stranded | 1.115 | 138.0 |

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BLF-14

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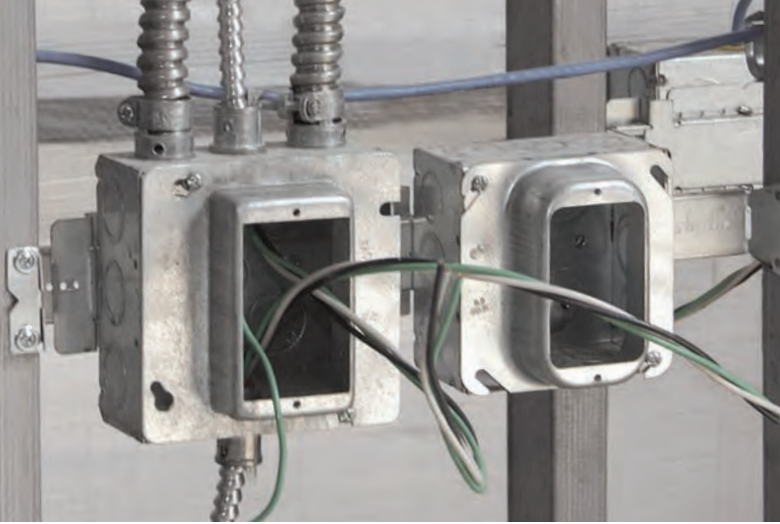
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Website: www.bline.com

Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



**B-Line's Ruff-IN product offering continues to expand with product and assembly options.
For the latest additions, visit www.cooperbline.com/ruff-in.**



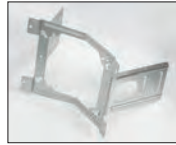
Complete Pre-Fab Offering

Choose the pre-fab offering below that best fits your needs:

Basic Ruff-IN

Offering Contents: Bracket, Box, Mud Ring, Ground Wire

- Ideal solution for a contractor sampling pre-fab for the first time that wants to keep the control of his or her project.
- Published lead times of 3-5 days ARO, and NEXT DAY SHIPPING ON (16) QUICK-SHIP ASSEMBLIES. (See pages 5 & 6)



Ruff-IN with Wiring Devices and/or MC Cable Whips

Offering Contents: Basic Ruff-IN with Wiring Device, Protective Cover Plates, and MC Cable whip with connector(s)

- Assemblies are pre-wired for quick plug and-play installation using Wago™[†] or wire nut connectors.
- Wiring Device's ArrowLink™ connector offers additional labor savings with its plug in feature. (See page 4 for more details)
- Pre-wired Ruff-IN assemblies with devices and a pre-cut MC cable whip attached.
- Whip lengths available in 5-foot increments.
- Includes option to order MC cable whips only.



Total Ruff-IN™

Perfect for a contractor that desires take-off services and B-Line engineering support

- Perfect for a contractor interested in trying pre-fab for the first time that needs the engineering and assembly expertise of B-Line.
- Industry leading, published lead times for Total Ruff-IN quotation responses and order assembly.



[†] Wago™ is a trademark used by WAGO® Kontakttechnik GmbH & Co. KG

Ruff-IN™ Pre-Fab

Distributor Quick Ship Program

Next Day Shipping Available on

12 Ruff-In Assemblies & 4 Rapid Ring™ Assemblies

- No need to request a lead time, order today and we'll ship out of stock tomorrow!
- Ask your B-Line Sales Representative for more information on stock-able Ruff-IN assemblies.

Ruff-IN Quick Ship Pre-Fab Assemblies

| Part # | UPC # | Max. Order Qty. |
|--|-------------|-----------------|
| BBF Series Floor-mount | | |
| BBF18-1104DA | 78205154072 | 50 |
| 18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire | | |
| BBF18-1104D | 78205154065 | 50 |
| 18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, solid ground wire | | |
| BBF18-1124DA | 78205155199 | 25 |
| 18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire | | |
| BBF18-1124D | 78205154176 | 25 |
| 18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, solid ground wire | | |
| Double-Sided Box Support | | |
| BB76-1104DA | 78205155200 | 100 |
| 6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, stranded ground wire | | |
| BB76-1104D | 78205138768 | 25 |
| 6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, solid ground wire | | |
| BB76-1124DA | 78205154049 | 50 |
| 6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, stranded ground wire | | |
| BB76-1124D | 78205138771 | 25 |
| 6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, solid ground wire | | |
| Telescoping Slider Bracket | | |
| BB216TS-1104DA | 78205139289 | 25 |
| 16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire | | |
| BB216TS-1104D | 78205138619 | 25 |
| 16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, solid ground wire | | |
| BB216TS-1124DA | 78205139292 | 25 |
| 16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire | | |
| BB216TS-1124D | 78205138621 | 25 |
| 16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, solid ground wire | | |



BBF18-1104DA



BB216TS-1104D



BB76-1104D

Rapid Ring™ Quick Ship Pre-Fab Assemblies

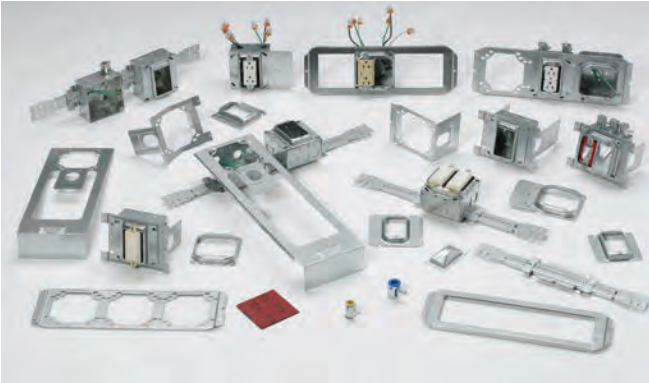
| Part # | UPC # | Max. Order Qty. |
|---|-------------|-----------------|
| BB216TS-1RR4DA 16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, stranded ground wire | 78205176294 | 50 |
| BB216TS-1RR4D 16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, solid ground wire | 78205176295 | 50 |
| BB216TS-2RR4DA 16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, stranded ground wire | 78205176296 | 50 |
| BB216TS-2RR4D 16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, solid ground wire | 78205176297 | 50 |



**Telescoping
Slider Bracket
with Rapid Ring**

Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



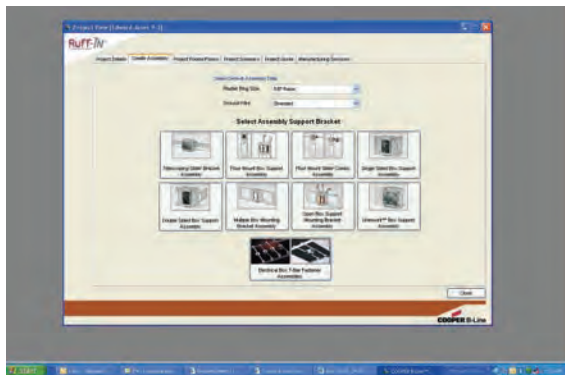
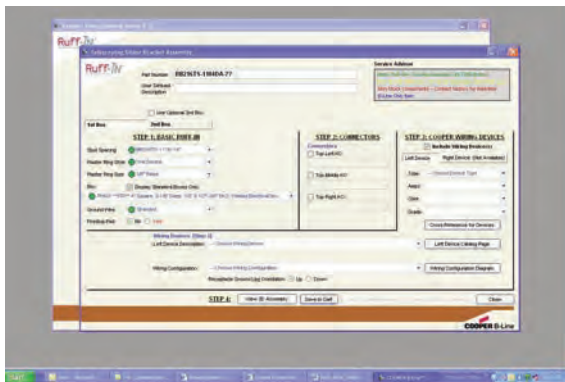
B-Line's Ruff-IN Configurator program helps simplify the planning process for pre-fab construction. The program will walk you through a component selection process, build customized pre-fab assemblies, and create a project BOM to accelerate the quotation process.

Configurator Features

- Build an assembly to your own specification by choosing from brackets, boxes, plaster rings, wiring devices, and other accessories.
- Check the assembly for accuracy by reviewing a 3D, rotatable image that is created in real time.
- Configure multiple assemblies and save them as a project.
- Divide the project into rooms and specify the types and quantities of assemblies that go in each location.
- Print a customized project submittal package with the push of a button.
- Submit the entire project with your specific job and assembly information to B-Line for a quote with one click.

All of these features translate into fewer mistakes and less time spent during the take-off process. Let the B-Line Ruff-IN Configurator go to work for you. Build your next project using B-Line's Ruff-IN pre-fabricated wiring assemblies today!

For more information, visit www.cooperbline.com/ruff-in.

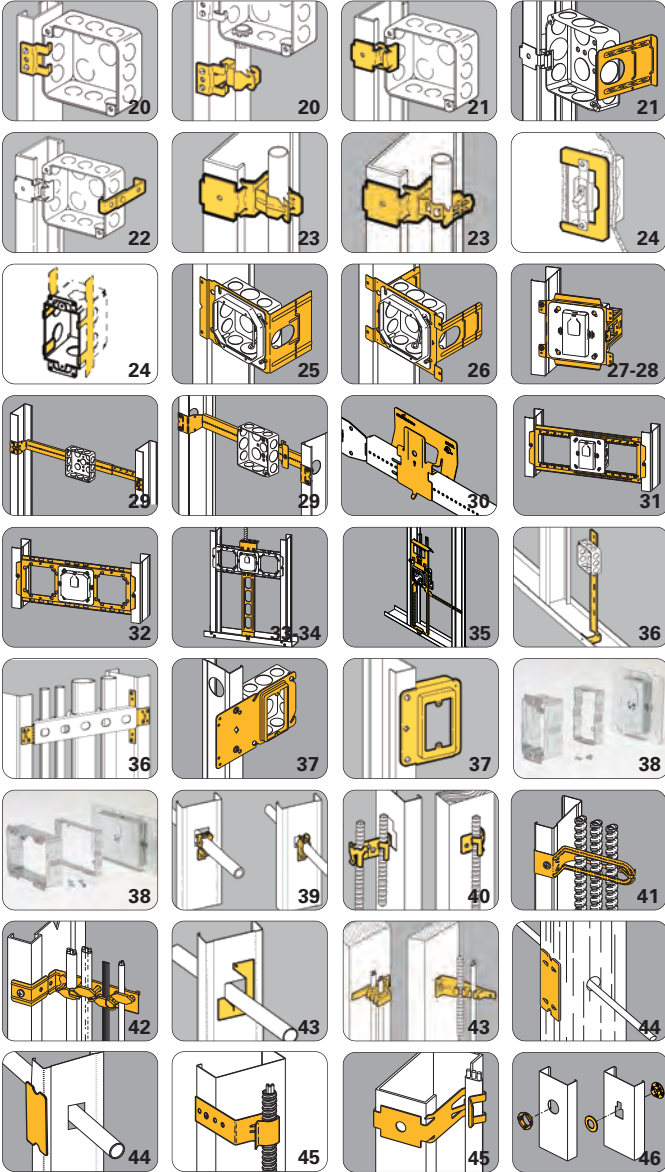


See Ruff-IN Pre-Fab Systems brochure for product information and part numbers.

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Wall Studs

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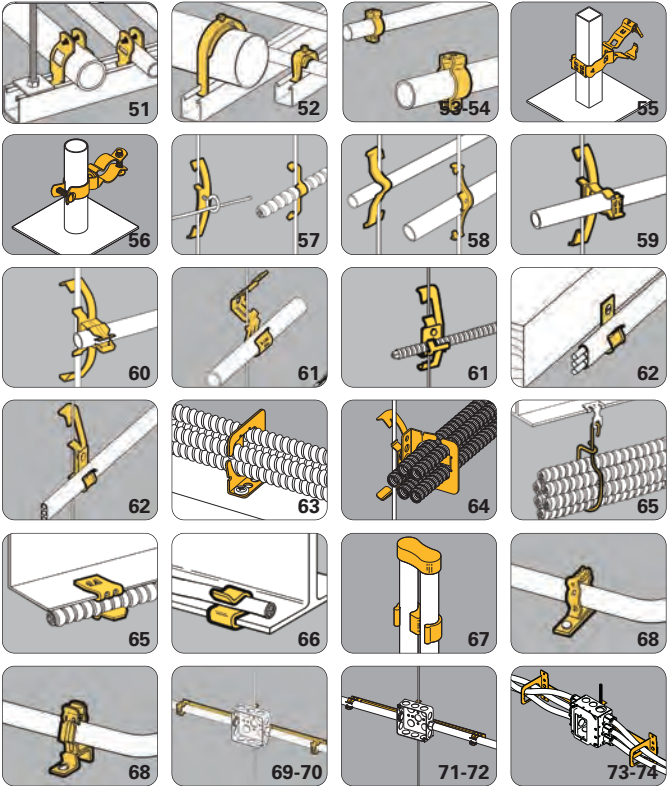


Conduit & Cable



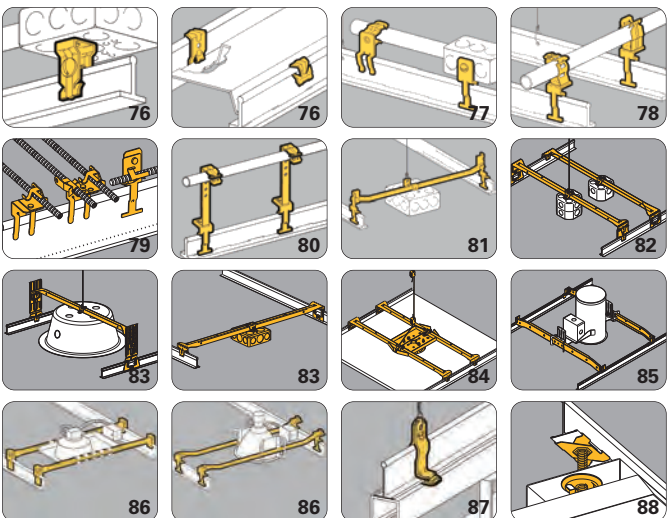
Pictorial Index

Conduit & Cable



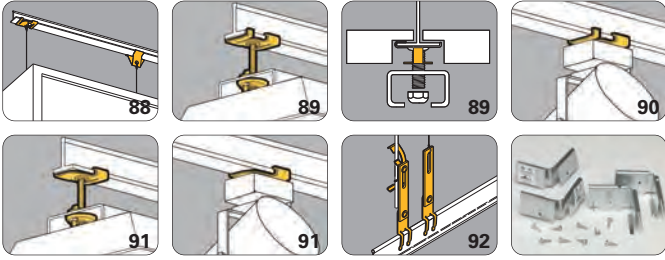
Pictorial Index

Acoustical Tee

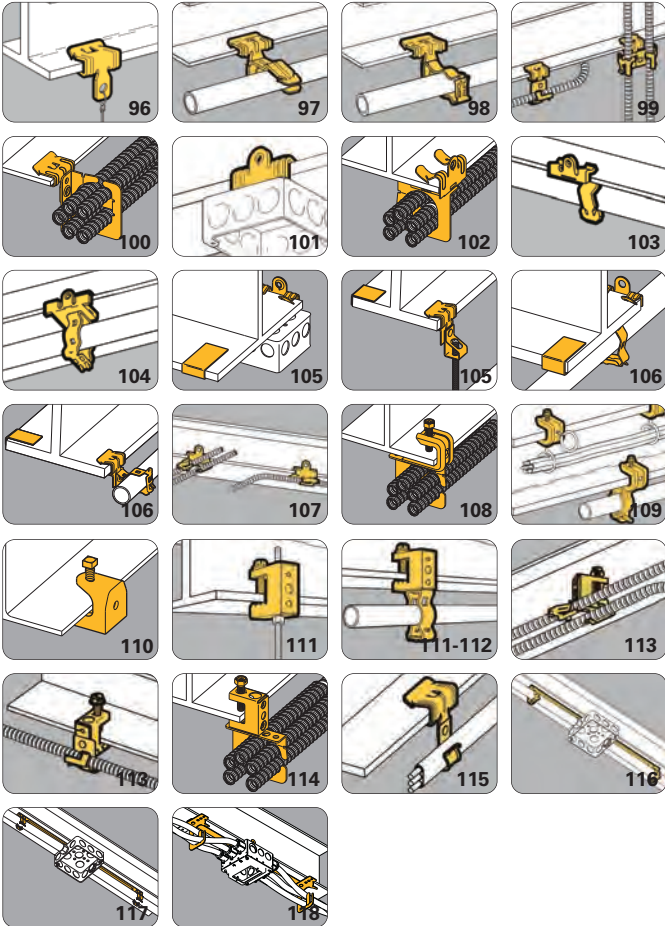


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Acoustical Tee

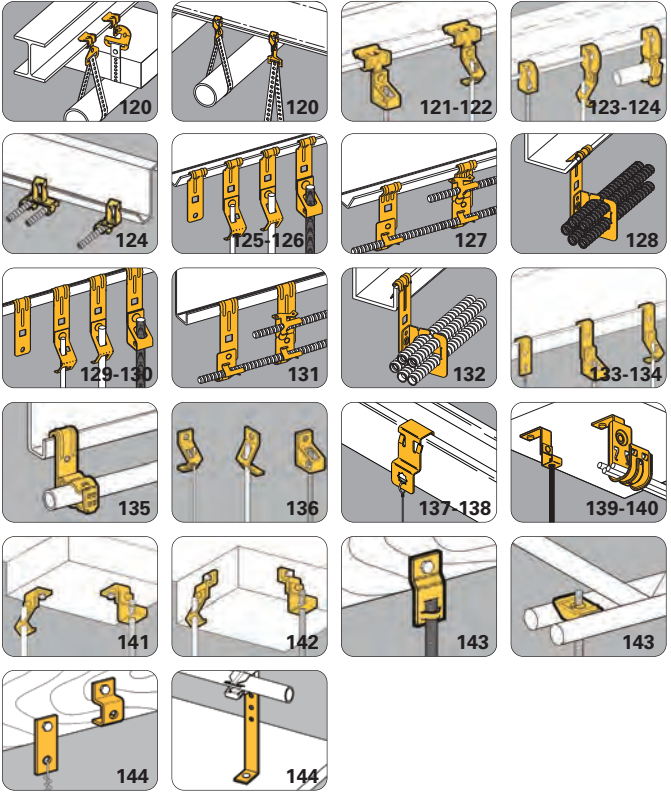


Beams



Pictorial Index

Hangers



Pictorial Index

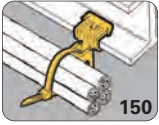
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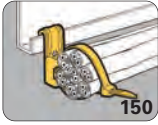
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Communication & Low Voltage

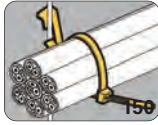
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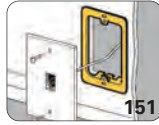
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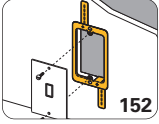
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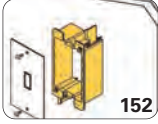
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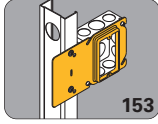
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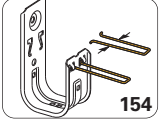
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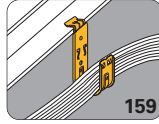
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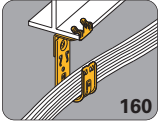
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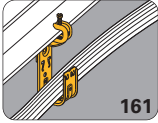
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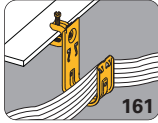
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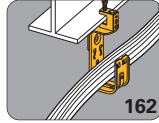
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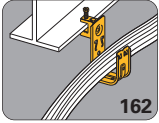
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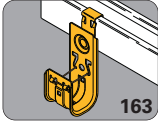
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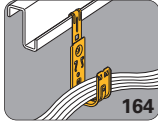
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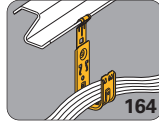
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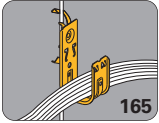
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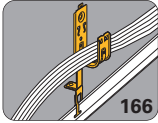
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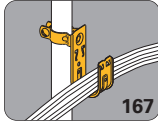
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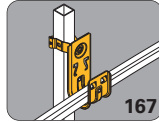
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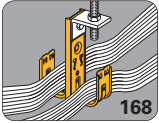
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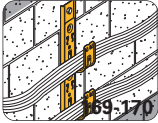
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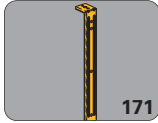
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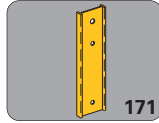
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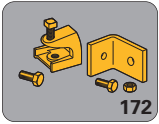
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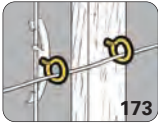
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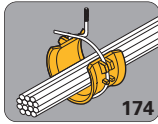
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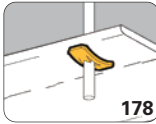


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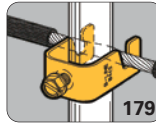
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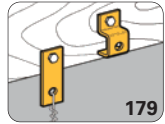
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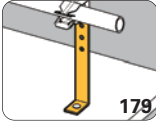
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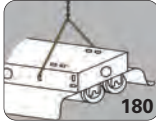
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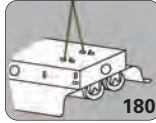
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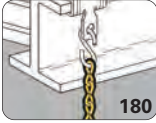
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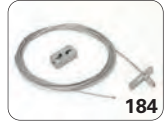
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Anchors



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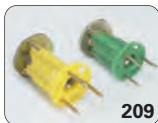
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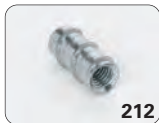
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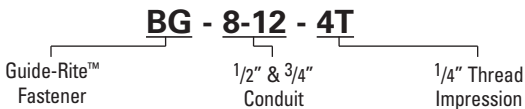
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Part Numbering Guide

This part numbering guide can be used to quickly translate our part numbers into meaningful data.

| BG - 8-12 - 4T | | |
|----------------------------------|---------------|------------------------|
| Family | Size | Suffix |
| A Series - Anchors | Based on 16th | AS - Anchor Strap |
| * B Series - Pipe Strap | of an inch | BL - Equipment Blue |
| BA - Acoustical Tee Component | 1 - 1/16" | BN - Brass Nut |
| BB - Box Attachment | 2 - 1/8" | BR - Brown |
| BC - Beam Clamp | 4 - 1/4" | BW - Bright White |
| * BCH - Cable Hook | 5 - 5/16" | CW - Computer White |
| * BCS/BES - Conduit Spacer | 6 - 3/8" | D - Deep Box |
| BD - Deck Attachment | 8 - 1/2" | FB - Flat Black |
| * BE - Edge Attachment | 9 - 9/16" | GR - Green |
| BF - Flange Attachment | 12 - 3/4" | H - Hanger |
| * BG - Guide-Rite™ Fastener | 16 - 1" | LH - Less Hardware |
| BH - Hanger Attachment | 20 - 1 1/4" | LN - Less Nut |
| BK - KwikWire | 24 - 1 1/2" | LS - Less Stud |
| BL - Conduit Hangers (mini's) | 32 - 2" | OR - Orange |
| BM - Miscellaneous | 64 - 4" | R - Right Angle |
| BN - Push Nuts | | RR - Regal Red |
| * BP - Push Type Fasteners | | S - Stud |
| * BPC - Break Apart Straps | | T - Threaded |
| * BR - Bridle Rings | | TG - Telco Gray |
| BRC - Cable Fastener | | W - White |
| * BRS - Bridle Ring Saddle | | WBN - White /Brass Nut |
| BT - Installation Tools | | WN - Wing Nut |
| * BU - Universal Beam Attachment | | YL - Safety Yellow |
| BW - Bat Wing Fastener | | 4T - 1/4" Thread Imp. |
| BX - FMC Support | | |

* The data in the size column only applies to these product families.



Materials

| Steel | Specification |
|--------------------------|----------------------|
| High Carbon Cold Rolled | ASTM A684, AISI 1055 |
| Electrolytic Zinc Coated | ASTM A591 |
| Pre-Galvanized | ASTM A653 |

Steel

B-Line spring steel fasteners are manufactured from spheroidized annealed high carbon cold rolled steel (ASTM A684, AISI 1055). Mild steel fasteners are manufactured from electrolytic zinc coated steel (ASTM A591) or pre-galvanized steel (ASTM A563).

Electrolytic zinc coated and pre-galvanized steel is produced by coating coils of sheet steel with zinc at the mills. These coils are then slit to size and fabricated into B-Line products.

Heat Treatment

B-Line spring steel fasteners are heat treated to make the steel hard and give the parts their spring quality and strength. The hardness for a given fastener depends on the required load carrying capacity and the application.

Load Data

The design load ratings for B-Line fasteners are specified in this catalog as static load capacity or ultimate static load capacity. By definition, the listed static load capacity has a safety factor of three (3.0), the listed ultimate static load capacity has no safety factor. In either case, these stated loads are not to be exceeded, and loads should be applied only as depicted in the catalog and/or instruction sheets. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Fasteners having no load ratings are designed for proper placement of boxes, conduit, etc., and not for supporting loads.

B-Line fasteners are designed for use with support members (e.g.: angle iron, bar joists, beams, columns, flanges, purlins, wire, rod) that comply with the applicable AISI standards and threaded rod that complies with the applicable AISI standards.

Quality Assurance

B-Line has an established Q.C. program in which raw material and finished products are sampled, inspected and tested by certified inspectors to assure that all applicable standards are met. B-Line's fasteners are manufactured in controlled lots and each part is identified by a lot number stamped into the part. This number allows B-Line to track each step of the manufacturing process including raw material, die set-up, heat treating, and finishing. Samples are tested to verify correct hardness, corrosion resistance and load carrying capacity.

Part Numbering Guide

| Finish | Specification |
|-------------------------|--------------------|
| Zinc-Phosphate | MIL-P-16232 Type Z |
| Electro-galvanized Zinc | ASTM B633 |
| Pre-Galvanized Zinc | ASTM A653, G90 |
| Gloss White Paint | Acrylic Enamel |

Zinc Phosphate

B-Line spring steel fasteners receive a coating* of sealant impregnated zinc phosphate. This type of coating was commercially developed by industry to inhibit oxidation of ferrous metals for up to 72 hours in a specified salt fog atmosphere. As applied to its fasteners, B-Line rates this coating for 30 hours when salt fog tested per ASTM B-117.

Although rust resistant, B-Line fasteners should be used only indoors and in non-corrosive environments.

Unless otherwise noted, the standard finish for B-Line's spring steel fasteners is Zinc Phosphate.

*At least 1000 milligrams of zinc phosphate per square foot.

Paint

Some standard fasteners have a gloss white acrylic enamel applied over the zinc phosphate finish for an enhanced appearance that compliments white ceiling grids.

Electro-galvanized Zinc

Electro-galvanized zinc (also known as zinc plated or electroplated) is the process by which a coating of zinc is deposited on the steel by electrolysis from a bath of zinc salts.

The coating is pure zinc and is mechanically bonded to the steel. A maximum of .5 mils of zinc can be applied by this method.

When exposed to air and moisture, zinc forms a tough, adherent, protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. This film is in itself a barrier coating which slows subsequent corrosive attack of the zinc.

This coating is usually recommended for indoor use in relatively dry areas.

Pre-Galvanized Zinc

Pre-galvanized steel is produced by coating coils of sheet steel with zinc by continuously rolling the material through molten zinc at the mills. This is also known as mill galvanized or hot-dip mill galvanized. These coils are then slit to size and fabricated into B-Line products.

The G90 specification calls for a coating of .90 ounces of zinc per square foot on each side of the sheet.

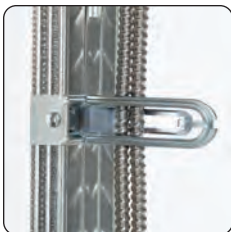
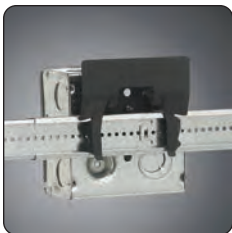
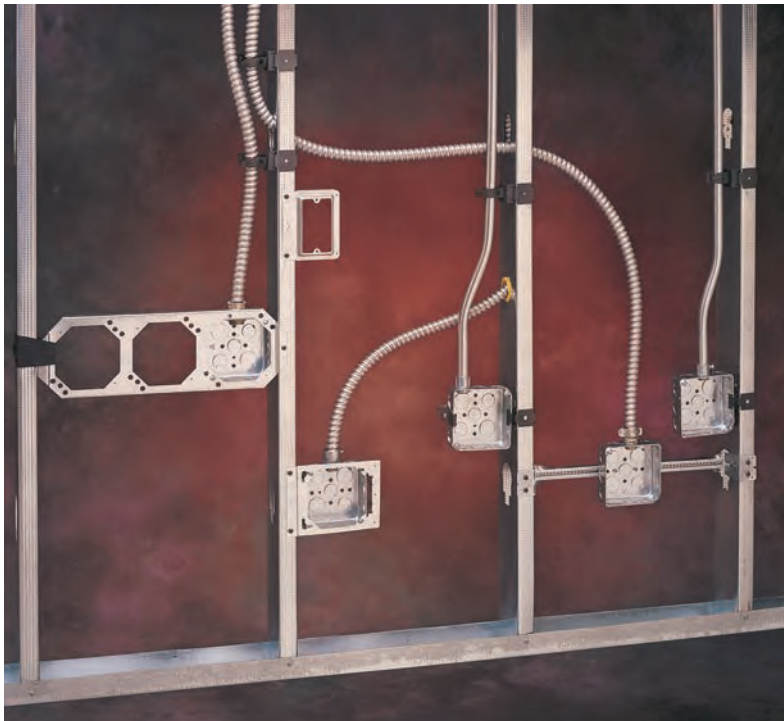
During fabrication, cut edges and welded areas are not normally zinc coated; however, the zinc near the uncoated metal becomes a sacrificial anode to protect the bare areas after a short period of time.

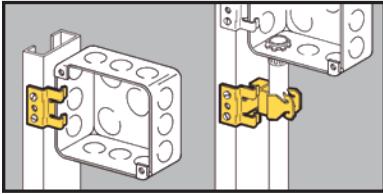
Pre-galvanized steel is recommended for indoor use in dry areas.

CAUTION: Do not use B-Line Fasteners outdoors or in corrosive environments. Proper application of each fastener is shown in this catalog and on the installation sheet inside each carton. Failure due to improper installation may cause harm to personnel and/or property. Allowable loads shown apply to the fastener only and do not account for the structure, which supports the fastener. Flanges, wires and rods used with these fasteners must meet A.I.S.I. standards. To improve personal safety on the jobsite, always observe all federal and local safety regulations: wear gloves, safety glasses and a hard hat.

Wall Studs

Wall Studs





- Attaches with screws to metal studs.
- BB1 supports electrical box.
- BG series features Guide-Rite design.
- BP series features push-type design.

Box To Stud Fastener



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------------|----------|
| 78101118145 | BB1 | Electrical Box Support Clip | 100 |

Guide-Rite™ Conduit To Stud Fastener



| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Box Qty. |
|-----------------|-------------------|--------------------------|----------|
| 78101118420 | BG-6-B1 * | 3/8" | 100 |
| 781011 18475 | BG-8-12-B1 | 1/2", 3/4" | 100 |
| 781011 18555 | BG-16-B1 | 1" | 100 |

Patent #4958792

- * BG-6 will accept the following range \varnothing .420 - \varnothing .675:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

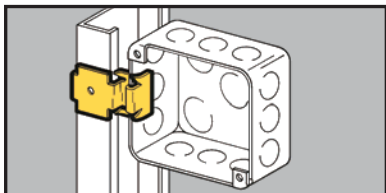
Push Type Conduit To Stud Fastener



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-----------------|------------------------------|----------|
| 781011 19245 | BP-8-B1 | 1/2" EMT | 100 |
| 781011 19345 | BP-12-B1 | 3/4" EMT, 1/2" IMC, Rigid | 100 |
| 781011 19440 | BP-16-B1 | 1" EMT, 3/4" IMC, Rigid | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Wall Studs

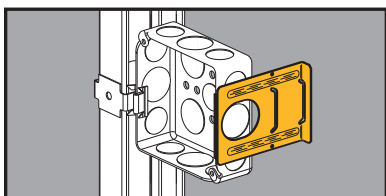


- Attaches electrical boxes (requiring plaster rings) to most metal studs.
- Box mounts flush to back of drywall.
- Simply installed with a hammer.

Box To Stud Fastener



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101118270 | BB9 | Electrical Box Support | 100 |



- Provides far-side support for electrical boxes in 2¹/₂" thru 6" studs.
- Cut outs facilitate bending to provide precise installation with greater stability.
- Easily snaps onto box side and is secured in place by plaster ring.

Adjustable Box Stabilizers



BB12

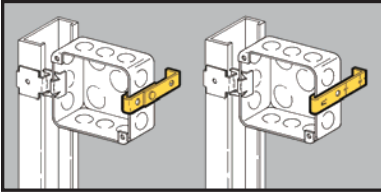


BB12-6



| UPC/Part Number | Catalog Number | Metal Stud Size | Box Qty. |
|-----------------|----------------|---|----------|
| 78101192876 | BB12 | 2 ¹ / ₂ " thru 4" | 100 |
| 78101192879 | BB12-6 | 6" | 100 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*



- Provides far-side support for electrical boxes.
- See BB12 Series for a better solution.

Box Stabilizer



BF1-96



BF1-64



BF1-56



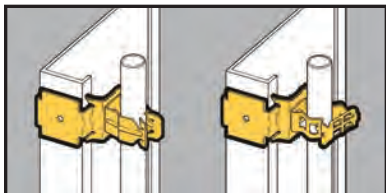
BF1-40



| UPC/Part Number | Catalog Number | Metal Stud Size | Box Qty. |
|-----------------|----------------|---------------------------------|----------|
| 78101118320 | BF1-40 | 2 ¹ / ₂ " | 100 |
| 78101118325 | BF1-56 | 3 ¹ / ₂ " | 100 |
| 78101118330 | BF1-64 | 4" | 100 |
| 78101118335 | BF1-96 | 6" | 100 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



- Attaches conduit to most metal studs.
- BG Series features Guide-Rite design.
- BP Series feature push-type design.

Guide-Rite™ Conduit To Stud Fastener



| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Box Qty. |
|-----------------|-------------------|--------------------------|----------|
| 78101118425 | BG-6-B5 * | 3/8" or BX | 100 |
| 78101118480 | BG-8-12-B5 | 1/2", 3/4" | 100 |
| 78101118560 | BG-16-B5 | 1" | 100 |
| 78101118645 | BG-20-B5 | 1 1/4" | 50 |

Patent #4958792

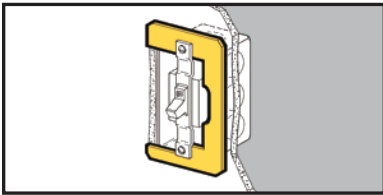
* BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

Push Type Conduit To Stud Fastener



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-----------------|------------------------------|----------|
| 78101119250 | BP-8-B5 | 1/2" EMT | 100 |
| 78101119350 | BP-12-B5 | 3/4" EMT, 1/2" IMC, Rigid | 100 |
| 78101119445 | BP-16-B5 | 1" EMT, 3/4" IMC, Rigid | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

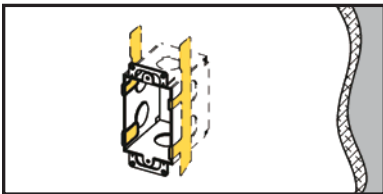


Retainer Leveler

- BB32 adds rigidity to devices in oversize wall openings.
- Holds wiring device firmly in drywall.
- Can be used with switches, receptacles, GFCIs and decorator devices.
- Ideal for positioning devices in pre-fab installations.
- Finish: Pre-Galvanized

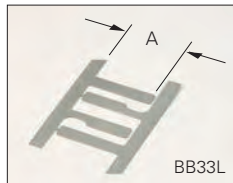
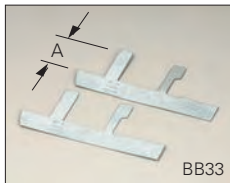


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101118215 | BB32 | Adds Rigidity to Oversize Wall Openings | 100 |



Box Support

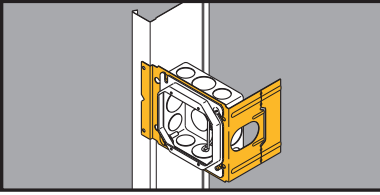
- Attaches electrical boxes to finished drywall.
- Box is completely supported by drywall.
- Prevents box from pulling out of wall.
- Finish: Pre-Galvanized



| UPC/Part Number | Catalog Number | Description | Length A | Box Qty. |
|-----------------|----------------|----------------------|---------------------------------|----------|
| 78101101138 | BB33 | Box Support | 1 ¹ / ₂ " | 100 pr. |
| 78101104936 | BB33L | Long Leg Box Support | 2 ¹ / ₂ " | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

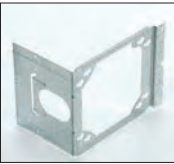
Wall Studs



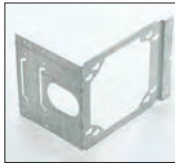
Box Support Brackets



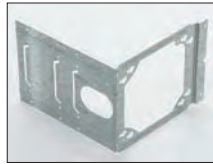
- Improved far-side support stands up during drywall installation and out performs competitor brackets.
- Supports 4" or 4¹¹/₁₆", square boxes.
- Brackets may be piggy-backed in series.
- Finish: Pre Galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.



BB4-23



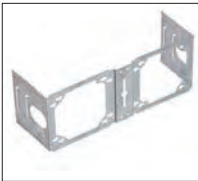
BB4-4



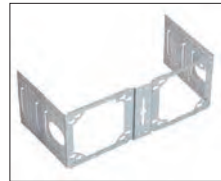
BB4-6



BB4-23D



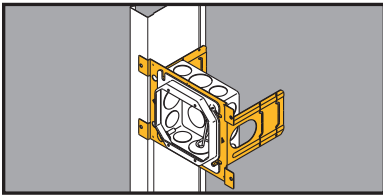
BB4-4D



BB4-6D

| UPC/Part Number | Catalog Number | Metal Stud Size | Box Qty. |
|-----------------|----------------|---|----------|
| 78101118190 | BB4-23 | 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 100 |
| 78101118200 | BB4-4 | 4", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 100 |
| 78101118202 | BB4-6 | 6", 5 ¹ / ₂ ", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 100 |
| 79903848375 | BB4-23D | 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |
| 79903848376 | BB4-4D | 4", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |
| 79903848377 | BB4-6D | 6", 5 ¹ / ₂ ", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



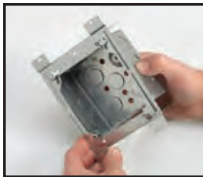
Double-Sided Box Support Bracket w/ Marty-Mouse™ Ears



1. Bracket is shipped with ear tabs in the open position



2. Insert box screws into open slots



3. When plaster ring is installed, the ear tabs are bent down into the closed position



4. With the tabs closed, the box remains secured to the bracket when the plaster ring is removed



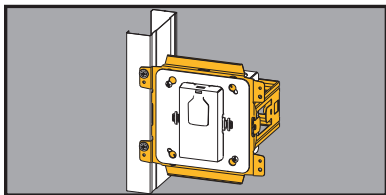
- Double-side box support, designed for Pre-Fab. Unit can be installed on either side of stud without repositioning box or devices.
- Patented Marty Mouse™ ears feature an innovative keyhole pattern to secure outlet box to bracket with or without the plaster ring.
- Wider box opening accommodates one or two gang adjustable plaster rings (B1AJ & B2AJ).
- Enhanced far-side support stands up during drywall installation and out out performs competitor brackets.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-Galvanized

| UPC/Part Number | Catalog Number | Stud Size | Box Qty. |
|-----------------|----------------|---|----------|
| 78205138645 | BB73 | 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |
| 78205138717 | BB74 | 4", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 50 |
| 78205138759 | BB76 | 6", 5 ¹ / ₂ ", 3 ⁵ / ₈ ", 2 ¹ / ₂ " | 25 |

Patent # 5595362

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Wall Studs

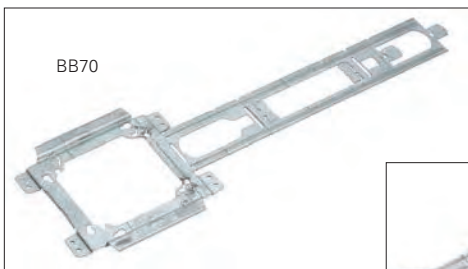


- Interlocking wrap-around design provides extra rigidity.
- Supports most standard 1-gang and 2-gang US and Canadian boxes and/or plaster rings 4" SQ., 4¹¹/₁₆" SQ., and 5" SQ. on either side of the stud.

Box Support Brackets

Available August 2014

- Adjustable for varying stud depths (2¹/₂" to 6").
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Integral mounting tabs for attaching plaster rings.
- Multiple brackets may be ganged together.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box, mud ring, and pre-wired devices.
- Finish: Pre Galvanized.
- Patent Pending



BB70

BB70E*
(Sold separately,
must be used
with BB70)



See following page for various product information.

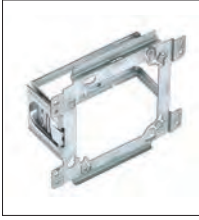
| UPC/Part Number | Catalog Number | Metal Stud Size | Box Qty. |
|-----------------|----------------|--------------------------------------|----------|
| 79903856399 | BB70 | 2 ¹ / ₂ " - 4" | 50 |
| 79903856400 | BB70E* | 5 ¹ / ₂ " - 6" | 50 |



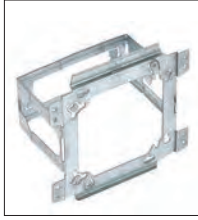
Can be used with BBCC (containment clip) and BBFS-18 (floor stand) See pages 33 & 34.

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

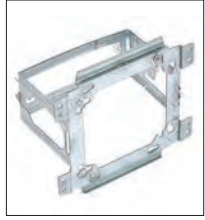
Bent For Various Depths



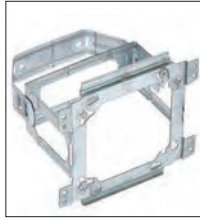
2 1/2"



3 5/8"



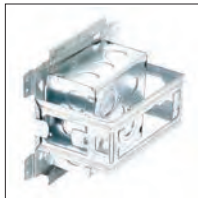
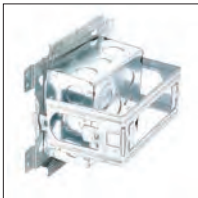
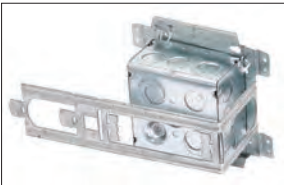
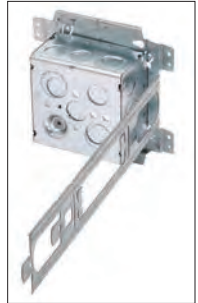
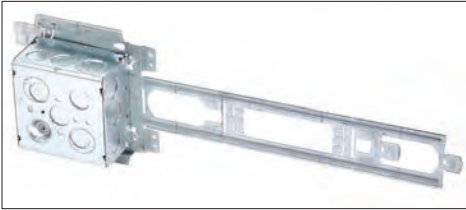
4"



6"

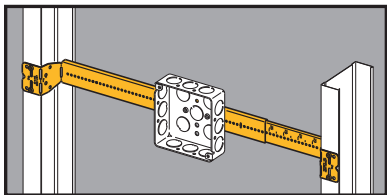
For 5 1/2" depth, snap the BB70E into the next notch on the bracket side

Bending Bracket For 3 5/8" Depth



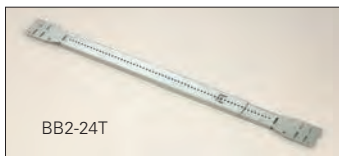
*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



- Completely adjustable - fits a range of stud spacings and 1 1/2" or 2 1/8" deep boxes.
- Pre-punched screw holes provide for easy box installation.
- Bar is marked with scale for stud spacing.
- Finish: Pre-galvanized

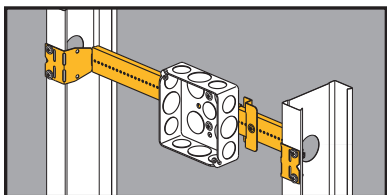
Telescoping Box Mounting Bracket



BB2-24T

| UPC/Part Number | Catalog Number | Metal Stud Spacing | Box Qty. |
|-----------------|----------------|--------------------|----------|
| 78101104256 | BB2-16T | 11" to 18" | 50 |
| 78101101664 | BB2-24T | 15" to 26" | 50 |

Licensed under Patent #5386959 • Patent #5209444

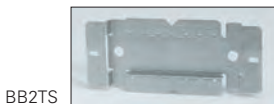


- Designed for pre-fab.
- Box can be attached to slider bracket before or after slider is installed on telescoping bracket.
- Box location can be field adjusted by moving slider along telescoping bracket.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

Telescoping Slider Bracket



BB216TS

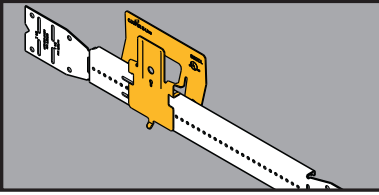


BB2TS

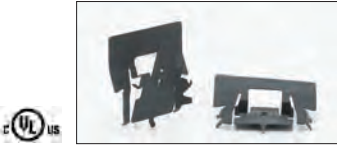
| UPC/Part Number | Catalog Number | Stud Spacing | Box Qty. |
|-----------------|----------------|---------------------|----------|
| 78205138614 | BB216TS | 11" to 18" | 20 |
| 78205138628 | BB224TS | 15" to 26" | 20 |
| 78205138613 | BB2TS | Slider Bracket Only | 50 |

Patent # 7,472,875

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



CROC-LOK™ Box Mounting Bracket



- Designed for pre-fab.
- Outlet boxes mount to the CROC-LOK with single screw.
- CROC-LOK box assemblies can be attached before or after the telescoping bar is mounted in the stud wall.
- The tool-less design enables CROC-LOK assemblies to be field installed in less than 4 seconds. Simply squeeze, secure and walk away.
- See Ruff-IN™ brochure for pre-fab box assemblies.

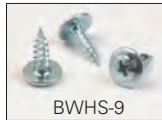
| UPC/Part Number | Catalog Number | Description | Stud Spacing | Box Qty. |
|-----------------|-----------------|----------------------|--------------|----------|
| 78205151291 | BB2CL | CROC-LOK only | N/A | 50 |
| 78205151292 | BB216TCL | BB216T with CROC-LOK | 11" - 16" | 20 |
| 78205151293 | BB224TCL | BB224T with CROC-LOK | 15" - 24" | 20 |

Note:

U.S. Patent # 8,403,277

Secures to B-Line BB2-16T and BB2-24T telescoping brackets only. For a standard 2¹/₈" deep box, the stud depth must be 3¹/₂" or greater. For a shallow 1¹/₂" deep box, the stud depth must be 2¹/₂" or greater.

Mounting Screws

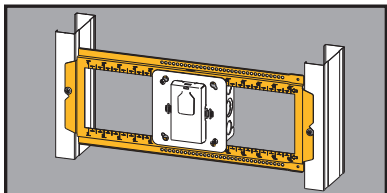


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--|----------|
| 78101101675 | BWHS-9 | #8 x 9/16" Sheet Metal Screw | 1000 |
| 78101104925 | BWHS-9D | #8 x 9/16" Self-Drilling Sheet Metal Screw | 1000 |

Note: BWHS-9 & BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws, except on BB2-16, BB2-16D, BB2-24 & BB2-24D which only BWHS-9 can be used.

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



Open Box Mounting Bracket

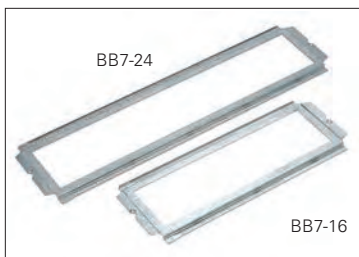
Available August 2014



- Open box support allows for adjustability of box position between studs.
- Supports most US and Canadian boxes and/or plaster rings 4" SQ., 4¹¹/₁₆" SQ., 5" SQ., and multi-gang boxes.

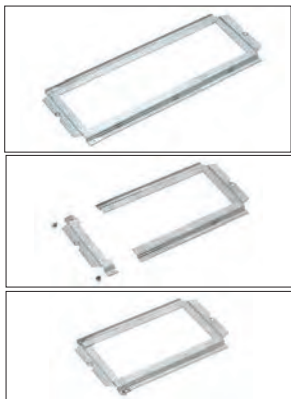
- Fits up to 1¹/₂" wide studs 16" to 24" on center.
- Compatible with Rapid Ring™ & adjustable plaster rings.
- Field cut to adjust to non-standard stud spacings.
- Stamped markings at 1/4", 1/2", and 1" increments to allow the installer to easily locate the desired box position.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending

Wall Studs



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78205145325 | BB7-16 | 16" Stud Spacing | 25 |
| 78205145328 | BB7-24 | 24" Stud Spacing | 25 |

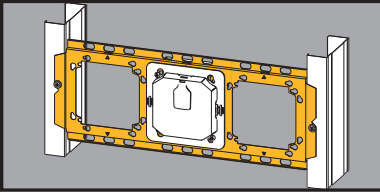
Can be cut on a mark to make shorter length brackets.



Can be used with BBFS-18 (floor stand)
See pages 33 & 34.



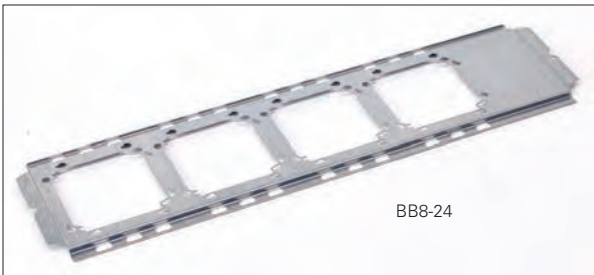
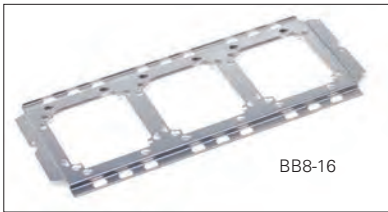
Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Box Mounting Bracket



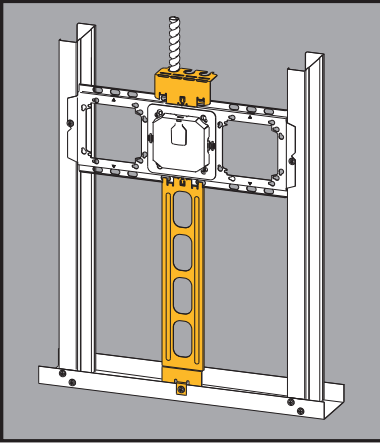
- Increased strength and rigidity help withstand the stress of drywall installation.
- Supports most US & Canadian boxes and plaster rings 4" SQ. and 4^{11/16}" SQ.
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------|----------|
| 78101102898 | BB8-16 | 16" Stud Spacing | 25 |
| 78101102900 | BB8-24 | 24" Stud Spacing | 25 |

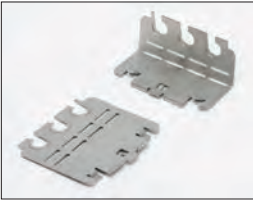
*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs

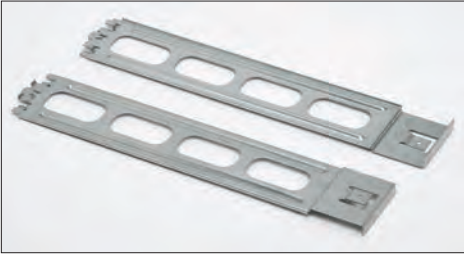


- Bracket accessories require no tools to install.
- BBCC cable containment clip provides first means of support for MC cable.
- BBFS-18 floor stand ensures consistent box height and eliminates need to measure for proper install height.
- Can be used with BB7 and BB8 brackets. See pages 27, 31, and 32.
- Pre-galvanized finish.

Box Mounting Bracket Accessories



BBCC



BBFS-18

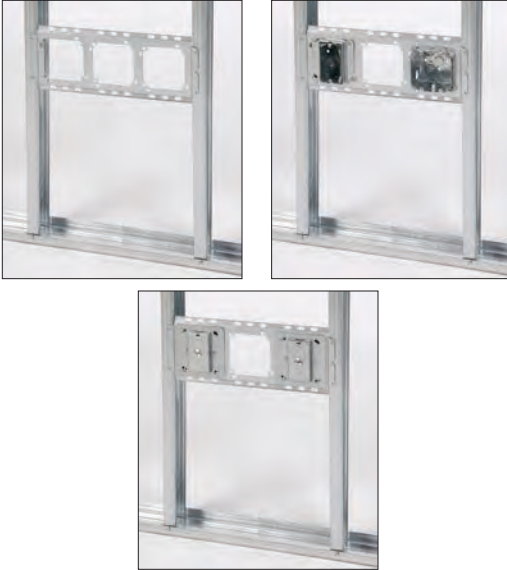
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 79903851597 | BBFS-18 | Floor Stand | 25 |
| 79903851598 | BBCC | .439" - .750" OD MC Cable | 50 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

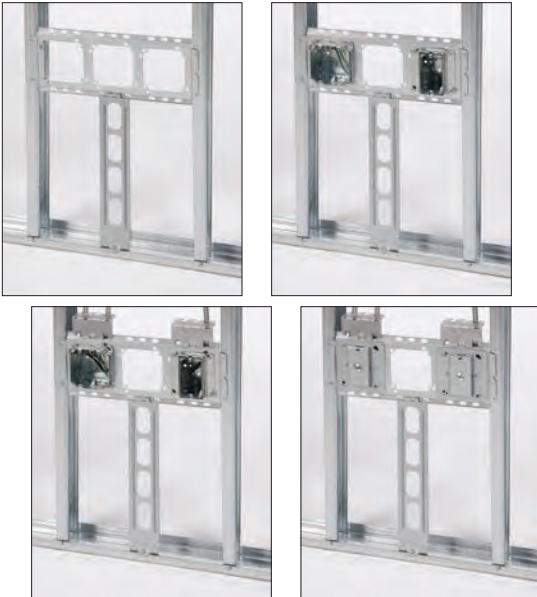
Box Mounting Bracket Accessories con't.



BB8-16 Installed

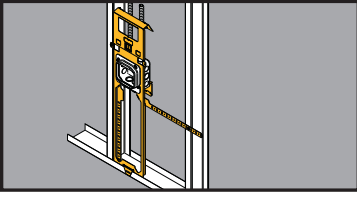


BBFS-18 & BBCC Installed (Can be used with BB7 or BB8 brackets)



*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



Floor-Mount Box Support



BBF15



BBFC



BBF18



BBF24



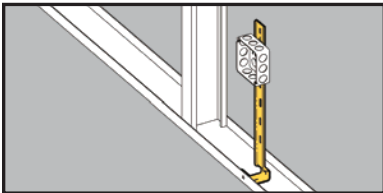
BBFxxC

- New BBF floorstand provides the most rigid support in the industry.
- Far-side support accommodates 6", 5 1/2", 3 5/8", and 2 1/2" stud depths.
- Fold-out tab built-in to attach floor stand to stud if desired.
- Integral "wings" provide rigid support when floorstand is mounted between studs.
- Optional cable containment clip securely attaches to floorstand without hardware.
- Patented Marty Mouse™ ears enable boxes to be secured in place with or without the plaster rings.
- Finish: Pre-galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.

| UPC/Part Number | Catalog Number | Box Center Height | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78205152944 | BBF15 | 15" Floorstand | 25 |
| 78205152945 | BBF18 | 18" Floorstand | 25 |
| 78205152946 | BBF24 | 24" Floorstand | 25 |
| 78205152947 | BBFC | 18" Floorstand | 25 |
| 78205152948 | BBF15C | 15" Floorstand with Cable Clip | 25 |
| 78205152949 | BBF18C | 18" Floorstand with Cable Clip | 25 |
| 78205152950 | BBF24C | 24" Floorstand with Cable Clip | 25 |

Patent #5595362
Patent #7956285 B2

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

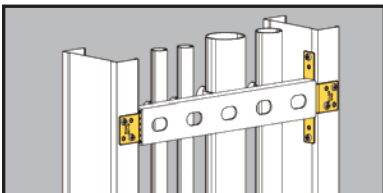


Floor Mounted Box Support



- See **BBF Series** for a better solution.
- Provides support for electrical box from floor track or concrete forms.
- 18" length with break-away feature for 12" or 16" box mounting.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101103623 | BB-18 | Floor Mounted Box Support | 50 |



Strut Mounting Brackets

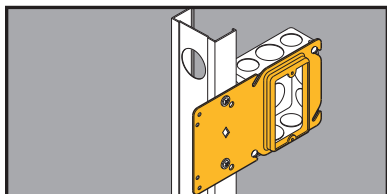


- Attaches 13/16" strut, 1 1/2" lathers channel, 1/2" EMT or 3/4" EMT to metal studs.
- Provides support for vertical runs of conduit.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101101658 | BMB1 | Strut Mounting Bracket | 25 pr. |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Wall Studs



- Uni-Mount provides a secure support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Enlarged viewing hole makes it easier to find mark lines on the stud.
- Gangable design accepts BB423 bracket to mount boxes on both sides of the stud.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

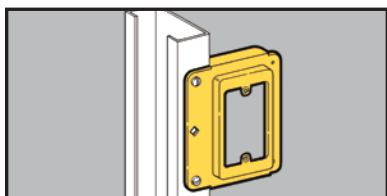
Uni-Mount™ Box Support/Cover Plate Mounting Bracket

Single Gang
BB40 Series



Double Gang
BB45 Series

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205122768 | BB40-08 | 1/2" Raise | 50 |
| 78205122771 | BB40-10 | 5/8" Raise | 50 |
| 78205122772 | BB40-12 | 3/4" Raise | 50 |
| 78205122773 | BB45-08 | 1/2" Raise | 50 |
| 78205122774 | BB45-10 | 5/8" Raise | 50 |
| 78205122775 | BB45-12 | 3/4" Raise | 50 |



Cover Plate Mounting Bracket



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Can be piggy-backed.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------|----------|
| 78101119873 | BB15 | Single Gang Stud Bracket | 50 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

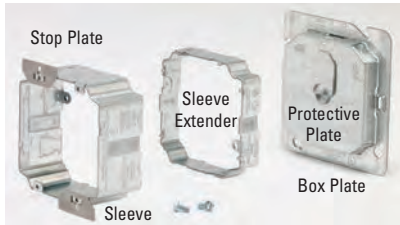
Rapid Ring™ Self Adjusting Pre-Fab Ring

The Rapid Ring self-adjusting pre-fab plaster ring can help you win tight bids and beat the profit squeeze with its innovative 4-step installation. This revolutionary new pre-fab system installs in as little as 15 seconds per unit, compressing your project schedule, cutting operational costs and reducing onsite waste.

Because the Rapid Ring is a self-adjusting pre-fab ring, you'll never need to adjust a mud ring again. With a simple push of the Rapid Ring you're flush every time.



1. Remove protective plate.
2. Connect the wiring device.
3. Position the device assembly.
4. Push in the device assembly—and you're done!



| For Use With Wiring Device Qty. | Electrical Box ⁵ | Box Plate ¹ Cat. No. | Sleeve ^{2,3} Cat. No. | Sleeve Extender ⁴ Cat. No. |
|------------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---|
| 1 | 4" sq. | B1RRP4C | B1RRR | B1RRE |
| 1 | 4 ¹¹ / ₁₆ " sq. | B1RRP5C | B1RRR | B1RRE |
| 2 | 4" sq. | B2RRP4C | B2RRR | B2RRE |
| 2 | 4 ¹¹ / ₁₆ " sq. | B2RRP5C | B2RRR | B2RRE |
| 3 | 3-gang ⁶ | B3RRPC | B3RRR | B3RRE |
| 4 | 4-gang ⁷ | B4RRPC | B4RRR | B4RRE |

1. Protective plate included with box plate.
2. Wall thickness range: 1/2" min. to 1 1/4" max.
3. Stop plates included with sleeve.
4. Sleeve extender is an optional accessory to extend max. wall thickness range to 2" (order separately, mounting hardware included)
5. Minimum electrical box depth is 2 1/8"
6. Keyhole knockouts allow use on 2-gang electrical box.
7. Keyhole knockouts allow use on 3-gang electrical box.

Go to www.cooperbline.com/rapidring

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



- Supports horizontal runs of conduit, flexible conduit, MC or AC cable through metal studs.
- Attaches easily with a single sheet metal screw.
- Prevents conduit/cable rattling.

Conduit/Cable Supports



BG-x-H7



BP-x-H7
(Not UL)



BX4-H7



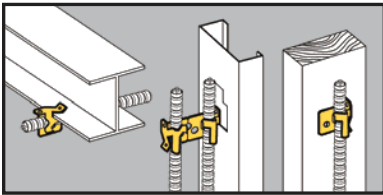
BX4M-H7
(Not UL)



| UPC/Part Number | Catalog Number | Conduit/Cable Size | Box Qty. |
|-----------------|-------------------|-----------------------------|----------|
| 78101101228 | BG-6-H7 * | 3/8", MC, AC, or FMC | 100 |
| 78101110238 | BG-8-12-H7 | 1/2" or 3/4" | 100 |
| Patent #4958792 | | | |
| 78101101227 | BP-8-H7 | 1/2" EMT | 100 |
| 78101101226 | BP-12-H7 | 3/4" EMT 1/2" IMC, Rigid | 100 |
| 78101101200 | BX4-H7 | MC, AC, or FMC | 100 |
| 78101101205 | BX4M-H7 | MC, AC, or FMC | 100 |

* BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and $5/16$ or $3/8$ flexible conduit

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to studs or flanges up to 3/16" thick.
- Snaps into place on metal stud openings or may be screwed to metal or wood studs.
- BX4M may be snapped in half to make two BX4's.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

Flexible Conduit/ Cable Fasteners



BX4M

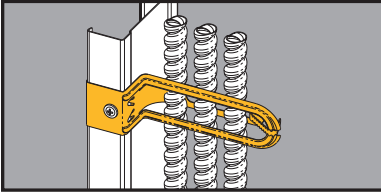


BX4MD

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------|----------|
| 78101101079 | BX4 | Single Runs | 100 |
| 78101101080 | BX4M | Double Runs | 100 |
| 78101101224 | BX4MD | Up to 4 Runs | 100 |

*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs



Cable Support



- Metal cable support can be used in plenum-rated areas.
- Longer locking tabs.
- Shipped pre-assembled.
- Hinge can be opened for greater cable capacity.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

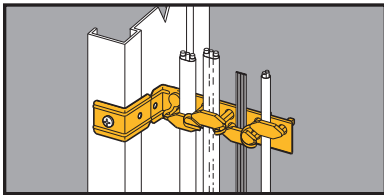
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|----------------|----------|
| 79903843761 | BRC6M | Up to 3/4" FMC | 100 |

Note: Canadian applications are limited to wood studs only.

| Cable Size | Cable Type | | | | | |
|--------------|-------------------|------|-------------------------|------|--------------------|------|
| | Non-Metallic (NM) | | Metal Clad (MC) | | Armored Cable (AC) | |
| | Qty. | Dia. | Qty. | Dia. | Qty. | Dia. |
| 14-2 w/ Grnd | 8 | .360 | 5 | .439 | 5 | .464 |
| 14-3 w/ Grnd | 8 | .307 | 5 | .464 | 5 | .483 |
| 14-4 w/ Grnd | 8 | .336 | 4 | .494 | 4 | .517 |
| 12-2 w/ Grnd | 7 | .410 | 5 | .475 | 4 | .498 |
| 12-3 w/ Grnd | 8 | .347 | 4 | .505 | 4 | .521 |
| 12-4 w/ Grnd | 7 | .381 | 4 | .539 | 4 | .557 |
| 10-2 w/ Grnd | 6 | .494 | 4 | .542 | 4 | .560 |
| 10-3 w/ Grnd | 7 | .422 | 4 | .580 | 4 | .588 |
| 10-4 w/ Grnd | NA | NA | 3 | .623 | 3 | .632 |
| 8-2 w/ Grnd | 4 | .612 | NA | NA | NA | NA |
| 8-3 w/ Grnd | 4 | .565 | NA | NA | NA | NA |
| 6-2 w/ Grnd | 4 | .650 | NA | NA | NA | NA |
| 5/16 FMC | | | 5 (.470 to .510 Dia.) | | | |
| 3/8 FMC | | | 4 (.560 to .610 Dia.) | | | |
| 1/2 FMC | | | 1 (.860 to .920 Dia.) | | | |
| 3/4 FMC | | | 1 (1.045 to 1.105 Dia.) | | | |

The quantity of cables shown in the chart is the maximum. Fewer cables can be supported. Diameters are based on data from a leading cable manufacturer (may vary slightly). Diameters of some NM cables refer to the widest dimension of a flat cable. NA = Not applicable

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



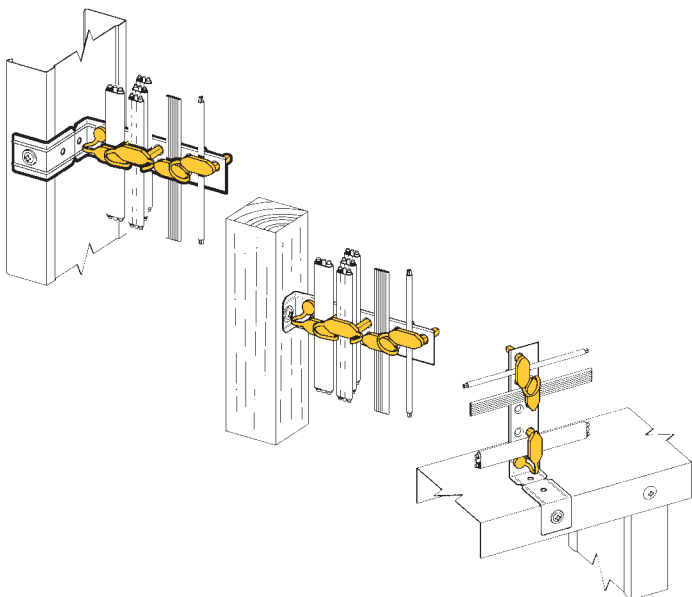
Staple-Lok™ Multi-Purpose Cable Support



- Individual plastic staples grip cable and reduce slipping.
- Secures up through #10 type NM cable.
- Supports AC, MC or FMC cable up to 1/2" O.D.
- Break-apart feature allows installation on studs and furring strips.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

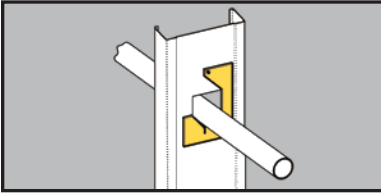
| UPC/Part Number | Catalog Number | Cable Size | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101103587 | BRC4 | Up to .500" O.D. | 100 |

Patent #5587555



*Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.*

Wall Studs

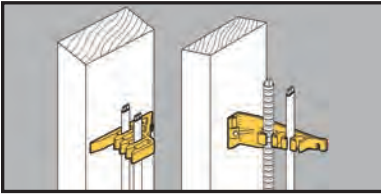


- Allows conduit, MC, AC, or FMC to be pulled through metal studs.
- Provides support for horizontal runs of conduit or cable through metal stud.
- Prevents rattling of conduit/cable.
- Finish: Pre-galvanized

Conduit/Cable Supports



| UPC/Part Number | Catalog Number | Conduit/Cable Size | Box Qty. |
|-----------------|----------------|--------------------|----------|
| 78101101657 | BX82 | Up to 1" | 100 |



- Attaches Type NM cables to wood studs.
- Can be used to support computer, CATV, telephone, security and instrumentation cables.
- Provided with nail inserted.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

Cable Fasteners



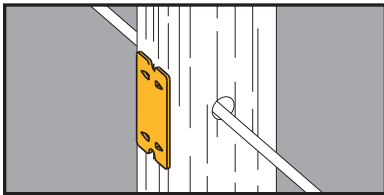
BRC1



BRC2

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101102941 | BRC1 | Wood Stud Cable Fastener | 50 |
| 78101102941 | BRC2 | Furring Strip Cable Fastener | 50 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

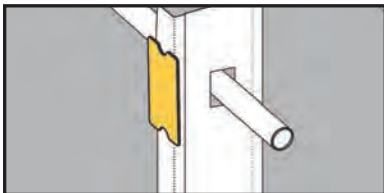


- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Easily installed with a hammer.
- Complies with NEC Article 300-4.

Nail Plates For Wood Studs



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104927 | BM3 | Nail Plate | 100 |



- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Comes with industrial grade double stick tape on back for easy installation on stud.
- Complies with NEC Article 300-4.

Nail Plates For Metal Studs

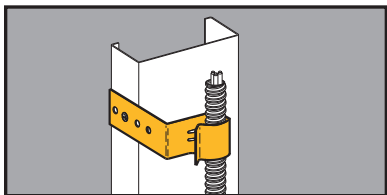


Just Peel Tape and Stick To Stud

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101126251 | BM3M | Nail Plate | 100 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Wall Studs



Conduit Support



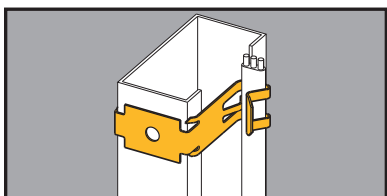
BB38



BB38D

- Larger capacity: Redesigned BB38D attaches 1/2" to 1" EMT or flexible conduit to metal or wood studs.
- BB38 attaches MC/AC cable, 1/2" & 3/4" EMT to metal or wood studs.
- Eliminates the need for offset bending of conduit.
- Aligns conduit with standard box knockouts.

| UPC/Part Number | Catalog Number | Box Depth | Box Qty. |
|-----------------|----------------|-----------|----------|
| 78101104265 | BB38 | 1 1/2" | 100 |
| 78101195244 | BB38D | 2 1/8" | 100 |



Flexible Conduit/ Cable Fasteners

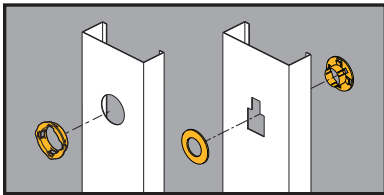


- Secures Romex^{®†} sizes 14/2 w/ground thru 12/3 w/ground, MC/AC sizes 14/2 thru 12/3 to metal or wood studs.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--|----------|
| 78101119755 | BX5 | Secures Flexible Conduit or Cable to Metal or Wood Studs | 100 |

†Romex[®] is a registered trademark used by Southwire[®] Company, Carrollton, Georgia.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Metal Stud Grommet



- BM1 snaps into standard 1¹¹/₃₂" diameter holes in metal studs from 25 Ga. to 16 Ga.
- Redesigned BM2 is shipped as one piece and easily separated for installation.
- Universal BM2 provides 360° protection. Fits all factory punched metal stud holes.
- Protects wire insulation in accordance with NEC Article 300.4(B) (1).



BM1



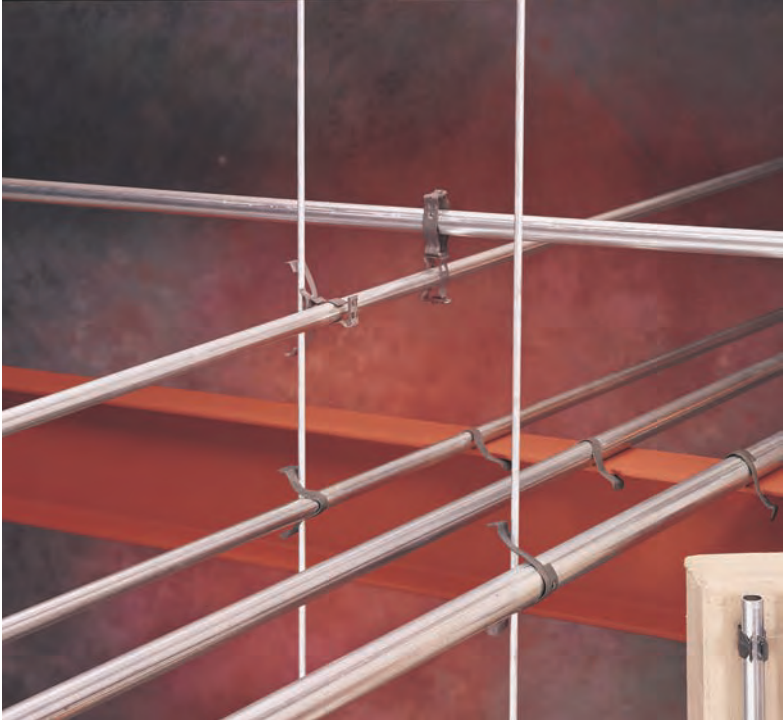
BM2

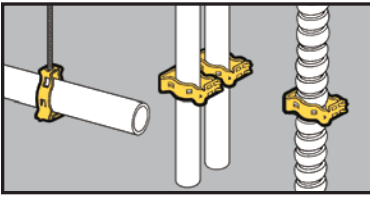
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------------|----------|
| 78101119100 | BM1 | Plastic Grommet | 100 |
| 78101119102 | BM1M | Plastic Grommet (Bulk Quantity) | 100 |
| 78101104926 | BM2 | Universal Plastic Grommet | 100 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Conduit & Cable

Conduit & Cable



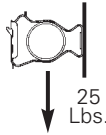


- Supports 3/8" to 2" conduit.
- Unique Guide-Rite Fastener provides for fast and easy installation with pliers.
- Now available in DURA-COPPER™ finish - add DCU to part number.
- Static Load Capacity:
100 Lbs. - Vertical
25 Lbs. - Horizontal

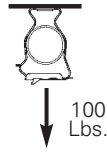
Guide-Rite™ Conduit Fasteners



Clearance Hole
For 1/4" Bolt



**Static
Load
Capacity**



| UPC/Part Number | Catalog Number | Conduit Size EMT/Rigid | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101118350 | BG-6* | 3/8" | 100 |
| 78101118355 | BG-8-12 | 1/2", 3/4" | 100 |
| 78101118360 | BG-16 | 1" | 100 |
| 78101118365 | BG-20 | 1 1/4" | 100 |
| 78101118360 | BG-24 | 1 1/2" | 100 |
| 78101118375 | BG-32 | 2" | 100 |



1/4"-20
Thread Impression



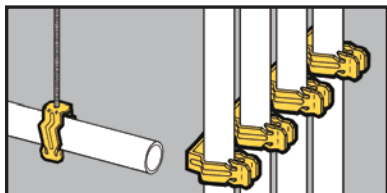
| UPC/Part Number | Catalog Number | Conduit Size EMT/Rigid | Box Qty. |
|-----------------|-------------------|------------------------|----------|
| 78101118380 | BG-6-4T* | 3/8" | 100 |
| 78101118385 | BG-8-12-4T | 1/2", 3/4" | 100 |
| 78101118390 | BG-16-4T | 1" | 100 |
| 78101118395 | BG-20-4T | 1 1/4" | 100 |
| 78101118400 | BG-24-4T | 1 1/2" | 100 |
| 78101118405 | BG-32-4T | 2" | 100 |

Patent #4958792

- * BG-6 and BG-6-4T will accept the following range $\varnothing.420 - \varnothing.675$:
1/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

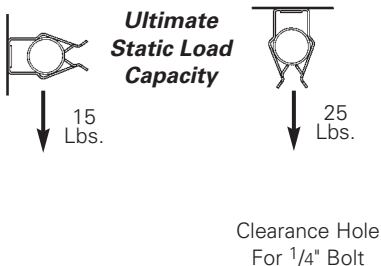
Read safety/installation instruction sheets in packages before use.

Conduit & Cable



- Conduit easily snaps into push type fastener for secure support.
- Available with clearance hole for 1/4" bolt or 1/4"-20 thread impression.
- **Ultimate Static Load Capacity:**
25 Lbs. Vertical
15 Lbs. Horizontal

Push-Type Conduit Fasteners

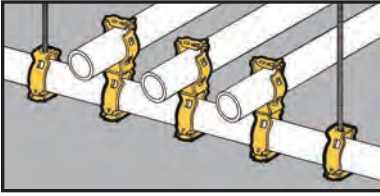


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|----------------|-----------------------------|----------|
| 78101119200 | BP-8 | 1/2" EMT | 100 |
| 78101119205 | BP-12 | 3/4" EMT 1/2" IMC, Rigid | 100 |
| 78101119210 | BP-16 | 1" EMT 3/4" IMC, Rigid | 100 |

1/4"-20
Thread Impression



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-----------------|-----------------------------|----------|
| 78101119215 | BP-8-4T | 1/2" EMT | 100 |
| 78101119220 | BP-12-4T | 3/4" EMT 1/2" IMC, Rigid | 100 |
| 78101119225 | BP-16-4T | 1" EMT 3/4" IMC, Rigid | 100 |



Guide-Rite™ Conduit Trapeze Fasteners



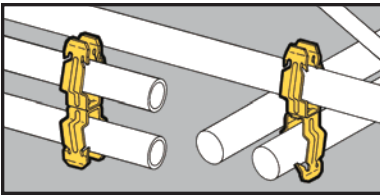
- For use with $\frac{3}{8}$ " to 2" conduit.
- Guide-Rite Fastener provides for fast and easy installation with pliers.



- Note: Total load of trapeze must not exceed 100 Lbs.

| UPC/Part Number | Catalog Number | Conduit To 1" Trapeze | Box Qty. |
|-----------------|---------------------|----------------------------------|----------|
| 78101118615 | BG-16-G-6* | $\frac{3}{8}$ " | 100 |
| 78101118620 | BG-16-G-8-12 | $\frac{1}{2}$ ", $\frac{3}{4}$ " | 100 |
| 78101118595 | BG-16-G-16 | 1" | 100 |
| 78101118600 | BG-16-G-20 | $1\frac{1}{4}$ " | 50 |
| 78101118605 | BG-16-G-24 | $1\frac{1}{2}$ " | 50 |
| 78101118610 | BG-16-G-32 | 2" | 50 |

* BG-16-G-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and $\frac{5}{16}$ or $\frac{3}{8}$ flexible conduit



Push-Type Conduit To Conduit Fasteners

- An ideal spacer between conduits.
- No installation tools required.



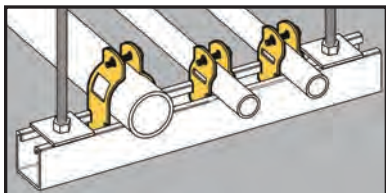
- **Ultimate Static Load Capacity:** 25 Lbs.

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-------------------|------------------------------------|----------|
| 78101118615 | BP-8-P-8 | $\frac{1}{2}$ " to $\frac{1}{2}$ " | 100 |
| 78101118620 | BP-8-P-12 | $\frac{1}{2}$ " to $\frac{3}{4}$ " | 100 |
| 78101118595 | BP-8-P-16 | $\frac{1}{2}$ " to 1" | 100 |
| 78101118600 | BP-12-P-12 | $\frac{3}{4}$ " to $\frac{3}{4}$ " | 100 |
| 78101118605 | BP-12-P-16 | $\frac{3}{4}$ " to 1" | 100 |
| 78101118610 | BP-16-P-16 | 1" to 1" | 100 |

Note: For rigid conduit with BP series, use next size larger fastener ($\frac{1}{2}$ " Rigid use BP-12).

Read safety/installation instruction sheets in packages before use.

Conduit & Cable

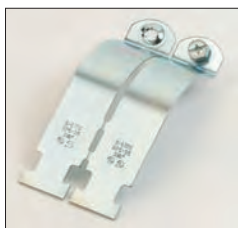


Break-Apart Conduit Clamps

- Patented Multi-Grip design fits Rigid, IMC or EMT conduit.
- Convenient break-apart clamp features retained bolt and $\frac{5}{16}$ " thread impression to eliminate handling of nuts and bolts.
- Finish: Pre-galvanized.
- Static Load Capacity: 200 lbs.



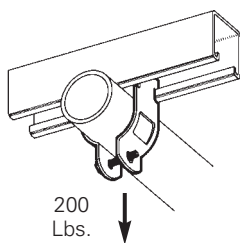
BPC-8 thru BPC-32



BPC-40 thru BPC-64



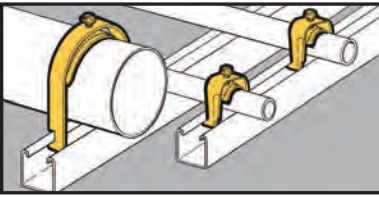
Static Load Capacity



200
Lbs.

| UPC/Part Number | Catalog Number | Rigid or EMT Conduit Size | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101101676 | BPC-8 | 1/2" | 100 |
| 78101101677 | BPC-12 | 3/4" | 100 |
| 78101101680 | BPC-16 | 1" | 100 |
| 78101101679 | BPC-20 | 1 1/4" | 50 |
| 78101101678 | BPC-24 | 1 1/2" | 50 |
| 78101101681 | BPC-32 | 2" | 50 |
| 78101103977 | BPC-40 | 2 1/2" | 50 |
| 78101103978 | BPC-48 | 3" | 50 |
| 78101103979 | BPC-56 | 3 1/2" | 25 |
| 78101103981 | BPC-64 | 4" | 25 |

Patent #4044428



Conduit Strut Clamps



B1532S thru B1564S

B1506S
thru
B1524S



B1508
thru
B1520



- Attaches conduit, flexible conduit or cables to standard strut channels.
- B1506S designed to secure and support MC/AC cables.
- Unique one-piece design eliminates handling of hardware and allows easy installation and removal in side-by-side conduit runs.
- Anti-rock feature prevents clamp from disengaging during installation.
- Finish: Pre-galvanized

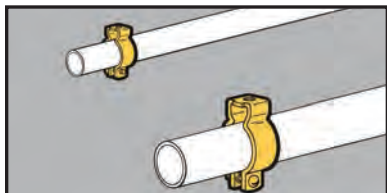
| UPC/Part Number | Catalog Number | Conduit Size | | OD Range Inches | | Static Load Cap. Lbs. | Box Qty. |
|---|----------------|--------------|--------|-----------------|-------|-----------------------|----------|
| | | EMT | Rigid | Min | Max | | |
| 78101163150 | B1508 | 1/2" | – | – | – | 200 | 100 |
| 78101163154 | B1512 | 3/4" | 1/2" | – | – | 200 | 100 |
| 78101163157 | B1516 | 1" | 3/4" | – | – | 300 | 100 |
| 78101163160 | B1520 | 1 1/4" | 1" | – | – | 300 | 100 |
| Note: Clamps without saddle are not recommended for flexible conduit or cable | | | | | | | |
| 78205144495 | B1506S* | 3/8"* | – | .400 | .630 | 200 | 100 |
| 78101163164 | B1508S | 1/2" | – | .250 | .680 | 200 | 100 |
| 78101163168 | B1512S | 3/4" | 1/2" | .500 | .840 | 200 | 100 |
| 78101163171 | B1516S | 1" | 3/4" | .750 | 1.050 | 300 | 100 |
| 78101163177 | B1520S | 1 1/4" | 1" | 1.125 | 1.315 | 300 | 100 |
| 78101163182 | B1524S | 1 1/2" | 1 1/4" | 1.375 | 1.660 | 400 | 50 |
| 78101163188 | B1532S | 2" | 1 1/2" | 1.875 | 2.200 | 400 | 50 |
| 78101163193 | B1534S | – | 2" | 2.125 | 2.375 | 400 | 25 |
| 78101163199 | B1540S | 2 1/2" | 2 1/2" | 2.625 | 2.875 | 400 | 25 |
| 78101163205 | B1548S | 3" | 3" | 3.250 | 3.500 | 400 | 25 |
| 78101163211 | B1556S | 3 1/2" | 3 1/2" | 3.750 | 4.000 | 400 | 10 |
| 78101163215 | B1564S | 4" | 4" | 4.250 | 4.500 | 400 | 10 |

Patent #5022614

- * B1506S will accept the following
 AC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4
 MC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Now available in DURA-COPPER™ finish - add DCU to part number.
- Finish: Zinc-Plated

Conduit Hangers



With Retained Bolt
And
Thread Impression



| UPC/Part Number | Catalog Number | Trade Size | Conduit Size | | Box Qty. |
|-----------------|----------------|------------|--------------|-------|----------|
| | | | EMT | Rigid | |
| 78101119800 | BL1400* | 0 | 1/2" | 1/2" | 100 |
| 78101119801 | BL1410* | 1 | 3/4" | 3/4" | 100 |
| 78101119802 | BL1420* | 2 | 1" | 1" | 100 |



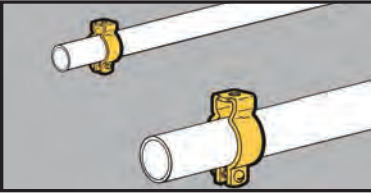
With Bolt And Nut



| UPC/Part Number | Catalog Number | Trade Size | Conduit Size | | Box Qty. |
|-----------------|----------------|------------|--------------|--------|----------|
| | | | EMT | Rigid | |
| 78101119803 | BL1425* | 2.5 | 1 1/4" | -- | 100 |
| 78101119804 | BL1430* | 3 | 1 1/2" | 1 1/4" | 100 |
| 78101119805 | BL1440† | 4 | -- | 1 1/2" | 50 |
| 78101119806 | BL1450† | 5 | 2" | 2" | 50 |
| 78101119807 | BL1460† | 6 | 2 1/2" | 2 1/2" | 25 |
| 78101119808 | BL1470† | 7 | 3" | 3" | 25 |
| 78101119809 | BL1480† | 8 | 3 1/2" | 3 1/2" | 10 |
| 78101119810 | BL1490† | 9 | 4" | 4" | 10 |

* 9/32" mounting hole. † 11/32" mounting hole.

Read safety/installation instruction sheets in packages before use.



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Material: Type 304 Stainless Steel

Stainless Steel Conduit Hangers



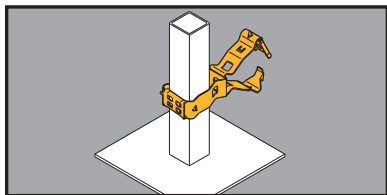
With Bolt And Nut

| UPC/Part Number | Catalog Number | Trade Size | Conduit Size | | Box Qty. |
|-----------------|--------------------|------------|--------------|--------|----------|
| | | | EMT | Rigid | |
| 78101119800 | BL1400-SS4* | 0 | 1/2" | 1/2" | 100 |
| 78101119801 | BL1410-SS4* | 1 | 3/4" | 3/4" | 100 |
| 78101119802 | BL1420-SS4* | 2 | 1" | 1" | 100 |
| 78101119803 | BL1425-SS4* | 2.5 | 1 1/4" | – | 100 |
| 78101119804 | BL1430-SS4* | 3 | 1 1/2" | 1 1/4" | 100 |
| 78101119805 | BL1440-SS4† | 4 | – | 1 1/2" | 50 |
| 78101119806 | BL1450-SS4† | 5 | 2" | 2" | 50 |
| 78101119807 | BL1460-SS4† | 6 | 2 1/2" | 2 1/2" | 25 |
| 78101119808 | BL1470-SS4† | 7 | 3" | 3" | 25 |
| 78101119809 | BL1480-SS4† | 8 | 3 1/2" | 3 1/2" | 10 |
| 78101119810 | BL1490-SS4† | 9 | 4" | 4" | 10 |

* 9/32" mounting hole. † 1 1/32" mounting hole.

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



Guide-Rite™ Conduit To Pedestal Support

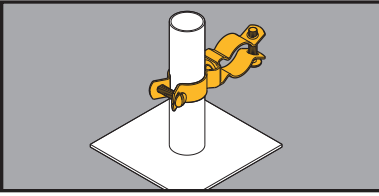
- Supports conduit from square computer floor pedestals.
- Unique Guide-Rite Fastener provides for fast and easy installation with pliers.
- Static Load Capacity: 25 lbs.



| UPC/Part Number | Catalog Number | Conduit Size EMT/Rigid | Box Qty. |
|-----------------|---------------------|------------------------|----------|
| 78205125589 | BG-8-12-G6* | 3/8" | 100 |
| 78101188538 | BG-8-12-G812 | 1/2" or 3/4" | 100 |
| 78101118620 | BG-16-G-8-12 | 1" | 100 |
| 78205125594 | BG-8-12-G20 | 1 1/4" | 50 |
| 78205125595 | BG-8-12-G24 | 1 1/2" | 50 |
| 78205125597 | BG-8-12-G32 | 2" | 50 |

Patent #4958792

- * BG-8-12-G6 will accept the following range \varnothing .420 - \varnothing .675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



Conduit To Pedestal Support

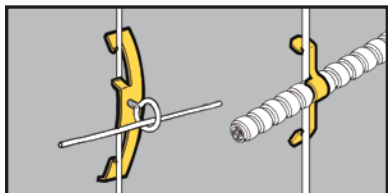
- Supports conduit from 1" O.D. computer floor pedestals.
- Also available in Type 304 Stainless Steel. Contact factory for details.
- Static Load Capacity: 25 lbs.
- Finish: Zinc-Plated



| UPC/Part Number | Catalog Number | Trade Size | Conduit Rigid | Conduit Size EMT | Box Qty. |
|-----------------|---------------------|------------|---------------|------------------|----------|
| 78205125599 | BL1410-L1400 | 0 | 1/2" | 1/2" | 50 |
| 78205125601 | BL1410-L1410 | 1 | 3/4" | 3/4" | 50 |
| 78205125602 | BL1410-L1420 | 2 | 1" | 1" | 50 |
| 78205125603 | BL1410-L1425 | 2.5 | – | 1 1/4" | 50 |
| 78205125607 | BL1410-L1430 | 3 | 1 1/4" | 1 1/2" | 50 |
| 78205125612 | BL1410-L1440 | 4 | 1 1/2" | – | 25 |
| 78205125614 | BL1410-L1450 | 5 | 2" | 2" | 25 |
| 78205125617 | BL1410-L1460 | 6 | 2 1/2" | 2 1/2" | 10 |
| 78205125618 | BL1410-L1470 | 7 | 3" | 3" | 10 |
| 78205125619 | BL1410-L1480 | 8 | 3 1/2" | 3 1/2" | 5 |

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



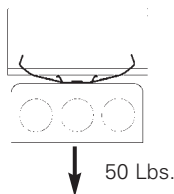
- BW2 and BW6 support #10-24 or 1/4"-20 threaded bridle rings and provide attachment for electrical boxes.
- BW2S & BW6S are provided with one each 1/4"-20 x 3/8" screw and hex nut.
- BW4 supports cables from #12 thru #8 wire.

Rod & Wire Fasteners



| UPC/Part Number | Catalog Number | Drop Rod/ Wire Size | Flange Thickness | Box Qty. |
|-----------------|----------------|---|---------------------|-------------|
| 78101119700 | BW2 | #12 wire thru 1/4" plain or threaded rod | 1/8" - 3/8" | 100 |
| 78205140156 | BW2S | #12 wire thru 1/4" plain or threaded rod | 1/8" - 3/8" | 100 |
| 78101195516 | BW6 | 3/8" plain or threaded rod | 3/8" - 7/16" | 100 |
| 78205140157 | BW6S | 3/8" plain or threaded rod | 3/8" - 7/16" | 100 |

Conduit & Cable



**Static Load
Capacity**



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------------|----------|
| 78101119705 | BW4 | Multi-size Wire Fastener | 100 |

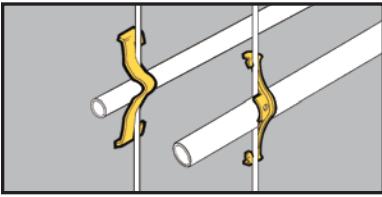


| MC/AC Cable Size | #12 Wire | #10 Wire | #8 & #9 Wire |
|---------------------|-------------|-------------|-----------------|
| 14/2 Cable | BW4 | BW4 | BW4 |
| 14/3 Cable | BW4 | BW4 | BW4 |
| 12/2 Cable | BW4 | BW4 | BW4 |
| 12/3 Cable | BW4 | BW-8 | BW-8 |

BW4 is designed for positioning only. No load rating.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Conduit & Cable



- See BX8 and BX18 for a better solution.
- Attaches conduit to wire rods or flanges.
- Can be used for flexible metallic tubing or armored cable.

Rod & Wire Fasteners



BW-8



BW-16



| UPC/Part Number | Catalog Number | Box Qty. |
|-----------------|----------------|----------|
| 78101119710 | BW-8 | 100 |
| 78101119715 | BW-12 | 100 |
| 78101119720 | BW-16 | 100 |
| 78101119725 | BW-20 | 100 |

| Conduit Size | #10 & #12 Wire | #8 & #9 Wire | 3/16" & 1/4" Rod | 1/8" to 1/4" Flange | 5/16" to 3/8" Flange | 7/16" to 1/2" Flange |
|--------------|----------------|--------------|------------------|---------------------|----------------------|----------------------|
| 1/2" EMT | BW-8 | BW-8 | BW-8 | BW-8 | BW-12 | BW-12 |
| 1/2" Rigid | BW-8 | BW-12 | BW-12 | BW-12 | BW-12 | BW-16 |
| 3/4" EMT | BW-12 | BW-12 | BW-12 | BW-12 | BW-16 | BW-16 |
| 3/4" Rigid | BW-12 | BW-12 | BW-16 | BW-16 | BW-20* | BW-20* |
| 1" EMT | — | BW-16 | BW-16 | BW-16 | BW-20* | BW-20* |
| 1" Rigid | — | — | — | BW-20* | BW-20* | BW-20* |
| 1 1/4" EMT | — | BW-20 | BW-20 | BW-20 | — | — |

*Note: For horizontal applications only.

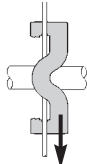
Static Load Capacity

Vertical Flange



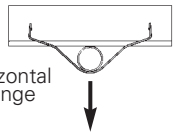
25 Lbs.

Vertical Wire or Rod



50 Lbs.

Horizontal Flange

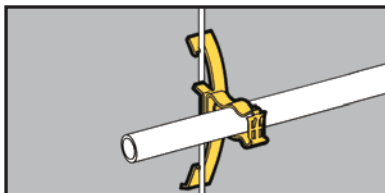


100 Lbs.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



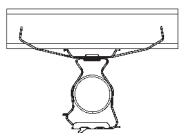
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

Guide-Rite™ Conduit To Rod Fasteners



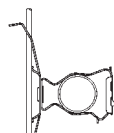
| UPC/Part Number | Catalog Number | Conduit Size EMT/Rigid | Box Qty. |
|-----------------|-------------------|------------------------|----------|
| 78101118540 | BG-8-12-W2 | 1/2", 3/4" | 100 |
| 78101118640 | BG-16-W2 | 1" | 100 |
| 78101195519 | BG-8-12-W6 | 1/2", 3/4" | 100 |
| 78101195520 | BG-16-W6 | 1" | 100 |

Patent #4958792



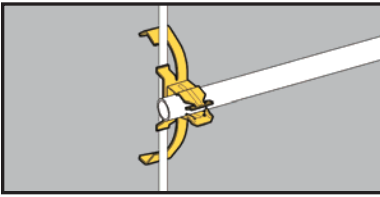
50 Lbs.

**Static Load
Capacity**



25 Lbs.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

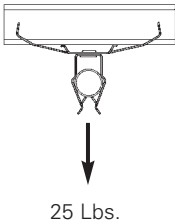


Push-Type Conduit To Rod Fasteners

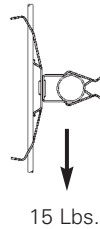
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-----------------|--------------------------------|----------|
| 78101119325 | BP-8-W2 | 1/2" EMT | 100 |
| 78101119420 | BP-12-W2 | 3/4" EMT or 1/2" IMC. Rigid | 100 |
| 78101119505 | BP-16-W2 | 1" EMT or 3/4" IMC, Rigid | 100 |
| 78101195521 | BP-8-W6 | 1/2" EMT | 100 |
| 78101195522 | BP-12-W6 | 3/4" EMT or 1/2" IMC. Rigid | 100 |
| 78101195523 | BP-16-W6 | 1" EMT or 3/4" IMC, Rigid | 100 |

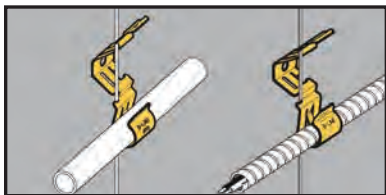


Ultimate Static Load Capacity



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Conduit & Cable

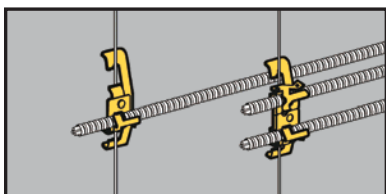


Flex-Rite™ Cable/Conduit To Wire Fasteners



- Can be used in place of batwings.
- Will not bend or deform hanger wire.
- Attaches to #12 - #8 wire and 1/4" plain rod.
- Accommodates MC, AC, 3/8" FMC or 1/2" EMT.
- Cable can be installed before or after attachment to wire.
- Static Load Capacity:
BX-8 - 20 Lbs.
BX-18 - 30 Lbs.

| UPC/Part Number | Catalog Number | Cable/Conduit Size | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101101402 | BX-8 | .375" to 706" O.D. | 100 |
| 78101102943 | BX-18 | .706" to 1.380" O.D. | 100 |
| 78101101685 | BX-8B | Bulk Packed In Fiber Barrels | 4000 |



Cable To Rod Fasteners



BX4-W2

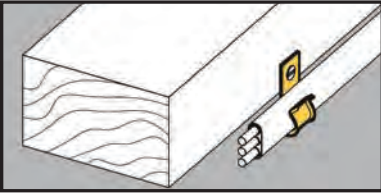


- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8 FMC.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

BX4M-W2

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101101219 | BX4-W2 | Single Runs | 100 |
| 78101101189 | BX4M-W2 | Double Runs | 100 |
| 78101195517 | BX4-W6 | Single Runs | 100 |
| 78101195518 | BX4M-W6 | Double Runs | 100 |

Read safety/installation instruction sheets in packages before use.



- Attaches Type NM cable to most structures.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- May be used with other B-Line fasteners for attachment to acoustical tees, beams, drop wires, etc.

Cable Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101103553 | BRC3 | Type NM Cable Fastener | 100 |



- Supports cable sizes 14/2 and 12/2 with ground wire.
- W2 series supports cable from #12 wire thru 1/4" plain or threaded rod.
- W6 series supports cable from 3/8" plain or threaded rod.

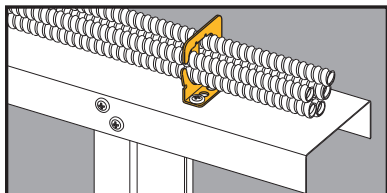
Cable Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101103547 | BRC3-W2 | Type NM Cable To Wire Fastener | 100 |
| 78101195524 | BRC3-W6 | Type NM Cable To Wire Fastener | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Conduit & Cable



Multi-Run Cable Carrier for MC/AC Cable

- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Compatible with new BCH-HBA for multi tier assemblies.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated



BRC5-1



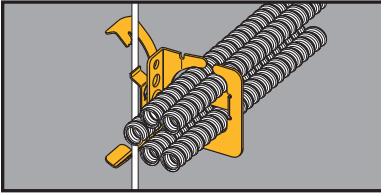
BRC5-2



BRC5-3



| UPC/Part Number | Catalog Number | Cable Diameter & Number Of Runs | Box Qty. |
|-----------------|----------------|---------------------------------|----------|
| 78205143593 | BRC5-1 | .430" to .560" Up To 4 Runs | 50 |
| 78205143594 | BRC5-2 | .430" to .560" Up To 9 Runs | 50 |
| 78205143595 | BRC5-3 | .560" to .690" Up To 7 Runs | 50 |



Multi-Run Cable Carrier for MC/AC Cable



- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- W2 Series attaches to 1/8" thru 3/8" flanges or #12 thru 1/4" plain or threaded rod.
- W6 Series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated

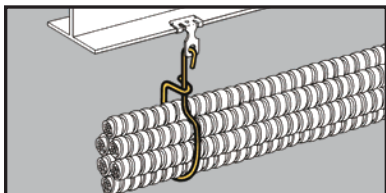


| UPC/Part Number | Catalog Number | Cable Diameter & Number Of Runs | Box Qty. |
|-----------------|-----------------|---------------------------------|----------|
| 78205144075 | BRC51-W2 | .430" to .560" Up To 4 Runs | 25 |
| 78205144076 | BRC52-W2 | .430" to .560" Up To 9 Runs | 25 |
| 78205144077 | BRC53-W2 | .560" to .690" Up To 7 Runs | 25 |
| 78205144078 | BRC51-W6 | .430" to .560" Up To 4 Runs | 25 |
| 78205144079 | BRC52-W6 | .430" to .560" Up To 9 Runs | 25 |
| 78205144080 | BRC53-W6 | .560" to .690" Up To 7 Runs | 25 |

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

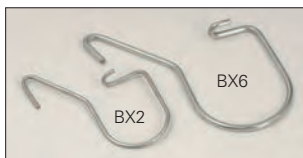
Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Conduit & Cable



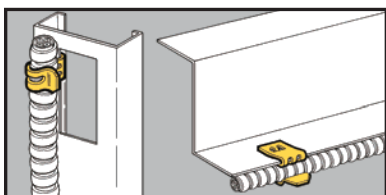
- Designed to support multiple runs of MC, AC, FMC or communication cable.
- Static Load Capacity:
BX2 - 50 lbs.
BX6 & BX24 - 75 Lbs.
- Finish: Zinc Plated

Flexible Cable Support



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------|----------|
| 78205104934 | BX2 | Usable Area = 2 sq. in. | 100 |
| 78205119765 | BX6 | Usable Area = 4 sq. in. | 100 |
| 78205119766 | BX24 | Usable Area = 13 sq. in. | 100 |

Conduit & Cable

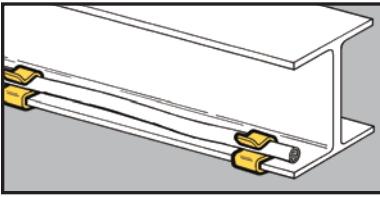


- Fastens flexible conduit and other small cables to beam flanges, bar joists or metal studs.
- Cable O.D. range of 0.42" to 0.70".
- Maximum flange thickness $5/32"$.

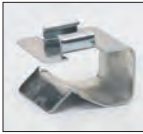
Flexible Conduit/Cable Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101119770 | BX9 | Flexible Conduit Fastener | 100 |



Flexible Conduit/ Cable Fasteners



BFA Series
(For Use with
BXS Series
Only)



BXS
Series



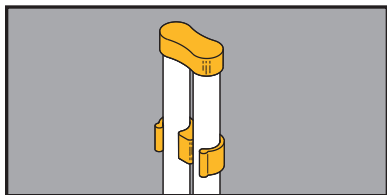
BXL
Series

- Secures cable along flanges 1/16" to 3/4" thick.
- The BFA flange adapters attach BXS series to thicker flanges.
- BX_-67 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX_-1011 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX_-1214 accepts 10/3, romex with ground.
- Finish: Zinc Plated

| UPC/Part Number | Catalog Number | Flange Thickness | Cable Diameter | Box Qty. |
|-----------------|-----------------|------------------|----------------|----------|
| 78101119973 | BXS-67 | 1/16" - 5/32" | .218 to .281 | 100 |
| 78101119974 | BXS-89 | 1/16" - 5/32" | .290 to .375 | 100 |
| 78101119975 | BXS-1011 | 1/16" - 5/32" | .375 to .437 | 100 |
| 78101119976 | BXS-1214 | 1/16" - 5/32" | .444 to .560 | 100 |
| 78101119977 | BXS-1519 | 1/16" - 5/32" | .500 to .718 | 100 |
| 78101119978 | BXS-2024 | 1/16" - 5/32" | .748 to .945 | 100 |
| 78101119979 | BXS-2530 | 1/16" - 5/32" | .968 to 1.250 | 100 |
| 78101119980 | BXM-67 | 5/32" - 9/32" | .218 to .281 | 100 |
| 78101119981 | BXM-89 | 5/32" - 9/32" | .290 to .375 | 100 |
| 78101119982 | BXM-1011 | 5/32" - 9/32" | .375 to .437 | 100 |
| 78101119983 | BXM-1214 | 5/32" - 9/32" | .444 to .560 | 100 |
| 78101119984 | BXM-1519 | 5/32" - 9/32" | .500 to .718 | 100 |
| 78101119985 | BXM-2024 | 5/32" - 9/32" | .748 to .945 | 100 |
| 78101119986 | BXM-2530 | 5/32" - 9/32" | .968 to 1.250 | 100 |
| 78101119987 | BXL-67 | 5/16" - 1/2" | .218 to .281 | 100 |
| 78101119988 | BXL-89 | 5/16" - 1/2" | .290 to .375 | 100 |
| 78101119989 | BXL-1011 | 5/16" - 1/2" | .375 to .437 | 100 |
| 78101119990 | BXL-1214 | 5/16" - 1/2" | .444 to .560 | 100 |
| 78101119991 | BXL-1519 | 5/16" - 1/2" | .500 to .718 | 100 |
| 78101119992 | BXL-2024 | 5/16" - 1/2" | .748 to .945 | 100 |
| 78101119993 | BXL-2530 | 5/16" - 1/2" | .968 to 1.250 | 100 |
| 78101119955 | BFA-1215 | 1/2" - 5/8" | - | 100 |
| 78101119956 | BFA-1520 | 5/8" - 3/4" | - | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Conduit & Cable



Conduit Quick Caps & Spacers



BCS & BES
8 & 8C thru 16 & 16C



BCS 18, 18C, 20, & 20C



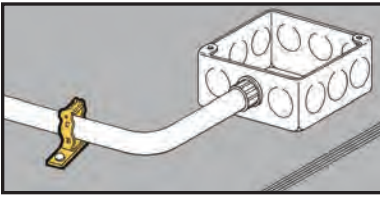
BCS 12AS & 16AS

- Quick caps and spacers eliminate the time consuming method of duct taping conduit stubs.
- Quick spacers are designed to separate and secure conduit during concrete pours.
- Quick caps maintain spacing and keep conduit free from dirt and debris.
- Quick caps and spacers properly space conduit for any 4" square box.
- Available in EMT & Rigid conduit sizes.

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------------|-----------------|----------------------|----------|
| Conduit Spacer | | | |
| 78205122356 | BCS-8 | 1/2" Rigid Conduit | 50 |
| 78205140057 | BES-8 | 1/2" EMT Conduit | 50 |
| 78205122357 | BCS-12 | 3/4" Rigid Conduit | 50 |
| 78205140058 | BES-12 | 3/4" EMT Conduit | 50 |
| 78205122358 | BCS-16 | 1" Rigid Conduit | 50 |
| 78205140059 | BES-16 | 1" EMT Conduit | 50 |
| 79903855806 | BCS-18 | 1 1/2" Rigid Conduit | 25 |
| 79903855807 | BCS-20 | 2" Rigid Conduit | 25 |
| Conduit Cap | | | |
| 78205122359 | BCS-8C | 1/2" Rigid Conduit | 50 |
| 78205140060 | BES-8C | 1/2" EMT Conduit | 50 |
| 78205122361 | BCS-12C | 3/4" Rigid Conduit | 50 |
| 78205140061 | BES-12C | 3/4" EMT Conduit | 50 |
| 78205122362 | BCS-16C | 1" Rigid Conduit | 50 |
| 78205140062 | BES-16C | 1" EMT Conduit | 50 |
| 79903855803 | BCS-18C | 1 1/2" Rigid Conduit | 25 |
| 79903855805 | BCS-20C | 2" Rigid Conduit | 25 |
| Conduit Spacer | | | |
| 79903855808 | BCS-12AS | 3/4" Rigid Conduit | 50 |
| 79903855809 | BCS-16AS | 1" Rigid Conduit | 25 |

Patent #5896892

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



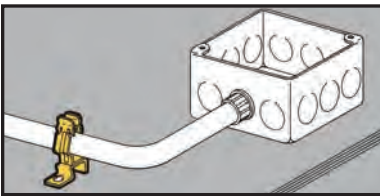
- Eliminates the need for offset bends when used with 1 1/2" deep boxes.
- Attaches conduit to concrete, steel or wood with nails.
- May be attached after conduit positioning.

Conduit Spacer Brackets



BP

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|---------------------------------|-------------------|--------------------------------|----------|
| 78101118495 Patent # 4958792 | BG-8-12-D3 | 1/2" or 3/4" | 100 |
| 78101119265 | BP-8-D3 | 1/2" EMT | 100 |
| 78101118365 | BP-12-D3 | 3/4" EMT or 1/2" IMC, Rigid | 100 |



- Eliminates the need for offset bends when used with 2 1/8" deep boxes.
- Provides secure support between conduit and deck.
- D4 Series is easily installed with screw gun or powder actuated tools.
- Allows for complete conduit layout prior to anchoring.

Conduit Spacer Brackets

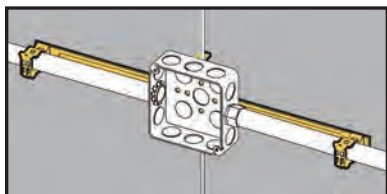


BP

| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|---------------------------------|-------------------|--------------------------------|----------|
| 78101118500 Patent # 4958792 | BG-8-12-D4 | 1/2" or 3/4" | 100 |
| 78101119270 | BP-8-D4 | 1/2" EMT | 100 |
| 78101119370 | BP-12-D4 | 3/4" EMT or 1/2" IMC, Rigid | 100 |
| 78101119460 | BP-16-D4 | 1" EMT or 3/4" IMC, Rigid | 100 |

Read safety/installation instruction sheets in packages before use.

Conduit & Cable

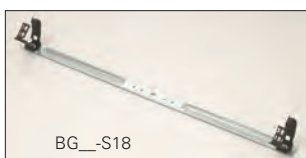


Guide-Rite™ Conduit & Box Support Fasteners



- See pages Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.



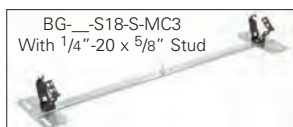
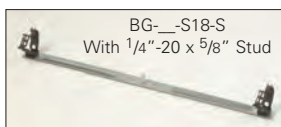
Conduit & Cable

| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Box Qty. |
|-----------------|------------------|--------------------------|----------|
| 78101103575 | BG6-S18 * | 3/8" | 25 |
| 78101103573 | BG812-S18 | 1/2" or 3/4" | 25 |
| 78101103574 | BG16-S18 | 1" | 25 |

With Multiple Conduit Plate

| | | | |
|-------------|----------------------|--------------|----|
| 78205152812 | BG6-S18-MC3 * | 3/8" | 25 |
| 78205152900 | BG812-S18-MC3 | 1/2" or 3/4" | 25 |
| 78205152901 | BG16-S18-MC3 | 1" | 25 |

Patent # 4958792



With Stud

| | | | |
|-------------|-------------------|--------------|----|
| 78205152902 | BG6-S18S * | 3/8" | 25 |
| 78110104979 | BG812-S18S | 1/2" or 3/4" | 25 |
| 78205152903 | BG16-S18S | 1" | 25 |

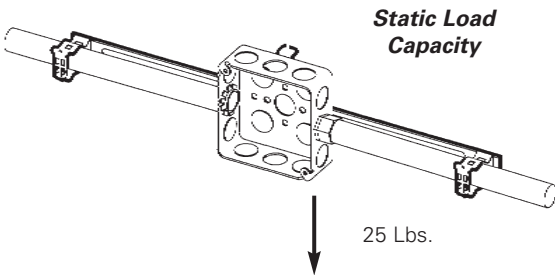
With Stud & Multiple Conduit Plate

| | | | |
|-------------|-----------------------|--------------|----|
| 78205152904 | BG6-S18S-MC3 * | 3/8" | 25 |
| 78205152905 | BG812-S18S-MC3 | 1/2" or 3/4" | 25 |
| 78205152906 | BG16-S18S-MC3 | 1" | 25 |

Conduit & Cable



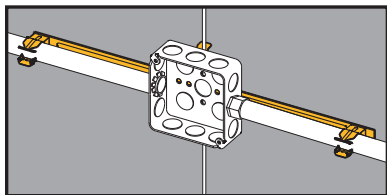
| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Box Qty. |
|---|-------------------------|--------------------------|----------|
| W2 Series for #12 thru 1/4" Rod ** | | | |
| 78101103578 | BG6-S18-W2 * | 3/8" | 25 |
| 78101103577 | BG812-S18-W2 | 1/2" or 3/4" | 25 |
| 78101103577 | BG16-S18-W2 | 1" | 25 |
| W2 Series for #12 thru 1/4" Rod & Multiple Conduit Plate ** | | | |
| 78205152855 | BG6-S18-W2-MC3 * | 3/8" | 25 |
| 78205152739 | BG812-S18-W2-MC3 | 1/2" or 3/4" | 25 |
| 78205152862 | BG16-S18-W2-MC3 | 1" | 25 |
| W6 Series for 3/8" Plain or Threaded Rod ** | | | |
| 78110199581 | BG6-S18-W6 * | 3/8" | 25 |
| 78110199582 | BG812-S18-W6 | 1/2" or 3/4" | 25 |
| 78110199580 | BG16-S18-W6 | 1" | 25 |
| W6 Series for 3/8" Plain or Threaded Rod & Multiple Conduit Plate ** | | | |
| 78205152856 | BG6-S18-W6-MC3 * | 3/8" | 25 |
| 78205152860 | BG812-S18-W6-MC3 | 1/2" or 3/4" | 25 |
| 78205152864 | BG16-S18-W6-MC3 | 1" | 25 |



- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit
- ** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Read safety/installation instruction sheets in packages before use.

Conduit & Cable



Push-Type Conduit & Box Support Fasteners

- See pages Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.



BP__S18

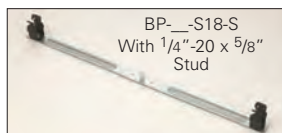


BP__S18-MC3

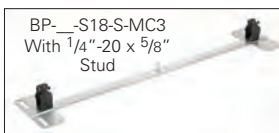
| UPC/Part Number | Catalog Number | Conduit Size (EMT) R(Rigid) | Box Qty. |
|-----------------|-----------------|-----------------------------|----------|
| 78205123604 | BP8-S18 | 1/2" E | 25 |
| 78205123605 | BP12-S18 | 3/4" E or 1/2" R | 25 |
| 78205123606 | BP16-S18 | 1"E, 3/4" R | 25 |

With Multiple Conduit Plate

| | | | |
|-------------|---------------------|------------------|----|
| 78205152907 | BP8-S18-MC3 | 1/2" E | 25 |
| 78205152908 | BP12-S18-MC3 | 3/4" E or 1/2" R | 25 |
| 78205152909 | BP16-S18-MC3 | 1"E, 3/4" R | 25 |



BP__S18-S
With 1/4"-20 x 5/8"
Stud



BP__S18-S-MC3
With 1/4"-20 x 5/8"
Stud

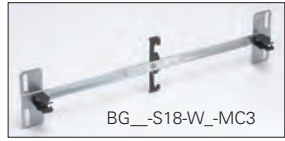
With Stud

| | | | |
|-------------|------------------|------------------|----|
| 78205123631 | BP8-S18S | 1/2" E | 25 |
| 78205123633 | BP12-S18S | 3/4" E or 1/2" R | 25 |
| 78205123634 | BP16-S18S | 1"E, 3/4" R | 25 |

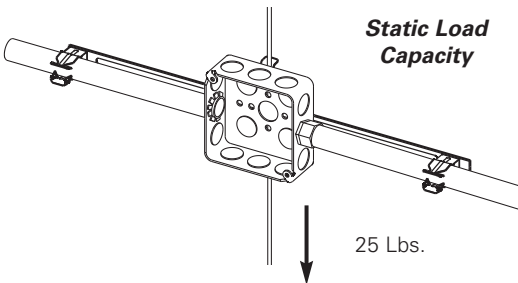
With Stud & Multiple Conduit Plate

| | | | |
|-------------|----------------------|------------------|----|
| 78205152913 | BP8-S18S-MC3 | 1/2" E | 25 |
| 78205152914 | BP12-S18S-MC3 | 3/4" E or 1/2" R | 25 |
| 78205152915 | BP16-S18S-MC3 | 1"E, 3/4" R | 25 |

Conduit & Cable

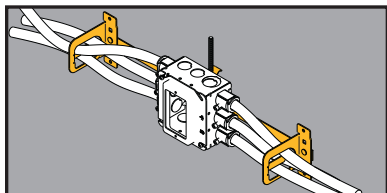


| UPC/Part Number | Catalog Number | Conduit Size E(EMT) R(Rigid) | Box Qty. |
|---|------------------------|---------------------------------|----------|
| W2 Series for #12 thru 1/4" Rod ** | | | |
| 78205123615 | BP8-S18-W2 | 1/2" EMT | 25 |
| 78205123619 | BP12-S18-W2 | 3/4" E or 1/2" R | 25 |
| 78205123627 | BP16-S18-W2 | 1"E, 3/4" R | 25 |
| W2 Series for #12 thru 1/4" Rod & Multiple Conduit Plate ** | | | |
| 78205152847 | BP8-S18-W2-MC3 | 1/2" EMT | 25 |
| 78205152848 | BP12-S18-W2-MC3 | 3/4" E or 1/2" R | 25 |
| 78205152849 | BP16-S18-W2-MC3 | 1"E, 3/4" R | 25 |
| W6 Series for 3/8" Plain or Threaded Rod ** | | | |
| 78205123628 | BP8-S18-W6 | 1/2" EMT | 25 |
| 78205123629 | BP12-S18-W6 | 3/4" E or 1/2" R | 25 |
| 78205123630 | BP16-S18-W6 | 1"E, 3/4" R | 25 |
| W6 Series for 3/8" Plain or Threaded Rod & Multiple Conduit Plate ** | | | |
| 78205152850 | BP8-S18-W6-MC3 | 1/2" EMT | 25 |
| 78205152851 | BP12-S18-W6-MC3 | 3/4" E or 1/2" R | 25 |
| 78205152854 | BP16-S18-W6-MC3 | 1"E, 3/4" R | 25 |



** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Conduit & Cable



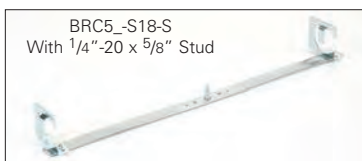
Multi-Run Cable Carrier & Box Support Fasteners



- Riveted assembly provides support for electrical boxes and cable runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Cable retention tab is open for easy loading and contains the cables when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.

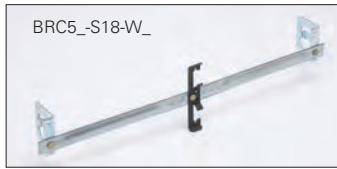


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|------------------|-------------------------------|----------|
| 78205152916 | BRC51-S18 | Up to 4 runs .430" - .560" | 25 |
| 78205152918 | BRC53-S18 | Up to 7 runs .560" - .690" | 25 |



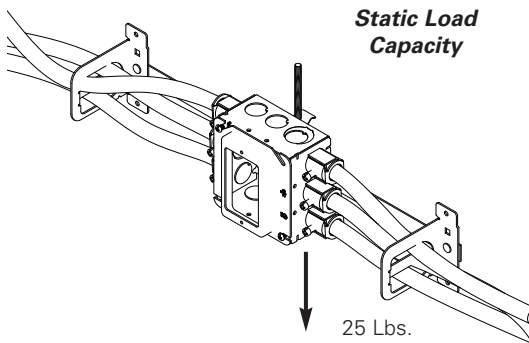
| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|------------------|-------------------|-------------------------------|----------|
| With Stud | | | |
| 78205152919 | BRC51-S18S | Up to 4 runs .430" - .560" | 25 |
| 78205152921 | BRC53-S18S | Up to 7 runs .560" - .690" | 25 |

Conduit & Cable



| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|---|---------------------|-------------------------------|----------|
| W2 Series for #12 thru 1/4" Rod ** | | | |
| 78205152865 | BRC51-S18-W2 | Up to 4 runs .430" - .560" | 25 |
| 78205152869 | BRC53-S18-W2 | Up to 7 runs .560" - .690" | 25 |

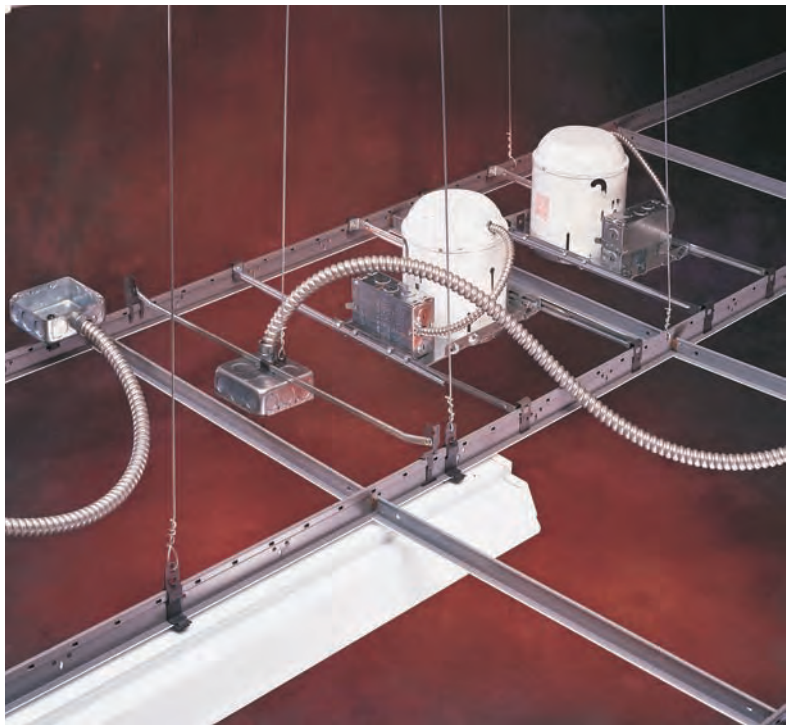
| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|--|---------------------|-------------------------------|----------|
| W6 Series for 3/8" Plain or Threaded Rod ** | | | |
| 78205152866 | BRC51-S18-W6 | Up to 4 runs .430" - .560" | 25 |
| 78205152870 | BRC53-S18-W6 | Up to 7 runs .560" - .690" | 25 |



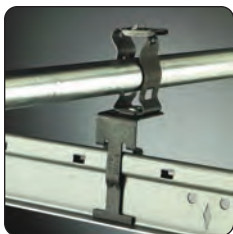
** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

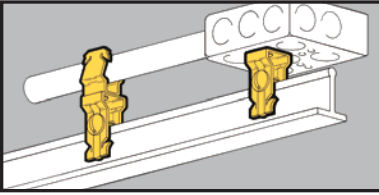
Read safety/installation instruction sheets in packages before use.

Acoustical Tee



Acoustical Tee



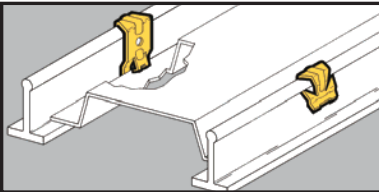


T-Bar Support Fasteners



- Attaches to top of acoustical T-Bar with 1/4"-20 screw.
- Has 1/4"-20 thread impression for attachment to box or conduit fastener.
- **Warning:** Do not use for hanging acoustical tee.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------|----------|
| 78101118090 | BA14 | T-Bar Support Clip | 100 |



Troffer Fasteners

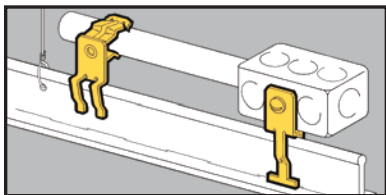


- Gives positive support for troffers and lay-in fixtures.
- Complies with NEC Article 410.16(C) for fixtures supported by suspended ceilings.
- Fits rectangular or round head T-Bars.
- Commonly known as "Hurricane Clip".

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--|----------|
| 78101118095 | BA15 | For Straight Lip or Uprturned Lip Fixtures | 100 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Acoustical Tee



- A positive method for supporting vertical boxes, conduit or cable above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

Side Mount T-Bar Fasteners

BA5-4T



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101118095 | BA5-4T | With 1/4"-20 Thread Impression | 100 |

BG Series



BP Series

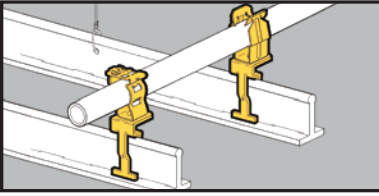


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-------------------|-----------------|----------|
| 78101118410 | BG-6-A5 * | 3/8" | 100 |
| 78101118465 | BG-8-12-A5 | 1/2", 3/4" | 100 |
| 78101118545 | BG-16-A5 | 1" | 100 |
| Patent #4958792 | | | |
| 78101119235 | BP-8-A5 | 1/2" EMT | 100 |
| 78101119335 | BP-12-A5 | 3/4" EMT | 100 |
| | | 1/2" IMC, Rigid | |
| 78101118545 | BP-16-A5 | 1" EMT | 100 |
| | | 3/4" IMC, Rigid | |

- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Acoustical Tee



- A positive method for supporting horizontal boxes or conduit above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

Top Mount T-Bar Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101118125 | BA6-4T | With 1/4"-20 Thread Impression | 100 |

BG Series



BP Series

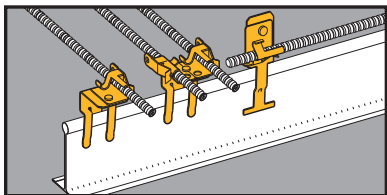


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|-------------------|-----------------|----------|
| 78101188540 | BG-6-A6 * | 3/8" | 100 |
| 78101118470 | BG-8-12-A6 | 1/2", 3/4" | 100 |
| 78101118550 | BG-16-A6 | 1" | 100 |
| Patent #4958792 | | | |
| 78101119240 | BP-8-A6 | 1/2" EMT | 100 |
| 78101119340 | BP-12-A6 | 3/4" EMT | 100 |
| | | 1/2" IMC, Rigid | |
| 78101119435 | BP-16-A6 | 1" EMT | 100 |
| | | 3/4" IMC, Rigid | |

- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
 14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

Read safety/installation instruction sheets in packages before use.
 These products are designed for positioning only. No load rating.

Acoustical Tee



- A positive method for supporting cable or flexible conduit above T-Bar.
- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8" FMC.

Top Mount T-Bar Fasteners

BX4-A6



BX4M-A6



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101101220 | BX4-A6 | Single Runs | 100 |
| 78101101216 | BX4M-A6 | Double Runs | 100 |

Note: Fasteners will rotate 360°.

BX4-A5



BX4M-A5

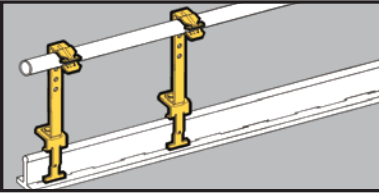


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101101187 | BX4-A5 | Single Runs | 100 |
| 78101101211 | BX4M-A5 | Double Runs | 100 |

Note: Fasteners will rotate 360°.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Acoustical Tee



Support Fasteners

BA28



- Supports conduit and electrical boxes above T-Bar.
- Height adjusts from 4¹/₄" to 7¹/₄".
- Conduit fasteners can be attached at ³/₄" increments.
- BX4M-A28 supports cable or FMC above T-Bar.

BX4M-A28

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|---|----------|
| 78101118115 | BA28 | 1/2" Holes Allow for Adjustment Between 4 ¹ / ₄ " and 7 ¹ / ₄ " at ³ / ₄ " Increments | 50 |
| 78101101211 | BX4M-A28 | Double Runs MC, AC, or FMC | 25 |

BP-12-A28

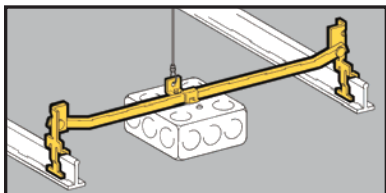


| UPC/Part Number | Catalog Number | Conduit Size | Box Qty. |
|-----------------|------------------|-----------------------------|----------|
| 78101119230 | BP-8-A28 | 1/2" EMT | 100 |
| 78101119330 | BP-12-A28 | 3/4" EMT 1/2" IMC, Rigid | 100 |
| 78101119425 | BP-16-A28 | 1" EMT 3/4" IMC, Rigid | 100 |

Note: Adjustable BP Conduit Fastener is attached with screw in 7¹/₄" top hole position.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Acoustical Tee



Electrical Box T-Bar Fasteners



- See BA50 for a stronger, more cost effective solution.
- Supports octagonal or square boxes.
- Allows for flush mounting or $\frac{3}{4}$ " offset for plaster ring.
- One BB27 box mounting clip with screw included with each hanger.
- Load Capacity: 20 lbs.
- For additional support, attach dropwire to BB27 box mounting clip.
- **Warning:** Do not use for hanging acoustical tee.

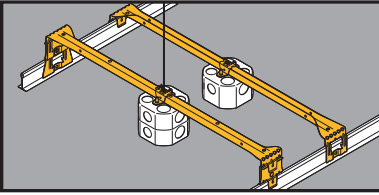
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78101118080 | BA12 | Box Hanger 24" Span | 50 |
| 78101118082 | BA12-12 | Box Hanger 12" Span | 50 |
| 78101118085 | BA120 | Box Hanger 20" Span | 50 |
| 78101118087 | BA130 | Box Hanger 30" Span | 50 |



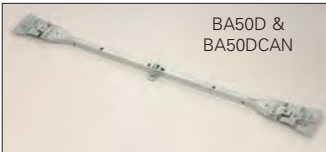
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|---|--|----------|
| 78101118170 | BB27 | Box Mounting Clip (with Screw) | 100 |
| 78101101673 | SRHMS$\frac{1}{4}$x$\frac{3}{8}$ | $\frac{1}{4}$ "-20 x $\frac{3}{8}$ " Slotted Round Head Machine Screw | 50 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



Heavy Duty Electrical Box Hanger



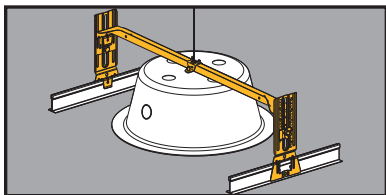
- Supports octagonal or square boxes on 24" span.
- Bendable ends mount 1 1/2" or 2 1/8" deep boxes without tools.
- Self-centering feature positions box on center.
- Includes BA50C4T Box Mounting Clip.
- Ultimate Static Load Capacity: 50 Lbs. (without dedicated dropwire)
- Static Load Capacity: 70 Lbs. (with dedicated dropwire) 35 Lbs. Canada
- Finish: Pre-galvanized
- See Ruff-IN™ brochure for pre-fab box assemblies.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-------------------|--|----------|
| 78101196490 | BA50 | Box Hanger | 25 |
| 78205135905 | BA50CAN * | Box Hanger | 25 |
| 78101196491 | BA50D | Box Hanger for Box with 1 1/2" Extension | 25 |
| 78205135906 | BA50DCAN * | Box Hanger Box with 1 1/2" Extension | 25 |
| 78205136570 | BA50C4T | Box Mounting Clip with Hardware | 25 |
| 78205136571 | BA50C3T * | Box Mounting Clip with Hardware | 25 |
| 78101196489 | BA50E | Extender Brackets with Hardware | 10 pair |

* Canada Only

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



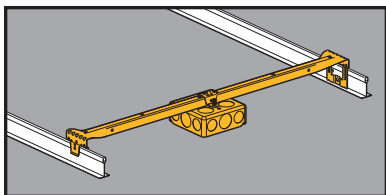
- Adjustable box support for suspended ceilings.
- Accommodates heights up to 8³/₄".
- Integral ruler enables height adjustments without measuring.

Adjustable Box Support



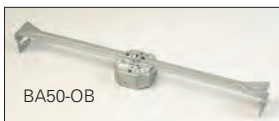
- Ideal for installation of speaker cases, emergency light fixtures, etc. in suspended ceilings.
- Static Load Capacity:
25 Lbs. without dedicated dropwire
70 Lbs. with dedicated dropwire
35 Lbs. (Canada) with dedicated dropwire
- See Ruff-IN™ brochure for pre-fab box assemblies.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------------|----------|
| 78205118460 | BA50A | Adjustable Box Hanger T-Bar | 10 |



- Pre-assembled T-Bar fasteners speed installation.
- Boxes have 1/2" and 3/4" knockouts.
- Loading not to exceed 50 lbs. in U.S.A. without independent support.
35 Lbs. in Canada
- 24" span

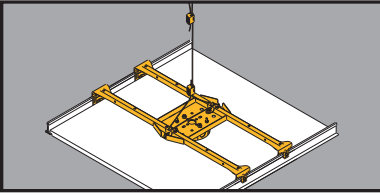
Electrical Box T-Bar Fasteners



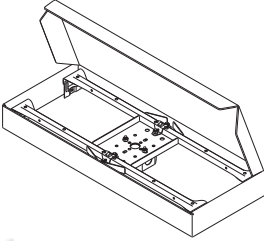
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-------------------|--|----------|
| 78205124855 | BA50-OB-24 | 1 ¹ / ₂ " Deep Box to T-Bar Fastener | 10 |
| 78205124856 | BA50-OB-34 | 2 ¹ / ₈ " Deep Box to T-Bar Fastener | 10 |
| 78205124857 | BA50-SB-24 | 1 ¹ / ₂ " Deep Box to T-Bar Fastener | 10 |
| 78205150954 | BA50-SB-34 | 2 ¹ / ₈ " Deep Box to T-Bar Fastener | 10 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee

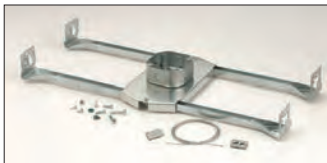
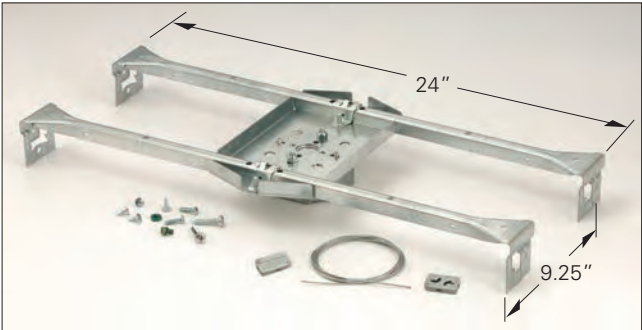


RediMount™ Fan Hanger



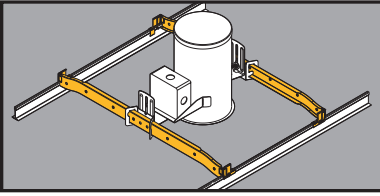
- Pre-assembled fan/ fixture hanger installs on T-Bar in less than 30 seconds.
- Positions and secures fans and fixtures in suspended ceilings.
- Includes Kwik-Wire™ cable and clamps which attach to mounting clips for easy installation.
- Recommended for use in seismic areas.
- UL Listed for fan support up to 70 lbs. or fixture support up to 90 lbs. 35 Lbs. Canada
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101196492 | BA50F | Fan/Fixture Hanger Includes 4" x 11/2" Deep Octagon Box | 1 |



Read safety/installation instruction sheets in packages before use.

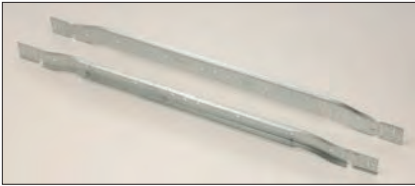
Acoustical Tee



QuikFix™ Fastening System



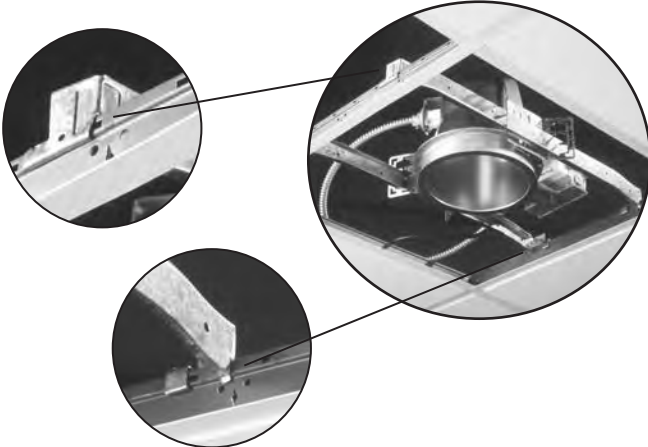
- New QuikFix™ Fastening System mounts spec grade downlights 50% faster than “wire bound” installation methods.
- QuikFix™ System is pre-sized for 24" spacing.
- No tools required.
- Recommended for use in seismic areas.
- UL listed for fixture support up to 50 lbs.



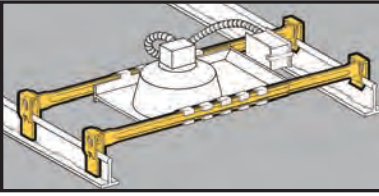
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205199873 | BA40 | Fixture Bar | 20 pair |

Patent # 6286265

- Innovative design features offset bar hangers with integral locking tabs that secure downlights to T-Bar and prevent lifting or sliding.

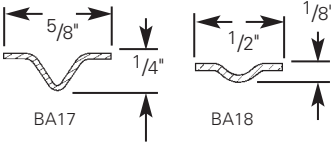


Acoustical Tee

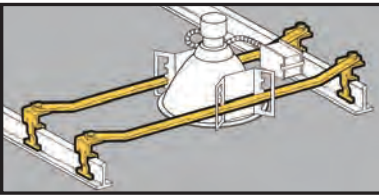


- Adjustable span from 20" to 30".
- Fits horizontal and vertical flanges.
- Fixture position is adjustable.
- No center clips or tools required.
- One set completes one fixture installation (four bars per set).

Light Fixture T-Bar Fasteners



| UPC/Part Number | Catalog Number | "High Hat" Fixtures | Box Qty. |
|-----------------|-----------------------------|---|----------|
| 78101118100 | BA17 (Wide Bar) | CAPRI ¹ R-9X, R-10X CAPRI ¹ R-10X CAPRI ¹ PR-751CX HALO ² H7, HALO ² H17 JUNO ³ AP, APT JUNO ³ IC, ICT, J, SC, TC THOMAS ⁴ RI-C | 10 sets |
| 78101118105 | BA18 (Narrow Bar) | CAPRI ¹ HSG LIGHTOLIER ⁵ 711 | 10 sets |



- Fixture position is adjustable within the span of the hanger.
- Fixed span of 24 inches for T-Bar applications.
- Requires only a screwdriver to install.
- One set completes one fixture installation (four bars per set).

Light Fixture T-Bar Fasteners



| UPC/Part Number | Catalog Number | "High Hat" Fixtures | Box Qty. |
|-----------------|---------------------------|--|----------|
| 78101118110 | BA20 (Wide Bar) | Fits LIGHTOLIER ⁵ CALCULITE ⁵ Fixtures | 10 sets |

1. CAPRI is a mark used by Thomas Industries, Inc., Louisville, KY.
 2. HALO[®] is the registered trademark of Cooper Industries, Elk Grove, IL.
 3. JUNO[®] is the registered trademark of JUNO Lighting, Inc., Morton Grove, IL.
 4. THOMAS[®] is the registered trademark of Thomas Industries, Inc., Louisville, KY.
 5. LIGHTOLIER[®] and CALCULITE[®] are the registered trademarks of Lightolier, Inc., Secaucus, NJ.

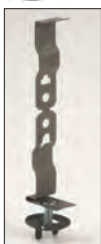
Read safety/installation instruction sheets in packages before use.

Acoustical Tee



- Allows for independent suspension of fixtures.
- Fits most acoustical T-Bars.
- BA-4-WN wing nut included with all 1/4"-20 suspension hangers.
- Static Load Capacity: 65 Lbs.

Suspension Fasteners



BA1



BA1-T



BA1-T-BN

| UPC/Part Number | Catalog Number | T-Bar Size | Stud Size | Box Qty. |
|-----------------|-----------------|------------|--------------------------------|----------|
| 78101118065 | BA1 | 15/16" | 1/4"-20 x 5/8" | 100 |
| 78101118070 | BA1-24 | 15/16" | 1/4"-20 x 1 1/2" | 100 |
| 78101118075 | BA1-32 | 15/16" | 1/4"-20 x 2" | 100 |
| 78101102891 | BA1-T | 15/16" | #8-32 x 5/8" with Pal Nut | 100 |
| 78101102897 | BA1-T-BN | 15/16" | #8-32 x 5/8" with Brass Nut | 100 |

Acoustical Tee

BA1-9

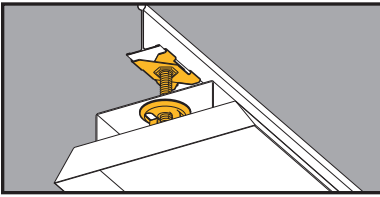


BA1-95



| UPC/Part Number | Catalog Number | T-Bar Size | Stud Size | Box Qty. |
|-----------------|----------------|-------------------|----------------|----------|
| 78205125585 | BA1-9 | 9/16" | 1/4"-20 x 5/8" | 100 |
| 78205125587 | BA1-95 | 9/16" & 15/16" | 1/4"-20 x 5/8" | 100 |

Acoustical Tee

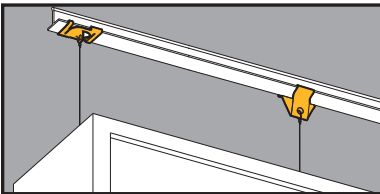


T-Bar Scissor Fasteners

- Supports electrical fixtures from standard $1\frac{5}{16}$ " T-Bars.
- BA-4-WN wing nut included.
- $\frac{1}{4}$ "-20 stud available in varying lengths.
- Static Load Capacity: 50 Lbs.



| UPC/Part Number | Catalog Number | Stud Length | Box Qty. |
|-----------------|--------------------|------------------|----------|
| 78101104258 | BAX-4-16 | $\frac{5}{8}$ " | 100 |
| 78101104262 | BAX-4-16-24 | $1\frac{1}{2}$ " | 100 |
| 78101104263 | BAX-4-16-32 | 2" | 100 |
| 78101104264 | BAX-4-16-48 | 3" | 100 |



Sign Hangers

- BA-4-16-H supports signs from $1\frac{5}{16}$ " T-Bar.
- BA-4-16-H1 supports signs from $\frac{9}{16}$ " or $1\frac{5}{16}$ " T-Bar.
- Static Load Capacity: 40 Lbs.



BA-4-16-H

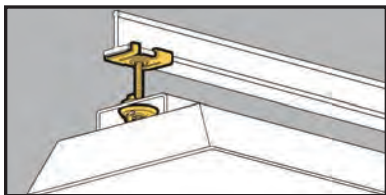


BA-4-16-H1

| UPC/Part Number | Catalog Number | Stud Length | Box Qty. |
|-----------------|-------------------|-------------------------------------|----------|
| 78101118040 | BA-4-16-H | Sign Hanger with White Finish | 100 |
| 78101104449 | BA-4-16-H1 | Sign Hanger with Zinc Plated Finish | 100 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



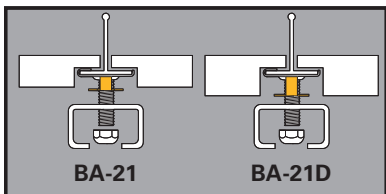
- Supports electrical fixtures from 15/16" T-Bar.
- 1/4"-20 stud available in varying lengths.
- Includes BA-4-WN wing nut with impression.
- Static Load Capacity:
BA4-16 Series = 50 lbs.
BA4-WN Series = 100 lbs.

15/16" Twist Fasteners



BA-4-WN

| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|-------------------|--------|-------------|----------|
| 78101118020 | BA-4-16 | Black | 5/8" | 100 |
| 78101118055 | BA-4-16-W | White | 5/8" | 100 |
| 78101118025 | BA-4-16-24 | White | 1 1/2" | 100 |
| 78101118030 | BA-4-16-32 | White | 2" | 100 |
| 78101118035 | BA-4-16-48 | White | 3" | 100 |
| 78101118060 | BA-4-WN | Black | | 100 |



- T-Bar spacer provides flush mounting surface for tegular tile installations.
- Spacer must be used in combination with B-Line's BA-4-16 or BA-2-16 series fasteners.
- Finish: Zinc Plated

T-Bar Spacers

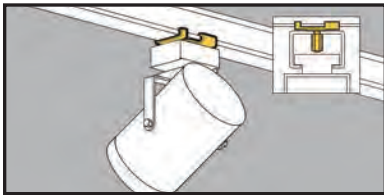


BA-21

BA-21D

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101195575 | BA-21 | 1/4" Spacer | 100 |
| 78101199567 | BA-21D | 3/8" Spacer | 100 |

Acoustical Tee



- Supports electrical fixtures from 15/16" T-Bar.
- #8-32 stud available in varying lengths.
- Static Load Capacity: 25 Lbs.

15/16" Twist Fasteners



| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|--------------------|--------|--------------------|----------|
| 78101118000 | BA-2-16 | Black | 5/8" with Pal Nut | 100 |
| 78101104259 | BA-2-16-7 | Black | 7/16" with Pal Nut | 100 |
| 78101118010 | BA-2-16-W | White | 5/8" with Pal Nut | 100 |
| 78101104261 | BA-2-16-7-W | White | 7/16" with Pal Nut | 100 |

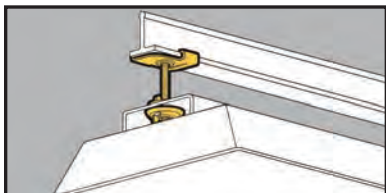


| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|----------------------|--------|----------------------|----------|
| 78101118015 | BA-2-16-BN | Black | 5/8" with Brass Nut | 100 |
| 78101104260 | BA-2-16-7-BN | Black | 7/16" with Brass Nut | 100 |
| 78101118015 | BA-2-16-WBN | White | 5/8" with Brass Nut | 100 |
| 78101199566 | BA-2-16-7-WBN | White | 7/16" with Brass Nut | 100 |

Acoustical Tee

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



- Supports electrical fixtures from 9/16" T-Bar.
- Stud size: 1/4"-20 x 5/8".
- Static Load Capacity: 40 Lbs.

9/16" Twist Fasteners



| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|-----------------|--------|-------------|----------|
| 78101103458 | BA-4-9 | Black | 5/8" | 100 |
| 78101103461 | BA-4-9-W | White | 5/8" | 100 |



- Supports electrical fixtures and track lighting from 9/16" T-Bar.
- Stud size: #8-32 x length.
- Static Load Capacity: 25 Lbs.

9/16" Twist Fasteners

BA-2-9 Series with Pal Nut



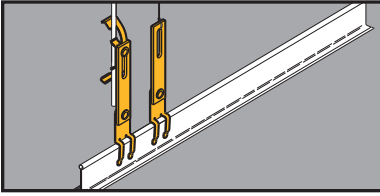
BA-2-9-BN Series with Brass Nut



| UPC/Part Number | Catalog Number | Finish | Stud Length | Box Qty. |
|-----------------|--------------------|--------|-------------|----------|
| 78101103467 | BA-2-9 | Black | 5/8" | 100 |
| 78101103466 | BA-2-9-7 | Black | 7/16" | 100 |
| 78101103459 | BA-2-9-W | White | 5/8" | 100 |
| 78101103465 | BA-2-9-BN | Black | 5/8" | 100 |
| 78101103464 | BA-2-9-7-BN | Black | 7/16" | 100 |
| 78101103460 | BA-2-9-WBN | White | 5/8" | 100 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



Drop Wire/Rod Securing Clip

- Secures independent support wires to ceiling grid as required by NEC Article 300.11.
- Slotted design permits adjustment when securing rods.
- Bright yellow color, Per NEC 300.11 (A), is easily identified by inspectors.



BA-311



BA-311-W2 Shown

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|----------------------------|----------|
| 78101199569 | BA311 | #12 thru #8 Wire | 100 |
| 78101199570 | BA311-W2 | #12 thru 1/4" Plain or | 100 |
| 78101199571 | BA311-W6 | 3/8" Plain or Threaded Rod | 100 |

Read safety/installation instruction sheets in packages before use.

Acoustical Tee



Seismic Fixture Clamps

- BA-SFC Series provides seismic restraint for light fixtures within a suspended ceiling.
- BA-SFC reduces labor by attaching light fixtures to the T-bar frame and eliminating extra drop wires or chains.
- Provides positive attachment of fixtures to ceiling grid members, in compliance with ICBO Acceptance Criteria 184 (AC 184).
- Satisfies NEC 410.16(C) which requires positive attachment for secure fastening of luminaries.
- Load rating: 200 lbs.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-------------------|---|----------------------------|
| 78205145911 | BA-SFC | Seismic Fixture Clamp attaches one standard 2' x 4' light fixture to T-Bar ceiling | 25 sets (4 clamps per set) |
| 78205145912 | BA-SFC-E* | For attachment of two standard 2' x 4' light fixtures end-to-end onto T-Bar ceiling | 25 sets (4 clamps per set) |
| 78205145913 | BA-SFC-S* | For attachment of two standard 2' x 4' light fixtures side-by-side onto T-Bar ceiling | 25 sets (4 clamps per set) |
| 78205145914 | BA-SFC-CF* | For attachment of standard 2' x 2' light fixtures onto T-Bar | 50 sets (2 clamps per set) |
| 78205145915 | BA-SFC-CFS | Seismic Fixture Clamp for reinforcement of main runner connection points | 50 sets (2 clamps per set) |

* BASFC is required to complete installation.

Seismic Fixture Clamps cont.



BA-SFC



BA-SFC-E



BA-SFC-S

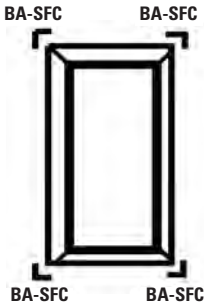


BA-SFC-CF



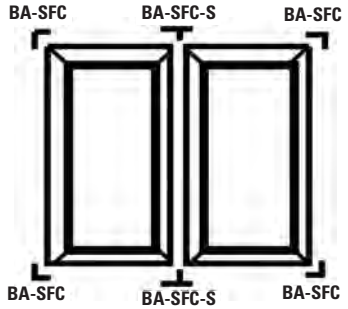
BA-SFC-CFS

Single Fixture
Installation



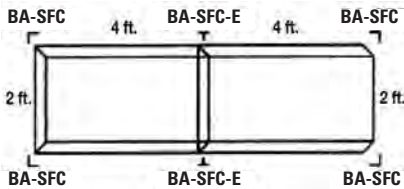
Parts Required:
1 pc. BA-SFC Installation Kit

Two Fixtures (Side by Side)



Parts Required:
1 pc. BA-SFC Installation Kit
1 pc. BA-SFC-S Installation Kit

Two Fixtures (End to End)



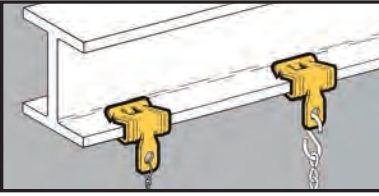
Parts Required:
1 pc. BA-SFC Installation Kit
1 pc. BA-SFC-E Installation Kit



Beams



Beams



- Permits fast and easy installation on bulb tees and beams.
- Clearance hole for 1/4" bolt in tab.
- Simply installed with a hammer.

Flange Beam Fasteners



| UPC/Part Number | Catalog Number | Flange Thickness | Static Load Cap. | Box Qty. |
|-----------------|----------------|------------------|------------------|----------|
| 78101118290 | BE-1-2 | 3/32" - 9/64" | 160 lbs. | 100 |



BE-2-4

| UPC/Part Number | Catalog Number | Flange Thickness | Static Load Cap. | Box Qty. |
|-----------------|----------------|------------------|------------------|----------|
| 78101118295 | BE-2-4 | 1/8" - 1/4" | 200 lbs. | 100 |
| 78101118300 | BE-5-8 | 5/16" - 1/2" | 200 lbs. | 100 |
| 78101118305 | BE-9-12 | 9/16" - 3/4" | 200 lbs. | 100 |

Read safety/installation instruction sheets in packages before use.

Beams



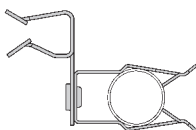
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

Push-Type Conduit To Beam Fasteners



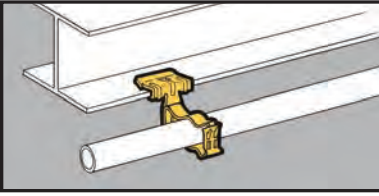
| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|-----------------------------|------------------|----------|
| 78101119275 | BP-8-E-2-4 | 1/2" EMT | 1/8" - 1/4" | 100 |
| 78101119280 | BP-8-E-5-8 | 1/2" EMT | 5/16" - 1/2" | 100 |
| 78101119285 | BP-8-E-9-12 | 1/2" EMT | 9/16" - 3/4" | 100 |
| 78101119375 | BP-12-E-2-4 | 1/2" EMT 1/2" IMC, Rigid | 1/8" - 1/4" | 100 |
| 78101119380 | BP-12-E-5-8 | 1/2" EMT 1/2" IMC, Rigid | 5/16" - 1/2" | 100 |
| 78101119385 | BP-12-E-9-12 | 1/2" EMT 1/2" IMC, Rigid | 9/16" - 3/4" | 100 |
| 78101119465 | BP-16-E-2-4 | 1" EMT 3/4" IMC, Rigid | 1/8" - 1/4" | 100 |
| 78101119470 | BP-16-E-5-8 | 1" EMT 3/4" IMC, Rigid | 5/16" - 1/2" | 100 |
| 78101119475 | BP-16-E-9-12 | 1" EMT 3/4" IMC, Rigid | 9/16" - 3/4" | 100 |

**Ultimate
Static Load
Capacity**



15 Lbs.





- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

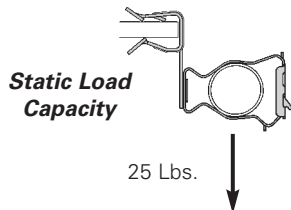
Guide-Rite™ Conduit To Beam Fasteners



| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|-----------------------|--------------|------------------|----------|
| 78101118430 | BG-6-E-2-4 | 3/8" | 1/8" - 1/4" | 100 |
| 78101118435 | BG-6-E-5-8 | 3/8" | 5/16" - 1/2" | 100 |
| 78101118440 | BG-6-E-9-12 | 3/8" | 9/16" - 3/4" | 100 |
| 78101118505 | BG-8-12-E-2-4 | 1/2", 3/4" | 1/8" - 1/4" | 100 |
| 78101118510 | BG-8-12-E-5-8 | 1/2", 3/4" | 5/16" - 1/2" | 100 |
| 78101118515 | BG-8-12-E-9-12 | 1/2", 3/4" | 9/16" - 3/4" | 100 |
| 78101118575 | BG-16-E-2-4 | 1" | 1/8" - 1/4" | 100 |
| 78101118580 | BG-16-E-5-8 | 1" | 5/16" - 1/2" | 100 |
| 78101118585 | BG-16-E-9-12 | 1" | 9/16" - 3/4" | 100 |
| 78101118660 | BG-20-E-2-4 | 1 1/4" | 1/8" - 1/4" | 100 |
| 78101118665 | BG-20-E-5-8 | 1 1/4" | 5/16" - 1/2" | 100 |
| 78101118670 | BG-20-E-9-12 | 1 1/4" | 9/16" - 3/4" | 100 |
| 78101118705 | BG-24-E-2-4 | 1 1/2" | 1/8" - 1/4" | 50 |
| 78101118710 | BG-24-E-5-8 | 1 1/2" | 5/16" - 1/2" | 50 |
| 78101118715 | BG-24-E-9-12 | 1 1/2" | 9/16" - 3/4" | 50 |
| 78101118745 | BG-32-E-2-4 | 2" | 1/8" - 1/4" | 50 |
| 78101118750 | BG-32-E-5-8 | 2" | 5/16" - 1/2" | 50 |
| 78101118755 | BG-32-E-9-12 | 2" | 9/16" - 3/4" | 50 |

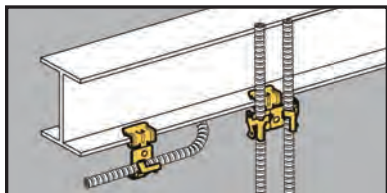
Patent #4958792

- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable
and 5/16 or 3/8 flexible conduit



Read safety/installation instruction sheets in packages before use.

Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

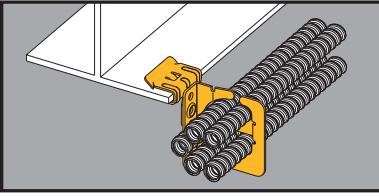
Cable To Beam Fasteners



| UPC/Part Number | Catalog Number | Types Of Runs | Flange Thickness | Box Qty. |
|-----------------|-------------------|---------------|------------------|----------|
| 78101101192 | BX4-E-2-4 | Single | 1/8" - 1/4" | 100 |
| 78101101193 | BX4-E-5-8 | Single | 5/16" - 1/2" | 100 |
| 78101101194 | BX4-E-9-12 | Single | 9/16" - 3/4" | 100 |



| UPC/Part Number | Catalog Number | Types Of Runs | Flange Thickness | Box Qty. |
|-----------------|--------------------|---------------|------------------|----------|
| 78101101213 | BX4M-E-2-4 | Double | 1/8" - 1/4" | 100 |
| 78101101214 | BX4M-E-5-8 | Double | 5/16" - 1/2" | 100 |
| 78101101215 | BX4M-E-9-12 | Double | 5/16" - 3/4" | 100 |



MC/AC Cable Carrier to Beam Fastener

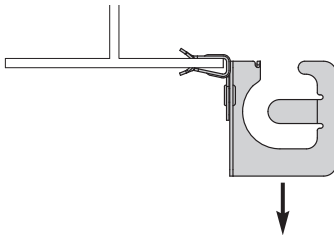


BRC5-2-E24



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|-------------------|------------------|----------|
| 78205144093 | BRC51-E12 | 3/32" - 9/64" | 25 |
| 78205144096 | BRC51-E24 | 1/8" - 1/4" | 25 |
| 78205144099 | BRC51-E58 | 5/16" - 1/2" | 25 |
| 78205144102 | BRC51-E912 | 9/16" - 3/4" | 25 |
| 78205144094 | BRC52-E12 | 3/32" - 9/64" | 25 |
| 78205144097 | BRC52-E24 | 1/8" - 1/4" | 25 |
| 78205144100 | BRC52-E58 | 5/16" - 1/2" | 25 |
| 78205144103 | BRC52-E912 | 9/16" - 3/4" | 25 |
| 78205144095 | BRC53-E12 | 3/32" - 9/64" | 25 |
| 78205144098 | BRC53-E24 | 1/8" - 1/4" | 25 |
| 78205144101 | BRC53-E58 | 5/16" - 1/2" | 25 |
| 78205144104 | BRC53-E912 | 9/16" - 3/4" | 25 |

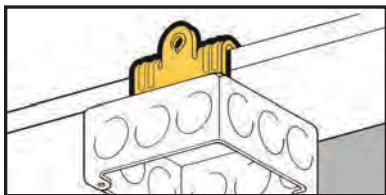


Static Load Capacity

50 Lbs.

Read safety/installation instruction sheets in packages before use.

Beams



- Suspend boxes or fixtures from beam flanges 1/8" to 3/4" thick.
- Provided with 1/4"-20 thread impression for quick and secure attachment.
- Simply installed with a hammer.

Universal Beam Fasteners

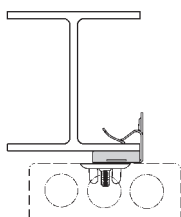
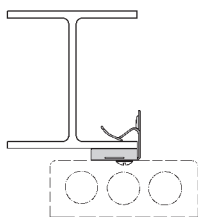


| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101119600 | BU-2-4 | 1/8" - 1/4" | 100 |
| 78101119605 | BU-5-8 | 5/16" - 1/2" | 100 |
| 78101119610 | BU-9-12 | 9/16" - 3/4" | 100 |

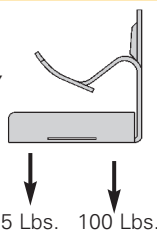


1/4\"-20 x 3/8\"
Staked Stud

| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|------------------|------------------|----------|
| 78101119615 | BU-2-4-S | 1/8" - 1/4" | 100 |
| 78101119620 | BU-5-8-S | 5/16" - 1/2" | 100 |
| 78101119625 | BU-9-12-S | 9/16" - 3/4" | 100 |

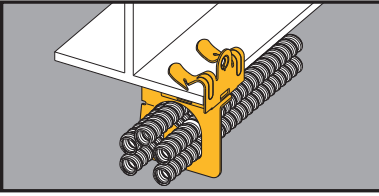


Static Load Capacity



Note: Indicated loads are static load capacity and should not be combined.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

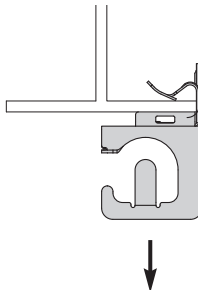


MC/AC Cable Carrier to Beam Fastener



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|-------------------|------------------|----------|
| 78205144066 | BRC51-U24 | 1/8" - 1/4" | 25 |
| 78205144069 | BRC51-U58 | 5/16" - 1/2" | 25 |
| 78205144072 | BRC51-U912 | 9/16" - 3/4" | 25 |
| 78205144067 | BRC52-U24 | 1/8" - 1/4" | 25 |
| 78205144070 | BRC52-U58 | 5/16" - 1/2" | 25 |
| 78205144073 | BRC52-U912 | 9/16" - 3/4" | 25 |
| 78205144068 | BRC53-U24 | 1/8" - 1/4" | 25 |
| 78205144071 | BRC53-U58 | 5/16" - 1/2" | 25 |
| 78205144074 | BRC53-U912 | 9/16" - 3/4" | 25 |

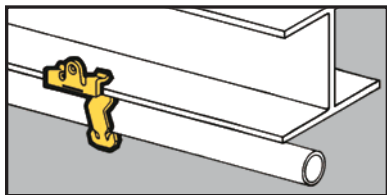


Static Load Capacity

75 Lbs.

Read safety/installation instruction sheets in packages before use.

Beams



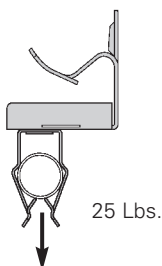
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

Push-Type Conduit To Beam Fasteners

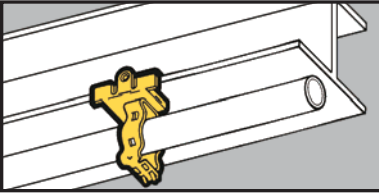


| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|-----------------------------|------------------|----------|
| 78101119310 | BP-8-U-2-4 | 1/2" EMT | 1/8" - 1/4" | 100 |
| 78101119315 | BP-8-U-5-8 | 1/2" EMT | 5/16" - 1/2" | 100 |
| 78101119320 | BP-8-U-9-12 | 1/2" EMT | 9/16" - 3/4" | 100 |
| 78101119405 | BP-12-U-2-4 | 3/4" EMT 1/2" IMC, Rigid | 1/8" - 1/4" | 100 |
| 78101119410 | BP-12-U-5-8 | 3/4" EMT 1/2" IMC, Rigid | 5/16" - 1/2" | 100 |
| 78101119415 | BP-12-U-9-12 | 3/4" EMT 1/2" IMC, Rigid | 9/16" - 3/4" | 100 |
| 78101119490 | BP-12-U-2-4 | 1" EMT 3/4" IMC, Rigid | 1/8" - 1/4" | 100 |
| 78101119495 | BP-12-U-5-8 | 1" EMT 3/4" IMC, Rigid | 5/16" - 1/2" | 100 |
| 78101119500 | BP-12-U-9-12 | 1" EMT 3/4" IMC, Rigid | 9/16" - 3/4" | 100 |

**Ultimate
Static Load
Capacity**



Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

Guide-Rite™ Conduit To Beam Fasteners

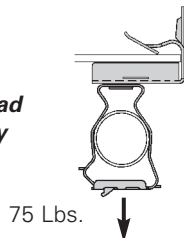


| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|-----------------------|--------------|------------------|----------|
| 78101118450 | BG-6-U-2-4 | 3/8" | 1/8" - 1/4" | 100 |
| 78101118455 | BG-6-U-5-8 | 3/8" | 5/16" - 1/2" | 100 |
| 78101118460 | BG-6-U-9-12 | 3/8" | 9/16" - 3/4" | 100 |
| 78101118525 | BG-8-12-U-2-4 | 1/2", 3/4" | 1/8" - 1/4" | 100 |
| 78101118530 | BG-8-12-U-5-8 | 1/2", 3/4" | 5/16" - 1/2" | 100 |
| 78101118535 | BG-8-12-U-9-12 | 1/2", 3/4" | 9/16" - 3/4" | 100 |
| 78101118625 | BG-16-U-2-4 | 1" | 1/8" - 1/4" | 100 |
| 78101118630 | BG-16-U-5-8 | 1" | 5/16" - 1/2" | 100 |
| 78101118635 | BG-16-U-9-12 | 1" | 9/16" - 3/4" | 100 |
| 78101118680 | BG-20-U-2-4 | 1 1/4" | 1/8" - 1/4" | 100 |
| 78101118685 | BG-20-U-5-8 | 1 1/4" | 5/16" - 1/2" | 100 |
| 78101118690 | BG-20-U-9-12 | 1 1/4" | 9/16" - 3/4" | 100 |
| 78101118720 | BG-24-U-2-4 | 1 1/2" | 1/8" - 1/4" | 50 |
| 78101118725 | BG-24-U-5-8 | 1 1/2" | 5/16" - 1/2" | 50 |
| 78101118730 | BG-24-U-9-12 | 1 1/2" | 9/16" - 3/4" | 50 |
| 78101118760 | BG-32-U-2-4 | 2" | 1/8" - 1/4" | 50 |
| 78101118765 | BG-32-U-5-8 | 2" | 5/16" - 1/2" | 50 |
| 78101118770 | BG-32-U-9-12 | 2" | 9/16" - 3/4" | 50 |

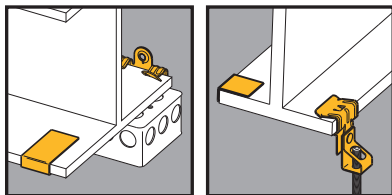
Patent #4958792

- * BG-6 will accept the following range $\varnothing.420$ - $\varnothing.675$:
14/2 thru 10/4 MC/AC cable
and 5/16 or 3/8 flexible conduit

**Static Load
Capacity**



Beams



- Anchor strap provides secure attachment to beam flanges.
- Suspends threaded rod from beam flanges.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

Beam Fasteners With Anchor Straps



Static Load Capacity

75 Lbs.



| UPC/Part Number | Catalog Number | Stud Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|----------------|------------------|----------|
| 78101104942 | BU-2-4-S-AS | 1/4"-20 x 3/8" | 1/8" - 1/4" | 50 |
| 78101104943 | BU-5-8-S-AS | 1/4"-20 x 3/8" | 5/16" - 1/2" | 50 |
| 78101104944 | BU-9-12-S-AS | 1/4"-20 x 3/8" | 9/16" - 3/4" | 50 |

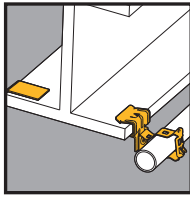
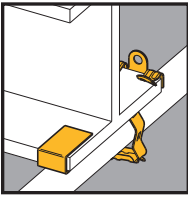


Static Load Capacity

160 Lbs.



| UPC/Part Number | Catalog Number | Threaded Rod Size | Flange Thickness | Box Qty. |
|-----------------|----------------------|-------------------|------------------|----------|
| 78101104948 | BH4-E-2-4-AS | 1/4"-20 | 1/8" - 1/4" | 50 |
| 78101104949 | BH4-E-5-8-AS | 1/4"-20 | 5/16" - 1/2" | 50 |
| 78101104950 | BH4-E-9-12-AS | 1/4"-20 | 9/16" - 3/4" | 50 |
| 78101104951 | BH6-E-2-4-AS | 3/8"-16 | 1/8" - 1/4" | 50 |
| 78101104952 | BH6-E-5-8-AS | 3/8"-16 | 5/16" - 1/2" | 50 |
| 78101104953 | BH6-E-9-12-AS | 3/8"-16 | 9/16" - 3/4" | 50 |



- Anchor strap provides secure attachment to beam flanges.
- Unique Guide-Rite™ Fastener provides for fast and easy installation.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

Conduit To Beam Fasteners With Anchor Straps



Static Load Capacity

75 Lbs.

| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|--------------------------|--------------|------------------|----------|
| 78101104966 | BG-8-12-U-2-4-AS | 1/2", 3/4" | 1/8" - 1/4" | 50 |
| 78101104967 | BG-8-12-U-5-8-AS | 1/2", 3/4" | 5/16" - 1/2" | 50 |
| 78101104968 | BG-8-12-U-9-12-AS | 1/2", 3/4" | 9/16" - 3/4" | 50 |
| 78101104969 | BG-16-U-2-4-AS | 1" | 1/8" - 1/4" | 50 |
| 78101104970 | BG-16-U-5-8-AS | 1" | 5/16" - 1/2" | 50 |
| 78101104971 | BG-16-U-9-12-AS | 1" | 9/16" - 3/4" | 50 |



Static Load Capacity

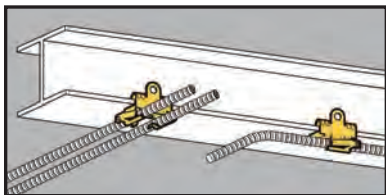
25 Lbs.



| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|--------------------------|--------------|------------------|----------|
| 78101104972 | BG-8-12-E-2-4-AS | 1/2", 3/4" | 1/8" - 1/4" | 50 |
| 78101104973 | BG-8-12-E-5-8-AS | 1/2", 3/4" | 5/16" - 1/2" | 50 |
| 78101104974 | BG-8-12-E-9-12-AS | 1/2", 3/4" | 9/16" - 3/4" | 50 |
| 78101104975 | BG-16-E-2-4-AS | 1" | 1/8" - 1/4" | 50 |
| 78101104976 | BG-16-E-5-8-AS | 1" | 5/16" - 1/2" | 50 |
| 78101104977 | BG-16-E-9-12-AS | 1" | 9/16" - 3/4" | 50 |

Read safety/installation instruction sheets in packages before use.

Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.

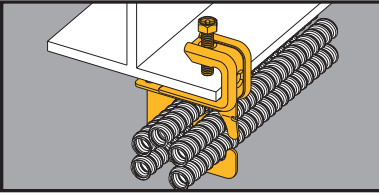
Cable To Beam Fasteners



| UPC/Part Number | Catalog Number | Description | Flange Thickness | Box Qty. |
|-----------------|-------------------|-------------|------------------|----------|
| 78101101197 | BX4-U-2-4 | Single Runs | 1/8" - 1/4" | 100 |
| 78101101198 | BX4-U-5-8 | Single Runs | 5/16" - 1/2" | 100 |
| 78101101199 | BX4-U-9-12 | Single Runs | 9/16" - 3/4" | 100 |



| UPC/Part Number | Catalog Number | Description | Flange Thickness | Box Qty. |
|-----------------|--------------------|-------------|------------------|----------|
| 78101101206 | BX4M-U-2-4 | Double Runs | 1/8" - 1/4" | 100 |
| 78101101207 | BX4M-U-5-8 | Double Runs | 5/16" - 1/2" | 100 |
| 78101101208 | BX4M-U-9-12 | Double Runs | 9/16" - 3/4" | 100 |



MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges from 1/8" thru 5/8" thick.
- Load Capacity: 50 lbs.



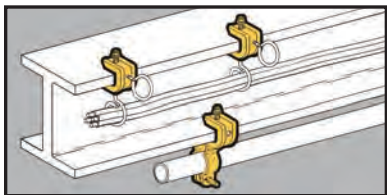
BRC5-1-C442



| UPC/Part Number | Catalog Number | Cable Diameter & Number of Runs | Box Qty. |
|-----------------|-------------------|---------------------------------|----------|
| 78205144087 | BRC51-C442 | .430" to .560" Up to 4 Runs | 25 |
| 78205144088 | BRC52-C442 | .430" to .560" Up to 9 Runs | 25 |
| 78205144089 | BRC53-C442 | .560" to .690" Up to 7 Runs | 25 |

Read safety/installation instruction sheets in packages before use.

Beams



- BC442 fits beam flanges 1/8" to 5/8". BC442-6 fits beam flanges up to 3/4".
- Finish: Zinc Plated
- Static Load Capacity: BC442 = 100 Lbs. BC442-6 = 200 Lbs.

Beam Fasteners

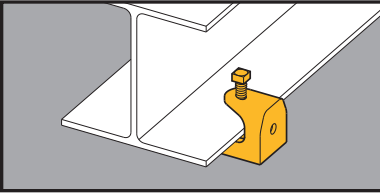


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101118278 | BC442 | Accepts 1/4"-20 Threaded Rod or 1/4"-20 Threaded Bridle Rings | 50 |
| 78101104283 | BC442-6 | Accepts 3/8"-16 Threaded Rod | 25 |



| UPC/Part Number | Catalog Number | Conduit Size | | Box Qty. |
|-----------------|--------------------|--------------|--------|----------|
| | | Rigid | EMT | |
| 78101119850 | BL1400-C442 | 1/2" | 1/2" | 50 |
| 78101119851 | BL1410-C442 | 3/4" | 3/4" | 50 |
| 78101119852 | BL1420-C442 | 1" | 1" | 50 |
| 78101119853 | BL1425-C442 | – | 1 1/4" | 50 |
| 78101119854 | BL1430-C442 | 1 1/4" | 1 1/2" | 50 |
| 78101119855 | BL1440-C442 | 1 1/2" | – | 25 |
| 78101119856 | BL1450-C442 | 2" | 2" | 25 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



- Can be used with 1/4"-20 and 3/8"-16 threaded rod or bridle rings.
- Fits beam flanges through 1/2" thick.
- Safety Factor of 5.
- Finish: Zinc-Plated

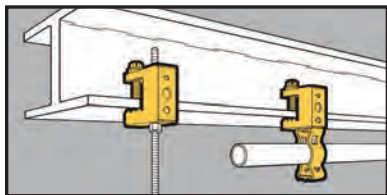
Beam Fasteners



| UPC/Part Number | Catalog Number | Rod Size | Static Load Cap. | Box Qty. |
|-----------------|------------------|----------|------------------|----------|
| 78101155333 | B444-1/4 | 1/4"-20 | 150 lbs. | 50 |
| 78101155333 | B444-5/16 | 5/16"-18 | 150 lbs. | 50 |
| 78101155333 | B444-3/8 | 3/8"-16 | 150 lbs. | 50 |

Read safety/installation instruction sheets in packages before use.

Beams



- Fits beam flanges thru 1/2" thick.
- Accepts "S" hooks, 1/4" and 3/8" threaded rod, 1/4"-20 or #10-24 threaded bridle rings.
- Supports conduit and electrical boxes.

Conduit To Beam Fasteners



| UPC/Part Number | Catalog Number | Flange Thickness | Static Load Cap. | Box Qty. |
|-----------------|----------------|------------------|------------------|----------|
| 78101118275 | BC1 | Thru 1/42 | 100 lbs. | 100 |

Guide-Rite™
Fastener



| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Static Load Cap. | Box Qty. |
|-----------------|-------------------|--------------------------|------------------|----------|
| 78101118490 | BG-8-12-C2 | 1/2", 3/4" | 100 lbs. | 100 |
| 78101118570 | BG-16-C2 | 1" | 100 lbs. | 100 |
| 78101118655 | BG-20-C2 | 1 1/4" | 100 lbs. | 100 |
| 78101118700 | BG-24-C2 | 1 1/2" | 100 lbs. | 100 |
| 78101118740 | BG-32-C2 | 2" | 100 lbs. | 100 |

Read safety/installation instruction sheets in packages before use.

Conduit To Beam Fasteners



Guide-Rite™
Fastener



| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Static Load Cap. | Box Qty. |
|-----------------|-------------------|--------------------------|------------------|----------|
| 78101118485 | BG-8-12-C1 | 1/2", 3/4" | 25 lbs. | 100 |
| 78101118565 | BG-16-C1 | 1" | 25 lbs. | 100 |
| 78101118650 | BG-20-C1 | 1 1/4" | 25 lbs. | 100 |
| 78101118695 | BG-24-C1 | 1 1/2" | 25 lbs. | 50 |
| 78101118735 | BG-32-C1 | 2" | 25 lbs. | 50 |



Push-Type

| UPC/Part Number | Catalog Number | Conduit Size | Ultimate Static Load Cap. | Box Qty. |
|-----------------|-----------------|-----------------------------|---------------------------|----------|
| 78101119260 | BP-8-C2 | 1/2" EMT | 25 lbs. | 100 |
| 78101119360 | BP-12-C2 | 3/4" EMT 1/2" IMC, Rigid | 25 lbs. | 100 |
| 78101119455 | BP-16-C2 | 1" EMT 3/4" IMC, Rigid | 25 lbs. | 100 |

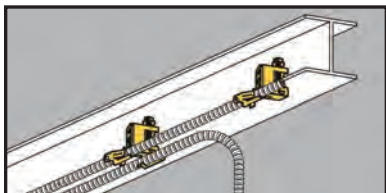


Push-Type

| UPC/Part Number | Catalog Number | Conduit Size | Ultimate Static Load Cap. | Box Qty. |
|-----------------|-----------------|-----------------------------|---------------------------|----------|
| 78101119255 | BP-8-C1 | 1/2" EMT | 25 lbs. | 100 |
| 78101119355 | BP-12-C1 | 3/4" EMT 1/2" IMC, Rigid | 25 lbs. | 100 |
| 78101119450 | BP-16-C1 | 1" EMT 3/4" IMC, Rigid | 25 lbs. | 100 |

Read safety/installation instruction sheets in packages before use.

Beams



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

Cable To Beam Fasteners



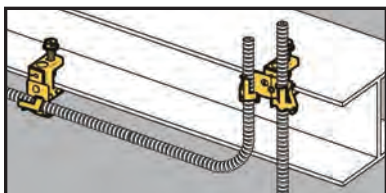
BX4-C2



BX4M-C2



| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101101190 | BX4-C2 | Single Runs | 100 |
| 78101101210 | BX4M-C2 | Double Runs | 100 |



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

Cable To Beam Fasteners



BX4-C1

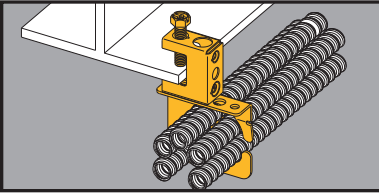


BX4M-C1



| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101101191 | BX4-C1 | Single Runs | 100 |
| 78101101209 | BX4M-C1 | Double Runs | 100 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges thru 1/2" thick.
- Load Capacity: 50 lbs.



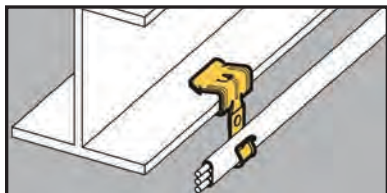
BRC5-x-C2



| UPC/Part Number | Catalog Number | Cable Diameter & Number of Runs | Box Qty. |
|-----------------|-----------------|---------------------------------|----------|
| 78205144090 | BRC51-C2 | .430" to .560" Up to 4 Runs | 25 |
| 78205144091 | BRC52-C2 | .430" to .560" Up to 9 Runs | 25 |
| 78205144092 | BRC53-C2 | .560" to .690" Up to 7 Runs | 25 |

Read safety/installation instruction sheets in packages before use.

Beams

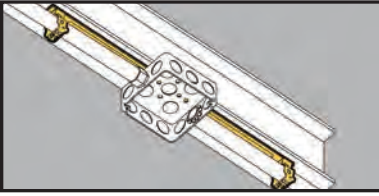


- Attaches Type NM cable to beam flanges 1/8" to 1/2" thick.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- Simply installed with a hammer.

Cable To Beam Fasteners



| UPC/Part Number | Catalog Number | Flange Thickness | Box Qty. |
|-----------------|--------------------|------------------|----------|
| 78101103550 | BRC3-E-2-4 | 1/8" to 1/4" | 100 |
| 78101103551 | BRC3-E-5-8 | 5/16" to 1/2" | 100 |
| 78101103552 | BRC3-E-9-12 | 9/16" to 3/4" | 100 |

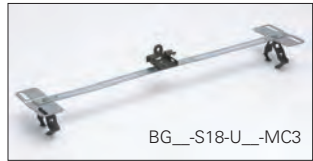


Guide-Rite™ Conduit & Box Support Fasteners



- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|----------------------|--------------|------------------|----------|
| 78101103583 | BG6-S18-U24 * | 3/8" | 1/8" to 1/4" | 25 |
| 78101103584 | BG6-S18-U58 * | 3/8" | 5/16" to 1/2" | 25 |
| 78101103579 | BG812-S18-U24 | 1/2", 3/4" | 1/8" to 1/4" | 25 |
| 78101103580 | BG812-S18-U58 | 1/2", 3/4" | 5/16" to 1/2" | 25 |
| 78101103581 | BG16-S18-U24 | 1" | 1/8" to 1/4" | 25 |
| 78101103582 | BG16-S18-U58 | 1" | 5/16" to 1/2" | 25 |

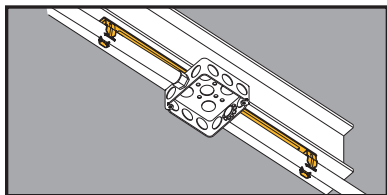
Patent #4958792

With Multiple Conduit Plate

| | | | | |
|-------------|--------------------------|------------|---------------|----|
| 78205152813 | BG6-S18-U24-MC3 * | 3/8" | 1/8" to 1/4" | 25 |
| 78205152814 | BG6-S18-U58-MC3 * | 3/8" | 5/16" to 1/2" | 25 |
| 78205152815 | BG812-S18-U24-MC3 | 1/2", 3/4" | 1/8" to 1/4" | 25 |
| 78205152816 | BG812-S18-U58-MC3 | 1/2", 3/4" | 5/16" to 1/2" | 25 |
| 78205152817 | BG16-S18-U24-MC3 | 1" | 1/8" to 1/4" | 25 |
| 78205152823 | BG16-S18-U58-MC3 | 1" | 5/16" to 1/2" | 25 |

- * BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

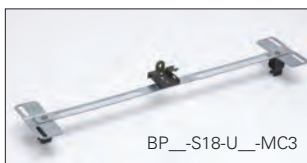
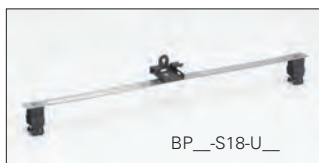
Beams



Push-Type Conduit & Box Support Fasteners

- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



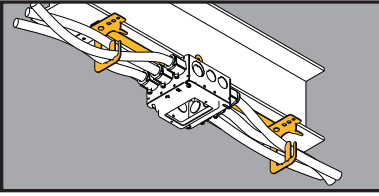
| UPC/Part Number | Catalog Number | Conduit Size EMT, IMC, Rigid | Flange Thickness | Box Qty. |
|-----------------|---------------------|------------------------------|------------------|----------|
| 78205123635 | BP8-S18-U24 | 3/8" | 1/8" to 1/4" | 25 |
| 78205123638 | BP8-S18-U58 | 3/8" | 5/16" to 1/2" | 25 |
| 78205123636 | BP12-S18-U24 | 1/2", 3/4" | 1/8" to 1/4" | 25 |
| 78205123639 | BP12-S18-U58 | 1/2", 3/4" | 5/16" to 1/2" | 25 |
| 78205123637 | BP16-S18-U24 | 1" | 1/8" to 1/4" | 25 |
| 78205123640 | BP16-S18-U58 | 1" | 5/16" to 1/2" | 25 |

Patent #4958792

With Multiple Conduit Plate

| | | | | |
|-------------|-------------------------|------------|---------------|----|
| 78205152824 | BP8-S18-U24-MC3 | 3/8" | 1/8" to 1/4" | 25 |
| 78205152825 | BP8-S18-U58-MC3 | 3/8" | 5/16" to 1/2" | 25 |
| 78205152827 | BP12-S18-U24-MC3 | 1/2", 3/4" | 1/8" to 1/4" | 25 |
| 78205152828 | BP12-S18-U58-MC3 | 1/2", 3/4" | 5/16" to 1/2" | 25 |
| 78205152825 | BP16-S18-U24-MC3 | 1" | 1/8" to 1/4" | 25 |
| 78205152964 | BP16-S18-U58-MC3 | 1" | 5/16" to 1/2" | 25 |

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Multi-Run Cable Carrier & Box Support Fastener

- Riveted assembly provides support for electrical box and cable run on either side of box.
- Cable retention tab is open for easy loading and contains cable when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.



BRC5_S18-U__

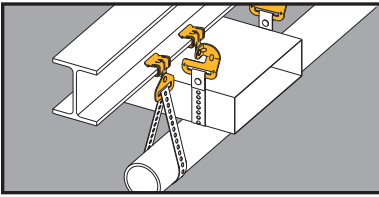
| UPC/Part Number | Catalog Number | Conduit Size Number of Runs | Flange Thickness | Box Qty. |
|-----------------|----------------------|--------------------------------|---------------------|-------------|
| 78205152829 | BRC51-S18-U24 | .430" - .560" Up to 4 Runs | 1/8" to 1/4" | 25 |
| 78205152830 | BRC51-S18-U58 | .560" - .690" Up to 7 Runs | 5/16" to 1/2" | 25 |
| 78205152834 | BRC53-S18-U24 | .430" - .560" Up to 4 Runs | 1/8" to 1/4" | 25 |
| 78205152835 | BRC53-S18-U58 | .560" - .690" Up to 7 Runs | 5/16" to 1/2" | 25 |

Read safety/installation instruction sheets in packages before use.

Hangers



Hangers



- Suspends straps thru 1 1/2" wide from beam flanges 1/8" to 3/4" thick.
- Suspends straps parallel or at right angles to beams.
- Simply installed with a hammer.
- Static Load Capacity: 200 Lbs.

Strap Hangers

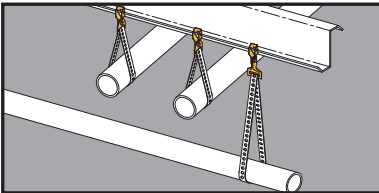


Parallel



Right Angle

| UPC/Part Number | Catalog Number | Description | Flange Thickness | Box Qty. |
|-----------------|------------------|-------------|------------------|----------|
| 78101104930 | BHE-1-2 | Parallel | 1/16" to 1/8" | 100 |
| 78101118870 | BH-2-4 | Parallel | 1/8" to 1/4" | 100 |
| 78101118880 | BH-5-8 | Parallel | 5/16" to 1/2" | 100 |
| 78101118890 | BH-9-12 | Parallel | 9/16" to 3/4" | 100 |
| 78101104115 | BH-1-2-R | Right Angle | 1/16" to 1/8" | 100 |
| 78101118875 | BH-2-4-R | Right Angle | 1/8" to 1/4" | 100 |
| 78101118885 | BH-5-8-R | Right Angle | 5/16" to 1/2" | 100 |
| 78101118895 | BH-9-12-R | Right Angle | 9/16" to 3/4" | 100 |



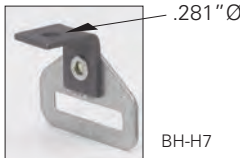
"Z" Purlin Hangers



BH-F12



BH-F12-R

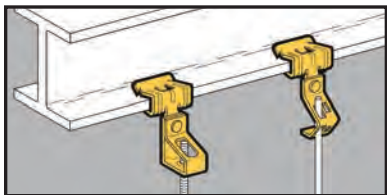


BH-H7

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|-------------|----------|
| 78101103385 | BH-F12 | Right Angle | 100 |
| 78101103384 | BH-F12-R | Parallel | 100 |
| 78101119922 | BH-H7 | Parallel | 100 |

Read safety/installation instruction sheets in packages before use.

Hangers



- Suspend wire or plain and threaded rod from beam flanges 1/8" to 3/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.

Rod To Beam Hangers



| UPC/Part Number | Catalog Number | Flange Thickness | Description | Box Qty. |
|-----------------|-------------------|------------------|---------------------------|----------|
| 78101118900 | BH1-E-2-4 | 1/8" to 1/4" | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118905 | BH1-E-5-8 | 5/16" - 1/2" | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118910 | BH1-E-9-12 | 9/16" - 3/4" | #8 Wire or 1/4" Plain Rod | 100 |

| UPC/Part Number | Catalog Number | Flange Thickness | Plain Rod Size | Box Qty. |
|-----------------|-------------------|------------------|----------------|----------|
| 78101118940 | BH2-E-2-4 | 1/8" to 1/4" | 3/8" | 100 |
| 78101118945 | BH2-E-5-8 | 5/16" - 1/2" | 3/8" | 100 |
| 78101118950 | BH2-E-9-12 | 9/16" - 3/4" | 3/8" | 100 |

Rod To Beam Hangers



With Thread Impression



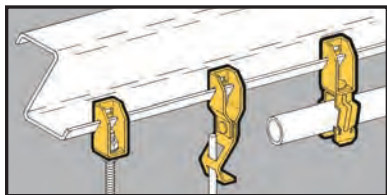
| UPC/Part Number | Catalog Number | Flange Thickness | Threaded Rod Size | Box Qty. |
|-----------------|-------------------|------------------|-------------------|----------|
| 78101118980 | BH4-E-2-4 | 1/8" to 1/4" | 1/4" | 100 |
| 78101118985 | BH4-E-5-8 | 5/16" - 1/2" | 1/4" | 100 |
| 78101118990 | BH4-E-9-12 | 9/16" - 3/4" | 1/4" | 100 |
| 78101119060 | BH6-E-2-4 | 1/8" to 1/4" | 3/8" | 100 |
| 78101119065 | BH6-E-5-8 | 5/16" - 1/2" | 3/8" | 100 |
| 78101119070 | BH6-E-9-12 | 9/16" - 3/4" | 3/8" | 100 |

Note: BH4 and BH6 have thread impressions.

| UPC/Part Number | Catalog Number | Flange Thickness | Threaded Rod Size | Box Qty. |
|-----------------|---------------------|------------------|-------------------|----------|
| 78101119020 | BH5-E-2-4 * | 1/8" to 1/4" | 1/4" to 3/8" | 100 |
| 78101119025 | BH5-E-5-8 * | 5/16" - 1/2" | 1/4" to 3/8" | 100 |
| 78101119030 | BH5-E-9-12 * | 9/16" - 3/4" | 1/4" to 3/8" | 100 |

*Nuts Required.

Hangers



"Z" Purlin Hangers

- Compensates for angle of purlin lip.
- Allows for parallel conduit runs or vertical support drops.
- Riveted fasteners will rotate 360°.
- Maximum Purlin thickness of $\frac{3}{32}$ ".

BF13



BF12



| UPC/Part Number | Catalog Number | Description | Static Load Cap. Lbs. | Box Qty. |
|-----------------|----------------|---------------------------|-----------------------|----------|
| 78101118345 | BF13 | With $\frac{1}{4}$ " Hole | 100 | 100 |
| 78101118340 | BF12 | For "S" Hooks | 100 | 100 |



Guide-Rite™
Fastener
BG Series



Push-Type
BP Series

| UPC/Part Number | Catalog Number | Conduit Size EMT & Rigid | Static Load Cap. Lbs. | Box Qty. |
|-----------------|--------------------|---|-----------------------|----------|
| 78101118445 | BG-6-F13 * | $\frac{3}{8}$ " | 100 | 100 |
| 78101118520 | BG-8-12-F13 | $\frac{1}{2}$ ", $\frac{3}{4}$ " | 100 | 100 |
| 78101118590 | BG-16-F13 | 1" | 100 | 100 |
| 78101118675 | BG-20-F13 | $1\frac{1}{4}$ " | 100 | 100 |
| 78101119290 | BP-8-F13 | $\frac{1}{2}$ " EMT | 25 | 100 |
| 78101119390 | BP-12-F13 | $\frac{3}{4}$ " EMT $\frac{1}{2}$ " IMC, Rigid | 25 | 100 |
| 78101119480 | BP-16-F13 | 1" EMT $\frac{3}{4}$ " IMC, Rigid | 25 | 50 |

* BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
 $1\frac{1}{2}$ thru $10\frac{1}{4}$ MC/AC cable and $\frac{5}{16}$ or $\frac{3}{8}$ flexible conduit

Read safety/installation instruction sheets in packages before use.

Universal Beam Fasteners



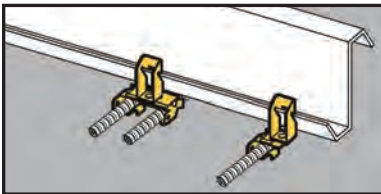
| UPC/Part Number | Catalog Number | Description | Static Load Cap. | Box Qty. |
|-----------------|----------------|---------------------------|------------------|----------|
| 78101118920 | BH1-F12 | #8 Wire or 1/4" Plain Rod | 100 Lbs. | 100 |
| 78101118960 | BH2-F12 | 3/8" Plain Rod | 100 Lbs. | 100 |



| UPC/Part Number | Catalog Number | Threaded Rod Size | Static Load Cap. | Box Qty. |
|-----------------|------------------|-------------------|------------------|----------|
| 78101119000 | BH4-F12 | 1/4" | 100 Lbs. | 100 |
| 78101119080 | BH6-F12 | 3/8" | 100 Lbs. | 100 |
| 78101119040 | BH5-F12 * | 1/4" & 3/8" | 100 Lbs. | 100 |

*Nuts Required.

Note: BH4 and BH6 have thread impressions.



Cable To "Z" Purlin Flange Hangers

- Compensates for angle of purlin lip.
- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to "Z" Purlins up to 3/32" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



BX4-F13



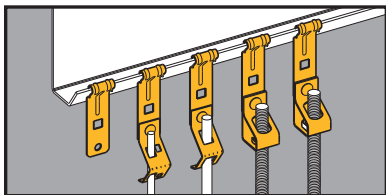
BX4M-F13



| UPC/Part Number | Catalog Number | Description | Flange Thickness | Box Qty. |
|-----------------|-----------------|-------------|------------------|----------|
| 78101101188 | BX4-F13 | Single Runs | Thru 3/32" | 100 |
| 78101101204 | BX4M-F13 | Double Runs | Thru 3/32" | 100 |

Read safety/installation instruction sheets in packages before use.

Hangers



"Z" Purlin Flange Hangers

- Suspend wire, or plain and threaded rod from "Z" Purlins.
- Fits "Z" Purlins 1/16" to 1/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101104271 | BF4 | For "S" Hooks, Bolting Straps and Wrap Wire | 100 |

"Z" Purlin Flange Hangers



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101104274 | BH1-F4 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101104276 | BH2-F4 | 3/8" Plain Rod | 100 |

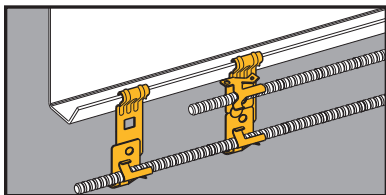


| UPC/Part Number | Catalog Number | Threaded Rod Size | Box Qty. |
|-----------------|-----------------|-------------------|----------|
| 78101104286 | BH4-F4 | 1/4" | 100 |
| 78101104280 | BH6-F4 | 3/8" | 100 |
| 78101104278 | BH5-F4 * | 1/4" - 3/8" | 100 |

* Nuts required.

Note: BH4 & BH6 have thread impressions.

Hangers



- Attaches MC, AC, sizes 14/2 thru 10/3 or 3/8" FMC to "Z" Purlins.
- Fits "Z" Purlin flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.

Cable To "Z" Purlin Flange Hangers



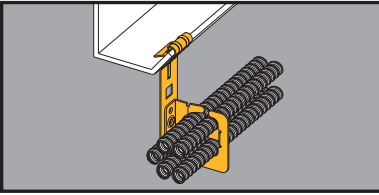
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104931 | BX4-F4 | Single Runs | 100 |

These products are designed for positioning only. No load rating.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104932 | BX4M-F4 | Double Runs | 100 |

These products are designed for positioning only. No load rating.



MC/AC Cable Carrier to 'Z' Purlin Flange Hanger

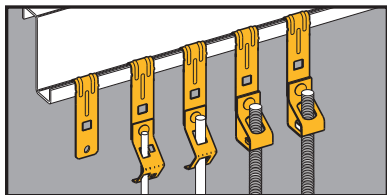
- Secures and supports multiple runs of MC/AC cable to 'Z' purlins.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.



| UPC/Part Number | Catalog Number | Cable Diameter & Number of Runs | Box Qty. |
|-----------------|-----------------|---------------------------------|----------|
| 78205144084 | BRC51-F4 | .430" to .560" Up to 4 Runs | 25 |
| 78205144085 | BRC52-F4 | .430" to .560" Up to 9 Runs | 25 |
| 78205144086 | BRC53-F4 | .560" to .690" Up to 7 Runs | 25 |

Read safety/installation instruction sheets in packages before use.

Hangers



- Suspend wire, or plain and threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

Vertical Flange Hangers



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101104270 | BF3 | For "S" Hooks, Bolting Straps and Wrap Wire | 100 |

Vertical Flange Hangers



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101104273 | BH1-F3 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101104275 | BH2-F3 | 3/8" Plain Rod | 100 |



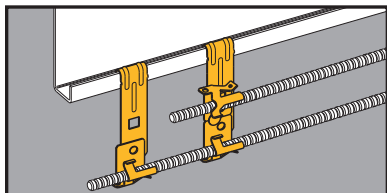
4 1/4"
Overall Height

| UPC/Part Number | Catalog Number | Threaded Rod Size | Box Qty. |
|-----------------|-----------------|-------------------|----------|
| 78101104285 | BH4-F3 | 1/4" | 100 |
| 78101104279 | BH6-F3 | 3/8" | 100 |
| 78101104933 | BH5-F3 * | 1/4", 3/8" | 100 |

* Nuts required.

Read safety/installation instruction sheets in packages before use.

Hangers



Cable To Vertical Flange Hangers

- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" flexible conduit FMC to vertical flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



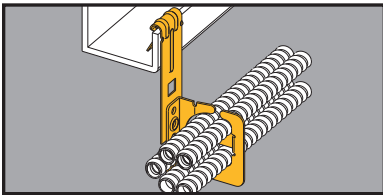
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104281 | BX4-F3 | Single Runs | 100 |

This product is designed for positioning only. No load rating.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78101104282 | BX4M-F3 | Double Runs | 100 |

This product is designed for positioning only. No load rating.



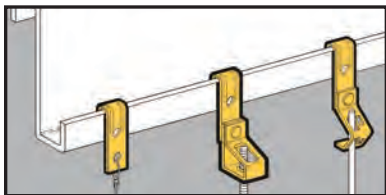
MC/AC Cable Carrier To Vertical Flange Hanger

- Secures and supports multiple runs of MC/AC cable to vertical flanges.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.



| UPC/Part Number | Catalog Number | Cable Diameter & Number of Runs | Box Qty. |
|-----------------|-----------------|---------------------------------|----------|
| 78205144081 | BRC51-F3 | .430" to .560" Up to 4 Runs | 25 |
| 78205144084 | BRC52-F3 | .430" to .560" Up to 9 Runs | 25 |
| 78205144083 | BRC53-F3 | .560" to .690" Up to 7 Runs | 25 |

Hangers



- Suspend wire, or plain or threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

Vertical Flange Hangers



| UPC/Part Number | Catalog Number | Flange Thickness | Description | Box Qty. |
|-----------------|----------------|------------------|---|----------|
| 78101118310 | BF1 | 1/16" - 5/32" | For "S" Hooks, Bolting Straps and Wrap Wire | 100 |
| 78101118315 | BF2 | 5/32" - 1/4" | For "S" Hooks, Bolting Straps and Wrap Wire | 100 |



| UPC/Part Number | Catalog Number | Flange Thickness | Description | Box Qty. |
|-----------------|----------------|------------------|---------------------------|----------|
| 78101118915 | BH1-F1 | 1/16" - 5/32" | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118925 | BH1-F2 | 5/32" - 1/4" | #8 Wire or 1/4" Plain Rod | 100 |

Vertical Flange Hangers



| UPC/Part Number | Catalog Number | Flange Thickness | Plain Rod Size | Box Qty. |
|-----------------|----------------|------------------|----------------|----------|
| 78101118955 | BH2-F1 | 1/16" - 5/32" | 3/8" | 100 |
| 78101118965 | BH2-F2 | 5/32" - 1/4" | 3/8" | 100 |



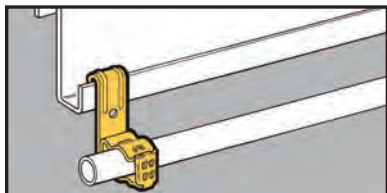
| UPC/Part Number | Catalog Number | Flange Thickness | Threaded Rod Size | Box Qty. |
|-------------------------------|----------------|------------------|-------------------|----------|
| With Thread Impression | | | | |
| 78101118995 | BH4-F1 | 1/16" - 5/32" | 1/4" | 100 |
| 78101119075 | BH6-F1 | 1/16" - 5/32" | 3/8" | 100 |
| 78101119005 | BH4-F2 | 5/32" - 1/4" | 1/4" | 100 |
| 78101119085 | BH6-F2 | 5/32" - 1/4" | 3/8" | 100 |

With Clearance Hole

| | | | | |
|-------------|-----------------|---------------|------------|-----|
| 78101118995 | BH5-F1 * | 1/16" - 5/32" | 1/4", 3/8" | 100 |
| 78101119075 | BH5-F2 * | 5/32" - 1/4" | 1/4", 3/8" | 100 |

* Nuts required.

Hangers



- Supports 3/8" to 1" conduit from vertical flanges 1/16" to 1/4" thick.
- Patented Guide-Rite™ feature ensures fastener will close and lock every time.
- Simply installed with a hammer and pliers.
- Static Load Capacity: 25 Lbs.

Conduit To Vertical Flange Hangers



Guide-Rite™
Fastener



| UPC/Part Number | Catalog Number | Conduit Size | Flange Thickness | Box Qty. |
|-----------------|-------------------|--------------|------------------|----------|
| 78101119957 | BG-6-F1 * | 3/8" | 1/16" - 5/32" | 100 |
| 78101119960 | BG-6-F2 * | 3/8" | 5/32" - 1/4" | 100 |
| 78101119958 | BG-8-12-F1 | 1/2" & 3/8" | 1/16" - 5/32" | 100 |
| 78101119961 | BG-8-12-F2 | 1/2" & 3/8" | 5/32" - 1/4" | 100 |
| 78101119958 | BG-16-F1 | 1" | 1/16" - 5/32" | 100 |
| 78101119961 | BG-16-F2 | 1" | 5/32" - 1/4" | 100 |

Patent #4958792

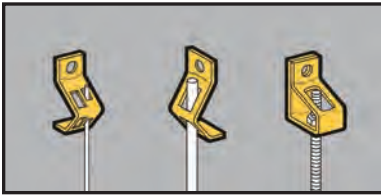
* BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



| UPC/Part Number | Catalog Number | Wire Size | Flange Thickness | Box Qty. |
|-----------------|----------------|----------------------------|------------------|----------|
| 78101103556 | BRC3-F1 | 14/2 & 12/2 With Ground | 1/16" - 5/32" | 100 |
| 78101103557 | BRC3-F2 | 14/2 & 12/2 With Ground | 5/32" - 1/4" | 100 |

Note: These products are designed for positioning only. No load rating.

Hangers

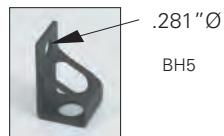
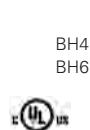


- BH1, BH2: Supports wire or plain rod.
- BH7, BH8: For wire or chain drop from concrete or wood.
- BH4, BH5, BH6 supports 1/4" or 3/8" threaded rod.
- Static Load Capacity: 160 Lbs.

Components



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101118800 | BH1 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118805 | BH2 | For 3/8" Plain Rod | 100 |



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101118815 | BH4 | For 1/4" Threaded Rod | 100 |
| 78101118825 | BH6 | For 3/8" Threaded Rod | 100 |
| 78101118820 | BH5 * | For 1/4" & 3/8" Threaded Rod | 100 |

* Nuts required.

Note: BH4 & BH6 have thread impressions.

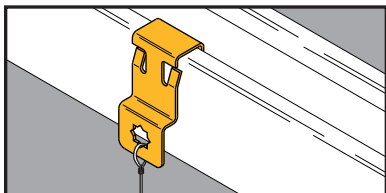


BH8

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101118830 | BH7 | Angle Bracket With .281"Ø Holes | 100 |
| 78101118835 | BH7-6 | Angle Bracket With .281"Ø & .406"Ø Holes | 100 |
| 78101118840 | BH8 | Offset Bracket With .281"Ø Holes | 100 |
| 78101118845 | BH8-6 | Offset Bracket With .281"Ø & .406"Ø Holes | 100 |

Read safety/installation instruction sheets in packages before use.

Hangers



- The BSC4 Series provides a simple, snap-on attachment to strut, eliminating the need for tools and/or drilling during installation.

Strut Fasteners



- Ideal for retrofit and add-on applications.
- BSC4 provides a 1/4" mounting hole along the side of a standard strut member.
- Riveted assemblies allow for easy attachment of conduit, cable and rod.

| UPC/Part Number | Catalog Number | Description | Load Capacity | Box Qty. |
|-----------------|----------------|-------------|---------------|----------|
| 78205146573 | BSC4 | Strut Clip | 60 lbs. | 100 |



| UPC/Part Number | Catalog Number | Rod Size | Load Capacity | Box Qty. |
|-----------------|----------------|----------|---------------|----------|
| 78205146581 | BH4-SC4 | 1/4"-20 | 60 lbs. | 100 |
| 78205146582 | BH6-SC4 | 3/8"-16 | 60 lbs. | 100 |

Hangers



BG-SC4



BP-SC4



BL14-SC4

| UPC/Part Number | Catalog Number | Conduit Size | Load Capacity | Box Qty. |
|-----------------|-------------------|--------------|---------------|----------|
| 78205146577 | BG6-SC4 | MC/AC & 3/8" | 25 lbs. | 100 |
| 78205146578 | BG812-SC4 | 1/2" & 3/4" | 25 lbs. | 100 |
| 78205146579 | BP8-SC4 | 1/2" | 15 lbs. | 100 |
| 78205146580 | BP12-SC4 | 3/4" | 15 lbs. | 100 |
| 78205146588 | BL1400-SC4 | 1/2" | 60 lbs. | 100 |
| 78205146589 | BL1410-SC4 | 3/4" | 60 lbs. | 100 |
| 78205146590 | BL1420-SC4 | 1" | 60 lbs. | 100 |



BX4M-SC4

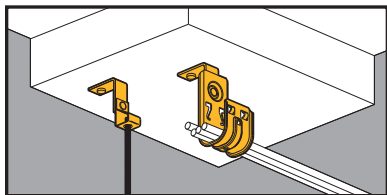


BRC5-SC4

| UPC/Part Number | Catalog Number | Cable Size Runs | Load Capacity | Box Qty. |
|-----------------|------------------|--------------------------------|---------------|----------|
| 78205146584 | BX4M-SC4 | 14/2 - 10/3 up to 2 runs | – | 100 |
| 78205146585 | BRC51-SC4 | .430" to .560" up to 4 runs | 50 lbs. | 100 |
| 78205146586 | BRC52-SC4 | .430" to .560" up to 9 runs | 50 lbs. | 100 |
| 78205146587 | BRC53-SC4 | .560" to .690" up to 7 runs | 50 lbs. | 100 |

Read safety/installation instruction sheets in packages before use.

Hangers



Drive Pin Fasteners



BPNA



BCH21-PNA
BCH32-PNA



BH-PNA



BH1-PNA
BH2-PNA

- Special support bracket allows clearance for powder actuated tools.
- Exclusive 1¹/₄" drive pin now pre-installed.
- Pins rated for concrete up to 4000 psi.
- Static Load Capacity: 30 Lbs. unless specified. Limited by fastener assembly. Pin rating must be considered before installation.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|------------------|---|----------|
| 78205125583 | BPNA | Angle Bracket | 100 |
| 78205128090 | BCH12-PNA | 3/4" Cable Hook | 100 |
| 78205125584 | BCH21-PNA | 1 ⁵ / ₁₆ " Cable Hook | 50 |
| 78205125586 | BCH32-PNA | 2" Cable Hook | 50 |
| 78205125588 | BCH64-PNA | 4" Cable Hook | 25 |
| 78205125611 | BH-PNA | Strap Hanger | 100 |
| 78205125593 | BH1-PNA | #8 Wire or 1/4" Plain Rod | 100 |
| 78205125596 | BH2-PNA | 3/8" Plain Rod | 100 |

Read safety/installation instruction sheets in packages before use.

Drive Pin Fasteners



BH_PNA



BG_PNA



BP_PNA



BL14_PNA



BX4_PNA



BX4M_PNA

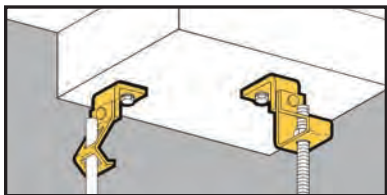
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|--------------------|---------------------------------|----------|
| 78205125604 | BH4-PNA * | 1/4" Threaded Rod | 100 |
| 78205125606 | BH6-PNA * | 3/8" Threaded Rod Cable Hook | 100 |
| 78205125605 | BH5-PNA ** | 1/4" or 3/8" Threaded Rod | 100 |
| 78205125613 | BG6-PNA *** | 3/8" Conduit | 100 |
| 78205125615 | BG8-12-PNA | 1/2" & 3/4" Conduit | 100 |
| 78205125616 | BG16-PNA | 1" Conduit | 100 |
| 78205125623 | BP8-PNA | 1/2" EMT | 100 |
| 78205125624 | BP12-PNA | 3/4" EMT | 100 |
| 78205125630 | BP16-PNA | 1" EMT | 100 |
| 78205125620 | BL1400-PNA | 1/2" Conduit | 100 |
| 78205125621 | BL1410-PNA | 3/4" Conduit | 100 |
| 78205125622 | BL1420-PNA | 1" Conduit | 100 |
| 78205125590 | BX4-PNA | Single Run MC, AC or FMC | 100 |
| 78205125591 | BX4M-PNA | Double Run MC, AC or FMC | 100 |

* With threaded impressions. ** Nuts required.

*** BG-6 will accept the following range $\varnothing.420 - \varnothing.675$:

14/2 thru 10/4 MC/AC cable and $5/16$ or $3/8$ flexible conduit

Hangers



Angle Bracket Fasteners

- Suspend plain or threaded rod and drop wire from ceilings, walls, concrete beams, joists and laminated wood beams.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.



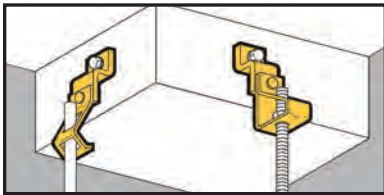
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101118930 | BH1-H7 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118975 | BH2-H7 | For 3/8" Plain Rod | 100 |



| UPC/Part Number | Catalog Number | Threaded Rod Size | Box Qty. |
|-----------------|-----------------|--------------------|----------|
| 78101119010 | BH4-H7 | 1/4"-20 | 100 |
| 78101119090 | BH6-H7 | 3/8"-16 | 100 |
| 78101119050 | BH5-H7 * | 1/4"-20 or 3/8"-16 | 100 |

* Nuts required.

Note: BH4 & BH6 have thread impressions.



- Suspend plain or threaded rod and drop wire from ceilings, walls, beams, and joists.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.

Offset Bracket Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78101118935 | BH1-H8 | #8 Wire or 1/4" Plain Rod | 100 |
| 78101118975 | BH2-H8 | 3/8" Plain Rod | 100 |

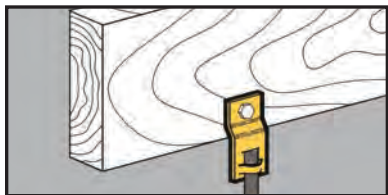


| UPC/Part Number | Catalog Number | Threaded Rod Size | Box Qty. |
|-----------------|-----------------|--------------------|----------|
| 78101119015 | BH4-H8 | 1/4"-20 | 100 |
| 78101119095 | BH6-H8 | 3/8"-16 | 100 |
| 78101119055 | BH5-H8 * | 1/4"-20 or 3/8"-16 | 100 |

* Nuts required.

Note: BH4 & BH6 have thread impressions.

Hangers



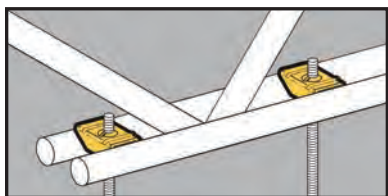
- Suspend 3/8" threaded rod from ceilings, walls, beams, and joists.
- Finish: Zinc Plated
- Static Load Capacity: 610 Lbs.

Threaded Rod Hangers

.406" Ø



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------------|----------|
| 78101101661 | B3223-3/8 | Offset Eye Socket | 100 |



- Allows centering on all open web joists with round bottom chords.
- Static Load Capacity:
BH11 = 200 Lbs.
BH12 = 100 Lbs.

Wedge Hangers



BH11

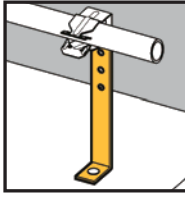
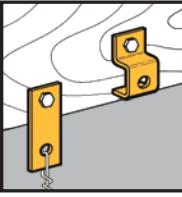


BH12



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101118860 | BH11 | With 3/8" Clearance Hole | 100 |
| 78101118865 | BH12 | With 1/4"-20 Thread Impression | 100 |

Hangers



- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



BD4



BA28B

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|----------------|----------|
| 78101101686 | BD2 | Flat Bracket | 100 |
| 78101118280 | BD4 | Offset Bracket | 100 |
| 78101101449 | BA28B | Angle Bracket | 100 |

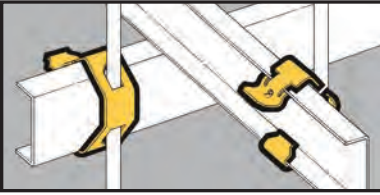
Read safety/installation instruction sheets in packages before use.

Lathers Channel

Lathers Channel



Lathers Channel



Rod & Wire Fasteners

- For fastening standard lathers channels to wires and plain rods.
- Fits 1/2" through 5/8" channel flange widths.
- Accepted for use by the City of New York Department of Buildings. MEA 383-91-M.
- Static Load Capacity: 160 Lbs.



BL-24-2



Side Mounts

BL-24-4

| UPC/Part Number | Catalog Number | Channel Size | Rod/Wire Size | Box Qty. |
|-----------------|----------------|--------------|---------------|----------|
| 78101119882 | BL-24-2 | 1 1/2" | #8 Wire | 100 |
| 78101119883 | BL-24-4 | 1 1/2" | 1/4" | 100 |
| 78101119885 | BL-32-4 | 2" | 1/4" | 100 |



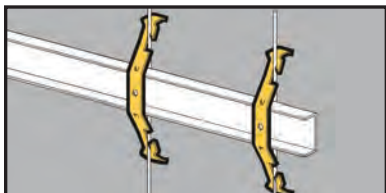
Center Mount



| UPC/Part Number | Catalog Number | Channel Size | Rod/Wire Size | Box Qty. |
|-----------------|-----------------|--------------|---------------|----------|
| 78101119884 | BL-24-4C | 1 1/2" | 1/4" Rod | 100 |

Read safety/installation instruction sheets in packages before use.

Lathers Channel

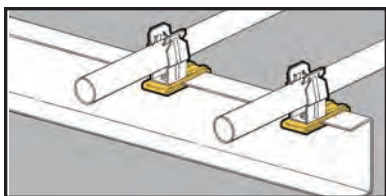


- For fastening standard 1 1/2" lathers channel to wires and plain rods.
- Wire size: #8 and #9.
- Rod size: 3/16" and 1/4".
- Fits 9/16" thru 5/8" channel flange widths.
- Static Load Capacity: 100 Lbs.

Rod & Wire Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------|----------|
| 78101119880 | BL1 | Channel to Rod & Wire | 100 |



- Serves as a mounting base for conduit fasteners or electrical boxes.
- Attaches to either flange of lathers channel with 1/4"-20 screw (furnished).
- Fits channel flange widths up to 5/8".

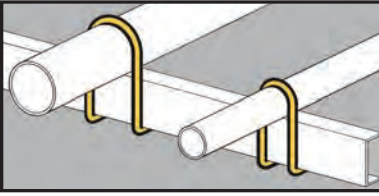
Flange Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|----------------------------|----------|
| 78101119881 | BL2 | Flange Fastener with Screw | 100 |

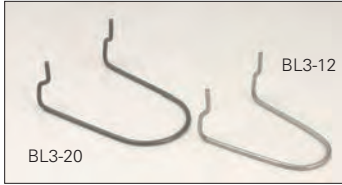
Note: This product is designed for positioning only. No load rating.

Lathers Channel



- Fastens EMT to 1 1/2" lathers channel.
- Static Load Capacity: 50 Lbs.
- Finish: Zinc Plated

Conduit Fasteners



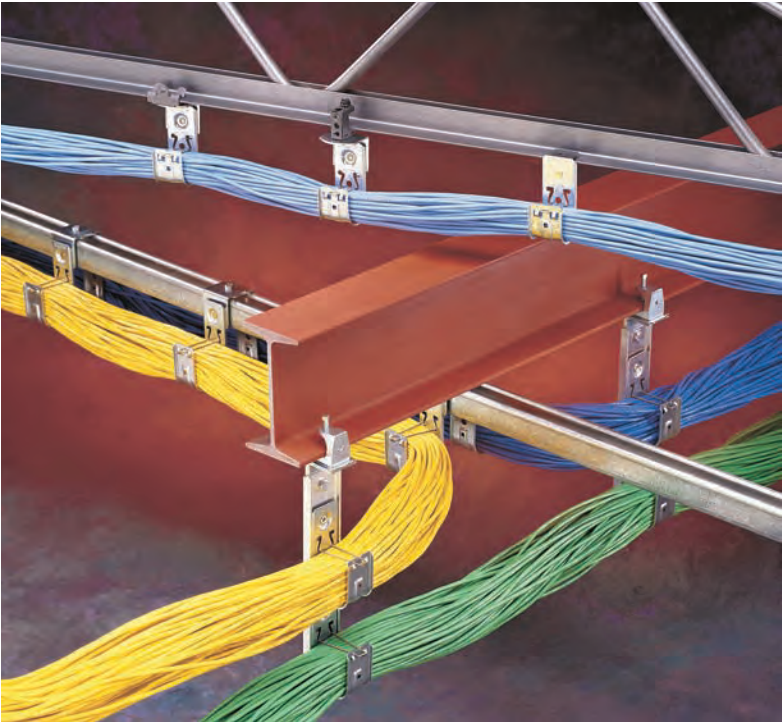
| UPC/Part Number | Catalog Number | EMT Conduit Size | Box Qty. |
|-----------------|----------------|------------------|----------|
| 78101119902 | BL3-8 | 1/2" | 100 |
| 78101119903 | BL3-12 | 3/4" | 100 |
| 78101119904 | BL3-16 | 1" | 100 |
| 78101119905 | BL3-20 | 1 1/4" | 100 |

Lathers Channel

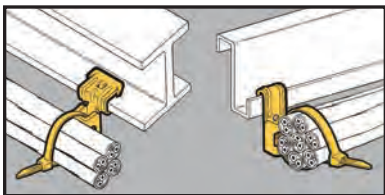
Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage

Communication & Low Voltage



Communication & Low Voltage

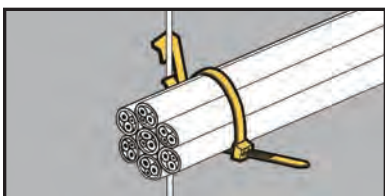


- Supports cable ties up to $\frac{9}{32}$ " wide from flanges $\frac{1}{16}$ " to $\frac{3}{4}$ " thick.
- 8" cable tie included.
- Simply installed with a hammer.

Cable Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|--------------------|--------------------------------------|----------|
| 78101119970 | BE-2-4-CT2 | $\frac{1}{8}$ " to $\frac{1}{4}$ " | 100 |
| 78101119971 | BE-5-8-CT2 | $\frac{5}{16}$ " to $\frac{1}{2}$ " | 100 |
| 78101119972 | BE-9-12-CT2 | $\frac{9}{16}$ " to $\frac{3}{4}$ " | 100 |
| 78101119968 | BF1-CT2 | $\frac{1}{16}$ " to $\frac{5}{32}$ " | 100 |
| 78101119969 | BF2-CT2 | $\frac{5}{32}$ " to $\frac{1}{4}$ " | 100 |



- Supports cable ties up to $\frac{9}{32}$ " wide from drop wires.
- 8" cable tie included.

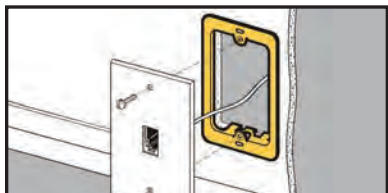
Cable Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101102866 | BW2-CT2 | #12 wire thru $\frac{1}{4}$ " plain or threaded rod | 100 |
| 78101195603 | BW6-CT2 | $\frac{3}{8}$ " plain or threaded rod | 100 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Accepts Decora®* style cover plates.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

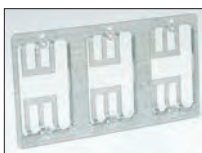
Cover Plate Mounting Brackets



BB10



BB10-2



BB10-3



BB10-4



BB20

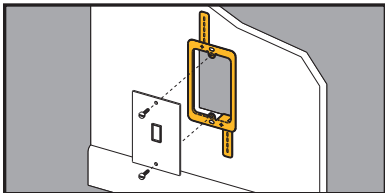
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------------|----------|
| 78101118150 | BB10 | Single Gang Bracket | 50 |
| 78101118152 | BB10-2 | Mounts Two (2) Single Plates | 10 |
| 78101119878 | BB10-3 | Mounts Three (3) Single Plates | 10 |
| 78101119879 | BB10-4 | Mounts Four (4) Single Plates | 10 |
| 78101118130 | BB20 | Double Gang Bracket | 10 |

Patent # Re.33305

* Decora® is a registered trademark of Leviton Corporation.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Communication & Low Voltage



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

Cover Plate Mounting Bracket

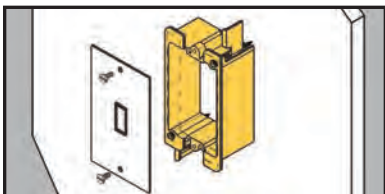


BB10L



BB20L

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------|----------|
| 78101190895 | BB10L | Single Gang Bracket | 50 |
| 78101190896 | BB20L | Double Gang Bracket | 50 |



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Design eliminates sharp edges from bracket.
- Maximum wall thickness: 3/4"

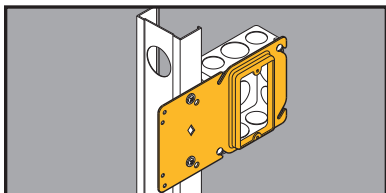
Plastic Cover Plate Mounting Bracket



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------|----------|
| 78205139235 | BB10P | Single Gang Bracket | 50 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage



- Uni-Mount offers a secure box support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Replaces electrical boxes in Class 2 low voltage installations.
- Guide tabs ensure consistent alignment on studs.
- Finish: Pre-galvanized

Uni-Mount Box Support/Cover Plate Mounting Brackets



Single Gang

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205122768 | BB40-08 | 1/2" Raise | 50 |
| 78205122771 | BB40-10 | 5/8" Raise | 50 |
| 78205122772 | BB40-12 | 3/4" Raise | 50 |

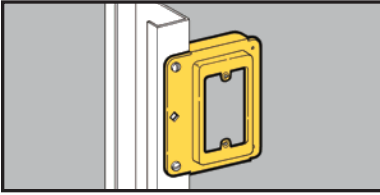


Double Gang

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205122773 | BB45-08 | 1/2" Raise | 50 |
| 78205122774 | BB45-10 | 5/8" Raise | 50 |
| 78205122775 | BB45-12 | 3/4" Raise | 50 |

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage

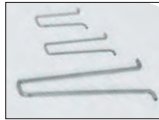
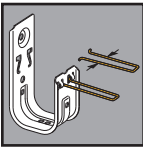


Cover Plate Mounting Bracket



- Locates communication outlets before drywall is installed.
- Replaces electrical box in Class 2 low voltage installations.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------------------|----------|
| 78101119873 | BB15 | Single Gang Stud Bracket | 25 |

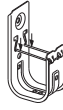


Replacement Cable Retainer Clips

- Cable retainer clips are included with all cable hook purchases.
- Provides secure containment of cables and offers quick open/close feature to add or remove cables.
- Finish: Pre-galvanized



Retainer in open position



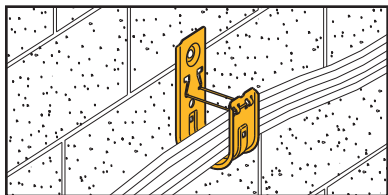
Push retainer down to lock

| UPC/Part Number | Catalog Number | Cable Retainer For Hook Size | Box Qty. |
|-----------------|----------------|------------------------------|----------|
| 78101104847 | BCHR21 | 1/2" Raise | 50 |
| 78101104848 | BCHR32 | 5/8" Raise | 50 |
| 78101104849 | BCHR64 | 3/4" Raise | 50 |

Patent #5961081

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

Communication & Low Voltage



- Supports Cat. 5/5e/6/6A fiber optic, innerduct and low voltage cabling requirements.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-Galvanized

Cable Hooks

Communication & Low Voltage

BCH12



Open



Closed



BCH21



BCH32



BCH64



| UPC/Part Number | Catalog Number | Hook Size | Capacity Up To | Box Qty. |
|-----------------|----------------|----------------------------------|---|----------|
| 78205128060 | BCH12 | 3/4" | 16 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 10 CAT6 | 50 |
| 78101104713 | BCH21 | 1 ⁵ / ₁₆ " | 50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A | 50 |
| 78101104713 | BCH32 | 2" | 50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A | 50 |
| 78101104713 | BCH64 | 4" | 50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A | 25 |

Patent #5961081

For special finish colors see page 156

(See pages 239-240 for technical data.)



Painted Cable Hooks

- Powder coated cable hooks are available in a range of colors to help meet your cable identification requirements.
- Standard riveted assemblies are available with painted cable hooks.
- Part numbers can be made by adding the paint color suffix after the cable hook part number.
- Minimum order quantity 500 pieces.
- Standard lead time is 5-10 working days.

Bright White - BW
Brown - BR
Computer White - CW
Equipment Blue - BL
Flat Black - FB

Green - GR
Orange - OR
Regal Red - RR
Safety Yellow - YL
Telcom Gray - TG

Part # Example:

Painted Cable Hook Part Number - BCH32BW

Painted Cable Hook Assembly - BCH32BW-U24



J-Hook Color ID Clip

- Color-coded clips allow for content designation without inventorying various colored hardware.
- Easy to designate pathways to prevent crossover.
- Order separately and field install.
- Can be snapped on J-Hook after it has been installed.
- Manufactured from Underwriters Laboratories (UL) Listed material for plenum spaces.
- Suitable for 3/4", 1⁵/₁₆", 2", and 4" J-Hook sizes.
- Available in six (6) colors:
Blue (BL), White (WH), Gray (GY), Orange (OR), Red (RD), and Yellow (YW).

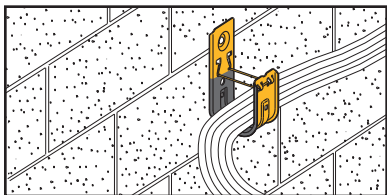
Part # Example:

Blue Colored ID Clip Part Number

BCHID-BL12 - blue clip for BCH12 J-Hook

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



X-Hook Low Friction Cable Hooks

- Xylan® coating provides smooth frictionless surface for cable pulling.
- Great for use in corners, drop-outs or direction change.
- X-Hook has lower coefficient of friction than Teflon®.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.



BCH64X

New Xylan® coating reduces cable friction. Ideal for pulling cable.



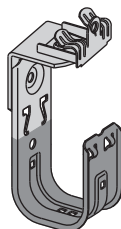
Cable rollers are too expensive and require installation and removal.

| UPC/Part Number | Catalog Number | Hook Size | Capacity | Box Qty. |
|-----------------|----------------|----------------------------------|--|----------|
| 78205129940 | BCH21X | 1 ⁵ / ₁₆ " | 50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A | 50 |
| 78205129941 | BCH32X | 2" | 80 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A | 50 |
| 78205129942 | BCH64X | 4" | 300 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A | 25 |

Note: For cable hook assemblies with X-Hooks add an X to the part number.

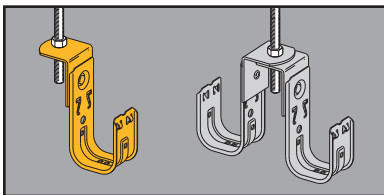
Example: BCH32X-U-2-4

(See pages 239-240 for technical data.)



Xylan® is a registered trademark used by Whitford Corporation
Teflon® is a registered trademark used by DuPont®

Communication & Low Voltage

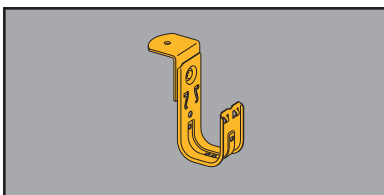


Cable To ATR Fasteners



- .505" diameter hole designed to support cable from 3/8" or 1/2" threaded rod.
- Allows back-to-back and multi-tier installations.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Hole Size | Box Qty. |
|-----------------|-----------------|-----------|----------------|----------|
| 78101104725 | BCH21-AB | 15/16" | .505" Diameter | 50 |
| 78101104729 | BCH32-AB | 2" | .505" Diameter | 50 |
| 78101104732 | BCH64-AB | 4" | .505" Diameter | 25 |



Angle Bracket Cable Fasteners



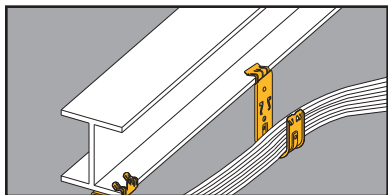
- Designed for direct attachment to structures.
- Supports cable from 1/4" threaded rod.
- .265" diameter hole accepts anchors, screws or common nails.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Hole Size | Box Qty. |
|-----------------|-----------------|-----------|----------------|----------|
| 78205128089 | BCH12-RB | 3/4" | .265" Diameter | 50 |
| 78101104735 | BCH21-RB | 15/16" | .265" Diameter | 50 |
| 78101104738 | BCH32-RB | 2" | .265" Diameter | 50 |
| 78101104742 | BCH64-RB | 4" | .265" Diameter | 25 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

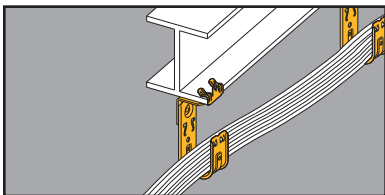
Cable To Beam Fasteners



| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|-----------|------------------|----------|
| 78205128067 | BCH12-E-2-4 | 3/4" | 1/8" to 1/4" | 50 |
| 78205128072 | BCH12-E-5-8 | 3/4" | 5/16" to 1/2" | 50 |
| 78205128073 | BCH12-E-9-12 | 3/4" | 9/16" to 3/4" | 50 |
| 78101104803 | BCH21-E-2-4 | 1 5/16" | 1/8" to 1/4" | 50 |
| 78101104805 | BCH21-E-5-8 | 1 5/16" | 5/16" to 1/2" | 50 |
| 78101104807 | BCH21-E-9-12 | 1 5/16" | 9/16" to 3/4" | 50 |
| 78101104825 | BCH32-E-2-4 | 2" | 1/8" to 1/4" | 50 |
| 78101104827 | BCH32-E-5-8 | 2" | 5/16" to 1/2" | 50 |
| 78101104829 | BCH32-E-9-12 | 2" | 9/16" to 3/4" | 50 |

(See pages 239-240 for technical data.)

Communication & Low Voltage



Cable To Beam Fasteners

- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



Allows
360°
Rotation

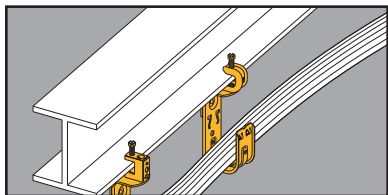


| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|---------------------|-----------|------------------|----------|
| 78205128062 | BCH12-U-2-4 | 3/4" | 1/8" to 1/4" | 50 |
| 78205128064 | BCH12-U-5-8 | 3/4" | 5/16" to 1/2" | 50 |
| 78205128066 | BCH12-U-9-12 | 3/4" | 9/16" to 3/4" | 50 |
| 78101104809 | BCH21-U-2-4 | 1 5/16" | 1/8" to 1/4" | 50 |
| 78101104811 | BCH21-U-5-8 | 1 5/16" | 5/16" to 1/2" | 50 |
| 78101104813 | BCH21-U-9-12 | 1 5/16" | 9/16" to 3/4" | 50 |
| 78101104831 | BCH32-U-2-4 | 2" | 1/8" to 1/4" | 50 |
| 78101104833 | BCH32-U-5-8 | 2" | 5/16" to 1/2" | 50 |
| 78101104835 | BCH32-U-9-12 | 2" | 9/16" to 3/4" | 50 |
| 78101104864 | BCH64-U-2-4 | 4" | 1/8" to 1/4" | 25 |
| 78101104865 | BCH64-U-5-8 | 4" | 5/16" to 1/2" | 25 |
| 78101104866 | BCH64-U-9-12 | 4" | 9/16" to 3/4" | 25 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage

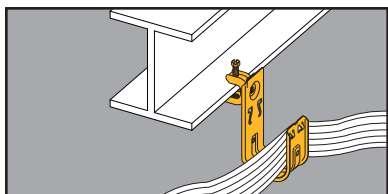


Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-------------------|-----------|------------------|----------|
| 78205128077 | BCH12-C442 | 3/4" | 1/8" to 5/8" | 50 |
| 78101104823 | BCH21-C442 | 1 5/16" | 1/8" to 5/8" | 50 |
| 78101104845 | BCH32-C442 | 2" | 1/8" to 5/8" | 50 |
| 78101104868 | BCH64-C442 | 4" | 1/8" to 5/8" | 25 |



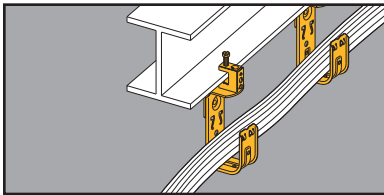
Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|--------------------|-----------|------------------|----------|
| 78205141850 | BCH12-C442A | 3/4" | 1/8" to 5/8" | 50 |
| 78205141851 | BCH21-C442A | 1 5/16" | 1/8" to 5/8" | 50 |
| 78205141852 | BCH32-C442A | 2" | 1/8" to 5/8" | 50 |
| 78205141853 | BCH64-C442A | 4" | 1/8" to 5/8" | 25 |

(See pages 239-240 for technical data.)

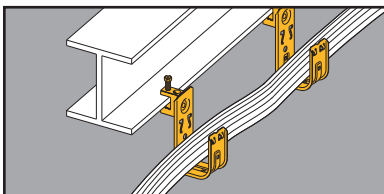


Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-----------------|-----------|------------------|----------|
| 78205128074 | BCH12-C2 | 3/4" | thru 1/2" | 50 |
| 78101104821 | BCH21-C2 | 15/16" | thru 1/2" | 50 |
| 78101104843 | BCH32-C2 | 2" | thru 1/2" | 50 |
| 78101104867 | BCH64-C2 | 4" | thru 1/2" | 25 |



Cable To Beam Fasteners

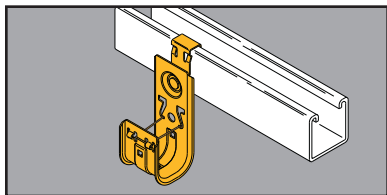


- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-----------------|-----------|------------------|----------|
| 78205141303 | BCH12-C1 | 3/4" | thru 1/2" | 50 |
| 78101195578 | BCH21-C1 | 15/16" | thru 1/2" | 50 |
| 78101195560 | BCH32-C1 | 2" | thru 1/2" | 50 |
| 78205141304 | BCH64-C1 | 4" | thru 1/2" | 25 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.



Cable Hook To Strut Attachment

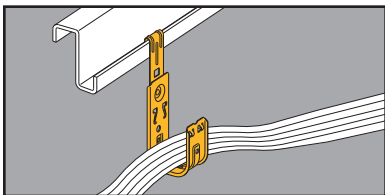
- BSC4 provides a simple snap-on attachment to strut, eliminating the need for tools or drilling.
- Cable retainer clips are included with hooks.
- Great for retrofit applications.
- Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



| UPC/Part Number | Catalog Number | Cable Hook Size | Box Qty. |
|-----------------|------------------|-----------------|----------|
| 78205146574 | BCH12-SC4 | 3/4" | 50 |
| 78205146575 | BCH21-SC4 | 15/16" | 50 |
| 78205146576 | BCH32-SC4 | 2" | 50 |
| 78205146583 | BCH64-SC4 | 4" | 50 |

(See pages 239-240 for technical data.)

Communication & Low Voltage

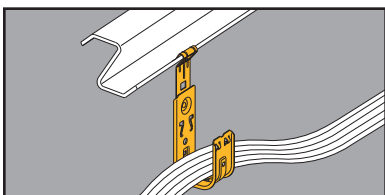


- Supports cable from vertical flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Flange Fasteners



| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-----------------|-----------|------------------|----------|
| 78205128078 | BCH12-F3 | 3/4" | 1/16" to 1/4" | 50 |
| 78101104815 | BCH21-F3 | 15/16" | 1/16" to 1/4" | 50 |
| 78101104837 | BCH32-F3 | 2" | 1/16" to 1/4" | 50 |
| 78101104869 | BCH64-F3 | 4" | 1/16" to 1/4" | 25 |



- Supports cable from angled flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Flange Fasteners

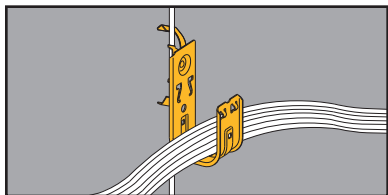


| UPC/Part Number | Catalog Number | Hook Size | Flange Thickness | Box Qty. |
|-----------------|-----------------|-----------|------------------|----------|
| 78205128079 | BCH12-F4 | 3/4" | 1/16" to 1/4" | 50 |
| 78101104817 | BCH21-F4 | 15/16" | 1/16" to 1/4" | 50 |
| 78101104839 | BCH32-F4 | 2" | 1/16" to 1/4" | 50 |
| 78101104870 | BCH64-F4 | 4" | 1/16" to 1/4" | 25 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



Cable To Wire and Rod Fasteners

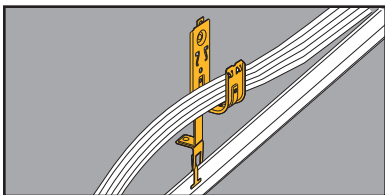
Communication & Low Voltage



- Supports cable from #12 wire thru $\frac{3}{8}$ " threaded rod.
- Cable retainer clips are included with hooks.
- W2 series attaches to #12 wire thru $\frac{1}{4}$ " plain or threaded rod.
- W6 series attaches to $\frac{3}{8}$ " plain or threaded rod.
- Static Load Capacity: 25 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|-------------------|----------|
| 78205146573 | BCH12-W2 | $\frac{3}{4}$ " | 50 |
| 78101104819 | BCH21-W2 | $\frac{15}{16}$ " | 50 |
| 78101104841 | BCH32-W2 | 2" | 50 |
| 78205128082 | BCH12-W6 | $\frac{3}{4}$ " | 50 |
| 78101195567 | BCH21-W6 | $\frac{15}{16}$ " | 50 |
| 78101195569 | BCH32-W6 | 2" | 50 |

(See pages 239-240 for technical data.)



Cable To T-Bar Fasteners

- Supports cable above ceiling grid and allows 360° rotation.
- Provides compliance with the EIA/TIA requirements.
- Permits dropwire attachment if required.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

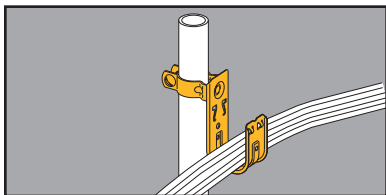


| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
| 78205128083 | BCH12-A28 | 3/4" | 50 |
| 78101104857 | BCH21-A28 | 15/16" | 50 |
| 78101104858 | BCH32-A28 | 2" | 50 |

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage

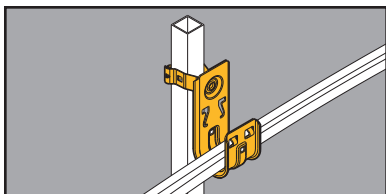


Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Floor Post Size | Box Qty. |
|-----------------|--------------------|-----------|-----------------|----------|
| 78205128085 | BCH12-L1410 | 3/4" | 1" O.D. | 50 |
| 78101104851 | BCH21-L1410 | 15/16" | 1" O.D. | 50 |
| 78101104855 | BCH32-L1410 | 2" | 1" O.D. | 50 |
| 78101104871 | BCH64-L1410 | 4" | 1" O.D. | 25 |



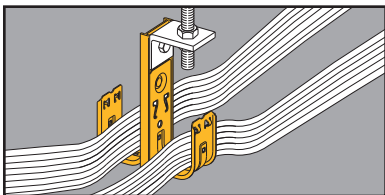
Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

| UPC/Part Number | Catalog Number | Hook Size | Floor Post Size | Box Qty. |
|-----------------|---------------------|-----------|-----------------|----------|
| 78205128086 | BCH12-G-8-12 | 3/4" | 1" Square | 50 |
| 78101172487 | BCH21-G-8-12 | 15/16" | 1" Square | 50 |
| 78101172489 | BCH32-G-8-12 | 2" | 1" Square | 50 |
| 78101172491 | BCH64-G-8-12 | 4" | 1" Square | 25 |

(See pages 239-240 for technical data.)



Double-Sided Multi-Tier Cable Fasteners



1D



2D

- Factory assembled multi-tier fasteners speed up installation.
- Unique design prevents hook and assembly rotation when pulling cable.
- All support bars furnished in 6063-T6 aluminum.
- Shown with optional BCHK2 kit.
- Cable retainer clips are included with hooks.
- Static Load Capacity: (per hook) 30 Lbs.
- Finish: Pre-galvanized

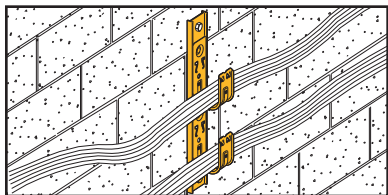
| UPC/Part Number | Catalog Number | Hook Size | Description | Box Qty. |
|-----------------|-----------------|----------------------------------|--|----------|
| 78101104758 | BCH21-1D | 1 ⁵ / ₁₆ " | 1 Tier, 2-Sided, 5 ¹ / ₂ " High | 20 |
| 78101104762 | BCH32-1D | 2" | 1 Tier, 2-Sided, 6 ³ / ₁₆ " High | 25 |
| 78101104874 | BCH64-1D | 4" | 1 Tier, 2-Sided, 9" High | 10 |
| 78101104766 | BCH21-2D | 1 ⁵ / ₁₆ " | 1 Tier, 2-Sided, 9 ¹ / ₄ " High | 10 |
| 78101104770 | BCH32-2D | 2" | 1 Tier, 2-Sided, 11" High | 10 |
| 78101104875 | BCH64-2D | 4" | 1 Tier, 2-Sided, 18 ¹ / ₄ " High | 10 |

Patent #5961081

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



Single-Sided Multi-Tier Cable Fasteners

- Factory assembled multi-tier fasteners speed up installation.
- Available in two-six tier assemblies.
- Unique design prevents hook and assembly rotation when pulling cable.
- Cable retainer clips are included with hooks.
- All support bars furnished in 6063-T6 aluminum.
- Static Load Capacity: 30 Lbs. (per hook)



2S



3S



| UPC/Part Number | Catalog Number | Hook Size | Description | Box Qty. |
|-----------------|-----------------|----------------------------------|---|----------|
| 78101104773 | BCH21-2S | 1 ⁵ / ₁₆ " | 2 Tier, 1-Sided, 11" Overall Height | 20 |
| 78101104776 | BCH32-2S | 2" | 2 Tier, 1-Sided, 12 ³ / ₄ " Overall Height | 25 |
| 78101195300 | BCH64-2S | 4" | 2 Tier, 1-Sided, 19 ⁵ / ₁₆ " Overall Height | 10 |
| 78101104779 | BCH21-3S | 1 ⁵ / ₁₆ " | 3 Tier, 1-Sided, 14 ³ / ₄ " Overall Height | 10 |
| 78101104782 | BCH32-3S | 2" | 3 Tier, 1-Sided, 17 ¹ / ₂ " Overall Height | 10 |
| 78101195303 | BCH64-3S | 4" | 3 Tier, 1-Sided, 28 ¹ / ₁₆ " Overall Height | 10 |

Patent #5961081

(See pages 239-240 for technical data.)

Communication & Low Voltage



4S



5S



6S



Communication & Low Voltage

| UPC/Part Number | Catalog Number | Hook Size | Description | Box Qty. |
|-----------------|-----------------|----------------------------------|--|----------|
| 78101104785 | BCH21-4S | 1 ⁵ / ₁₆ " | 4 Tier, 1-Sided, 18 ¹ / ₂ " Overall Height | 10 |
| 78101104788 | BCH32-4S | 2" | 4 Tier, 1-Sided, 21 ³ / ₄ " Overall Height | 10 |
| 78101197872 | BCH64-4S | 4" | 4 Tier, 1-Sided, 36 ¹³ / ₁₆ " Overall Height | 10 |
| 78101104791 | BCH21-5S | 1 ⁵ / ₁₆ " | 5 Tier, 1-Sided, 21 ³ / ₄ " Overall Height | 10 |
| 78101104794 | BCH32-5S | 2" | 5 Tier, 1-Sided, 27" Overall Height | 10 |
| 78101104797 | BCH21-6S | 1 ⁵ / ₁₆ " | 6 Tier, 1-Sided, 26" Overall Height | 10 |
| 78101104800 | BCH32-6S | 2" | 6 Tier, 1-Sided, 31 ³ / ₄ " Overall Height | 10 |

Patent #5961081

(See pages 239-240 for technical data.)

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



Shown with
BRC5
Brackets



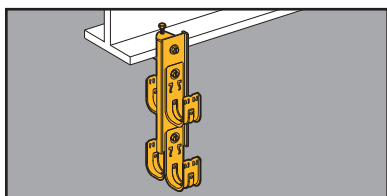
Shown with
Cable
Hooks

- The BCH-HBA combines a tiered support bar and angle bracket into one piece.
- More flexibility! The BCH-HBA can be supported from $\frac{3}{16}$ " , $\frac{1}{4}$ " , $\frac{5}{16}$ " or $\frac{3}{8}$ " rod.
- Mounts up to three BCH21 or BCH32 cable hooks or two BCH64 cable hooks per side.
- Mounts up to three BRC5 MC/AC cable support brackets per side.
- Load Capacity: 180 lbs.

Multi-Tier Support Bar



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|------------------------|----------|
| 78205143819 | BCH-HBA | Multi-Tier Support Bar | 40 |



- Support bars furnished in 6063-T6 aluminum.



Multi-Tier Cable Hook Kits



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|-----------------|---|----------|
| 78101199572 | BCH-HB21 | Support Bar for BCH21 and BCH32 $8\frac{1}{4}$ " long with .281Ø holes | 20 |
| 78101199574 | BCH-HB64 | Support Bar for BCH64 $13\frac{5}{16}$ " long with .281Ø holes | 20 |

(See pages 239-240 for technical data.)

Multi-Tier Attachment Kits

- BCHK1 includes:
Beam clamp (B444-1/4)
and 1/4"-20 x 1/2"
hex head cap screw



BCHK1

- BCHK2 includes:
Angle bracket (.320"Ø
and .390"Ø holes) and
1/4"-20 x 1/2"
hex head cap screw



BCHK2

- BCHK3 includes:
1 each BCHK1 Kit and
BCHK2 Kit

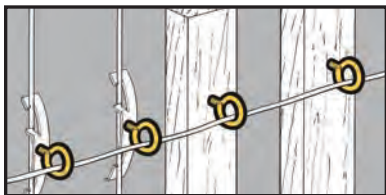


BCHK3

| UPC/Part Number | Catalog Number | Kit Description | Flange Thickness | Box Qty. |
|-----------------|----------------|---|------------------|----------|
| 78101104872 | BCHK1 | Beam Clamp | Thru 1/2" | 10 |
| 78101104860 | BCHK2 | Angle Bracket | -- | 10 |
| 78101104873 | BCHK3 | Beam Clamp with Angle Bracket (swivels 360°) | Thru 1/2" | 10 |

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage



- Supports low voltage communication cables from beams or rods when used with other fasteners.
- *Ultimate Static Load Capacity:* 50 Lbs.
- Finish: Zinc Plated

Threaded Bridle Rings



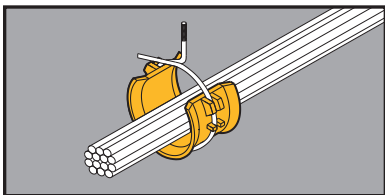
| UPC/Part Number | Catalog Number | Ring Size | Thread Size x Thread Length | Box Qty. |
|-----------------|-----------------|-----------|-----------------------------|----------|
| 78101119550 | BR-8-T | 1/2" | #10-24 x 9/16" | 100 |
| 78101119555 | BR-12-T | 3/4" | #10-24 x 9/16" | 100 |
| 78101119560 | BR-20-T | 1 1/4" | #10-24 x 9/16" | 100 |
| 78101119570 | BR-32-T | 2" | #10-24 x 9/16" | 100 |
| 78101119565 | BR-20-4T | 1 1/4" | 1/4"-20 x 9/16" | 100 |
| 78101119575 | BR-32-4T | 2" | 1/4"-20 x 9/16" | 100 |
| 78101119889 | BR-64-4T | 4" | 1/4"-20 x 9/16" | 50 |



Lag Screw
for Wood
Beams

| UPC/Part Number | Catalog Number | Ring Size | Thread Size x Thread Length | Box Qty. |
|-----------------|-----------------|-----------|-----------------------------|----------|
| 78101119875 | BR-16-3W | 1" | #10 x 9/16" | 100 |
| 78101119886 | BR-24-4W | 1 1/2" | 1/4" x 27/32" | 100 |
| 78101119876 | BR-32-4W | 2" | 1/4" x 7/8" | 100 |

Communication & Low Voltage



- The convenience of a bridle ring with the cable-bearing surface of a hook.
- 2" saddle is available separately. Can be easily attached before or after cable installation.

Bridle Ring Saddles



BRS-32A

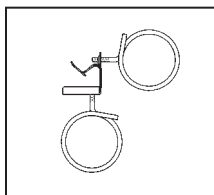


BRS-64A

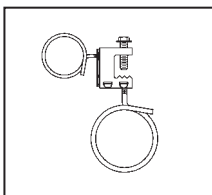
BRS-32

| UPC/Part Number | Catalog Number | Thread Size x Thread Length/Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78205122761 | BRS-32A | 1/4"-20 x 7/8" 2" Ring Assembly | 50 |
| 78205122762 | BRS-64A | 1/4"-20 x 1" 4" Ring Assembly | 25 |
| 78205122759 | BRS-32 | 2" Saddle Only | 50 |

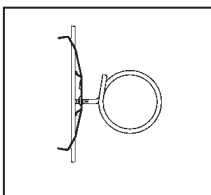
Also available for use with the following B-Line Fasteners.



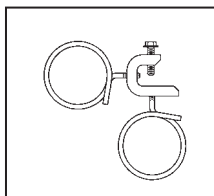
BU-9-12



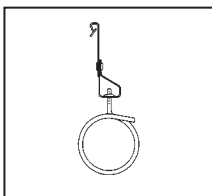
BC1



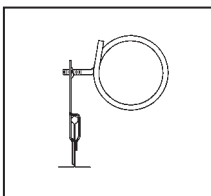
BW2



BC442



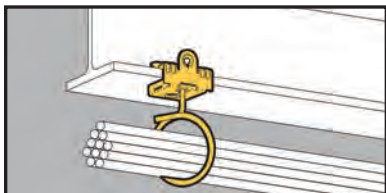
BH4-F3



BA5-4T

Read safety/installation instruction sheets in packages before use.

Communication & Low Voltage

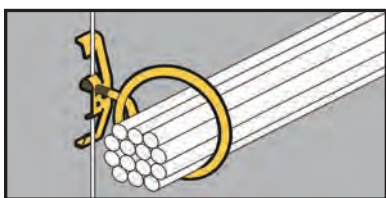


Bridle Ring/Beam Fastener Assy.



- Supports low voltage communication cables from beam flanges 1/8" to 3/4" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|------------------------|---------------|----------|
| 78101102921 | BR-32-4T-U-2-4 | 1/8" to 1/4" | 50 |
| 78101102923 | BR-32-4T-U-5-8 | 5/16" to 1/2" | 50 |
| 78101102924 | BR-32-4T-U-9-12 | 9/16" to 3/4" | 50 |



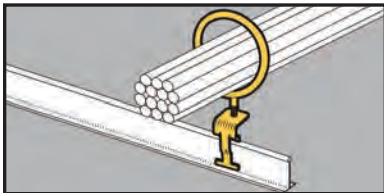
Bridle Ring/Rod & Wire Fastener Assy.



- Supports low voltage communication cables from drop wire.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|--------------------|--|----------|
| 78101102929 | BR-32-4T-W2 | #12 Wire Thru 1/4" Plain or Threaded Rod | 50 |

Communication & Low Voltage

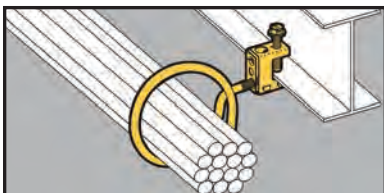


Bridle Ring/T-Bar Fastener Assembly

- Supports low voltage communication cables above the T-Bar.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- For positioning only - No Load Rating



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------|----------|
| 78101102934 | BR-32-4T-A6 | 2" Ring Size | 50 |



Bridle Ring/Beam Fastener Assembly

- Supports low voltage communication cables from beam flanges thru 1/2" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity: 15 lbs.



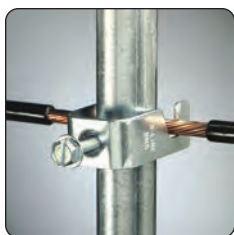
| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|--------------|----------|
| 78101102937 | BR-32-4T-C1 | 2" Ring Size | 50 |

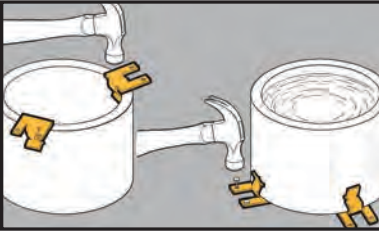
Read safety/installation instruction sheets in packages before use.

Accessories



Accessories



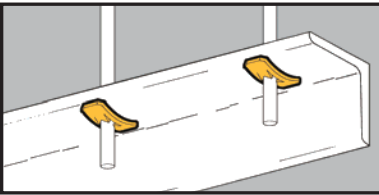


Pipe Sleeve Fasteners



- Allows for rigid attachment of pipe sleeves to wall and floor forms for concrete pouring.
- Accommodates Schedule 40, Schedule 80, or 5/16" and smaller wall thickness.

| UPC/Part Number | Catalog Number | Sleeve Diameter | Wall Thickness | Box Qty. |
|-----------------|----------------|-----------------|------------------|----------|
| 78101118285 | BD40 | All Dia. | 5/16" & Under | 100 |
| 78101118285 | BD40 | 2" to 6" | Schedule 40 Pipe | 100 |



Accessory Nuts



BN-2, BN-4,
BN-6
Push Nuts



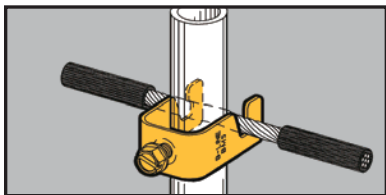
BN1
"U" Nuts With
Thread Impression

- Push Nuts designed for use with plain rod.
- "U" Nuts provide 1/4"-20 thread impression for unthreaded hole.
- No installation tools required.

| UPC/Part Number | Catalog Number | Rod/Wire Size | Static Load Capacity | Box Qty. |
|-----------------|----------------|-------------------|-------------------------|----------|
| 78101110115 | BN-2 | #8 Wire | 100 lbs. thru 3/8" hole | 100 |
| 78101119120 | BN-4 | 1/4" Plain Rod | 100 lbs. thru 3/8" hole | 100 |
| 78101119125 | BN-6 | 3/8" Plain Rod | 200 lbs. thru 1/2" hole | 100 |
| 78101119110 | BN1 | 1/4" Threaded Rod | 50 lbs. on 9/32" hole | 100 |

Read safety/installation instruction sheets in packages before use.

Accessories



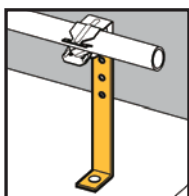
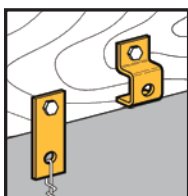
- Attaches signal reference grid wire to computer floor posts.
- Fits #8 thru #4 stranded wire. (.146" O.D. thru .232" O.D.).
- Fits 3/4" to 1" round or square posts.

Reference Wire Fasteners



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------------------------------|----------|
| 78101101659 | BM5 | Single Reference Grid Wire Fastener | 100 |

Accessories



- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



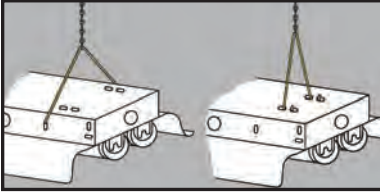
BD4



BA28B

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|----------------|----------|
| 78101101686 | BD2 | Flat Bracket | 100 |
| 78101118280 | BD4 | Offset Bracket | 100 |
| 78101101449 | BA28B | Angle Bracket | 50 |

Accessories



- For hanging industrial class fluorescent lighting fixtures.
- Use with Jack Chain and "S" Hooks.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

Light Fixture Hangers

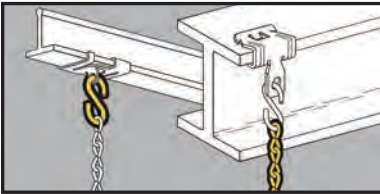


BH15



BH16

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101101236 | BH15 | Side Mount Fluorescent Light Fixture Hanger | 100 |
| 78101101237 | BH16 | Top Mount Fluorescent Light Fixture Hanger | 100 |



- For support of light fixtures and signs.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

Jack Chain & "S" Hooks



BH10

BH9
BH9-10



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-----------------------|----------|
| 78101118850 | BH9 | #12 Single Jack Chain | 100 ft. |
| 78101102901 | BH9-10 | #10 Single Jack Chain | 100 ft. |
| 78101118855 | BH10 | #11 "S" Hook | 50 |

Read safety/installation instruction sheets in packages before use.

Accessories



KwikWire™ Clamps

- KwikWire™ system replaces jack chain or ATR to support lighting, ductwork, cable tray, etc.
- Can be quickly installed around beams - No drilling required.
- Ideal for sloped ceilings - can hang objects at up to 60° angles.
- Simple height adjustments are made by releasing locking tab, no tools required.
- Spools of wire can be cut to length in field, reducing waste and up front planning.



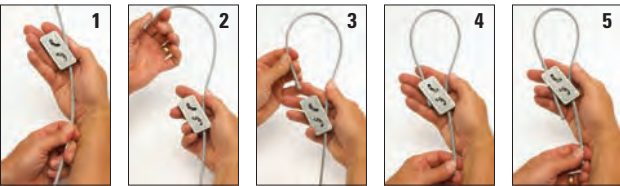
Accessories

| UPC/Part Number | Catalog Number | For Use With Wire Rope Diameters | Box Qty. |
|-----------------|----------------|----------------------------------|----------|
| 78205140719 | BKC100 | 1/16" & 3/32" | 100 |
| 78205140723 | BKC200 | 1/8" & 3/16" | 50 |

KwikWire Clamp Working Loads*

| Clamp Part No. | Wire Rope Dia. | Lbs. Safety Factor 5 |
|----------------|----------------|----------------------|
| BKC100 | 1/16" | 0-75 |
| | 3/32" | 25-150 |
| BKC200 | 3/32" | 25-150 |
| | 1/8" | 25-250 |
| | 3/16" | 50-640 |

* Working loads shown are for hanging vertically.
 For suspending at 15°, 30°, 45° or 60° angles from vertical use the following percentage of the working loads from the chart:
 15° = 96%, 30° = 86%,
 45° = 70%, 60° = 50%



1. Pass the wire through the KwikWire Clamp
2. Loop wire through/around support
3. Pass wire back through KwikWire Clamp
4. Push wire through clamp leaving 2" to 3" tail, then apply tension on wire
5. To adjust, remove tension and pull wire slightly to disengage teeth, slide adjustment pin in direction shown by arrow to release wire.



7 x 7



7 x 19

KwikWire™ Wire Rope

| UPC/Part Number | Catalog Number | Wire Diameter | Working Load - Lbs. | Spool Qty. |
|-----------------|-------------------|---------------|---------------------|------------|
| 78205140725 | BKW063 (1) | 1/16" | 96 | 500 ft. |
| 78205140727 | BKW094 (1) | 3/32" | 184 | 500 ft. |
| 78205140733 | BKW125 (1) | 1/8" | 340 | 500 ft. |
| 78205140734 | BKW188 (2) | 3/16" | 840 | 250 ft. |

(1) Wire rope construction Type 7 x 7

(2) Wire rope construction Type 7 x 19

Uncoated Galvanized Wire



- KwikPak™ includes a supply of kwik-clamps and a spool of wire rope.
- KwikPak are shipped in a specially designed dispenser box to ease field cutting of wire.

KwikPak™



| UPC/Part Number | Catalog Number | Kit Includes | Box Qty. |
|-----------------|-----------------|--|----------|
| 78205140749 | BKP10063 | BKC100 (100 pcs.) 1/16" Ø Wire Rope (500 ft.) | 1 |
| 78205140751 | BKP10094 | BKC100 (100 pcs.) 3/32" Ø Wire Rope (500 ft.) | 1 |
| 78205140761 | BKP20125 | BKC200 (50 pcs.) 1/8" Ø Wire Rope (500 ft.) | 1 |
| 78205140763 | BKP20188 | BKC200 (50 pcs.) 3/16" Ø Wire Rope (250 ft.) | 1 |

Read safety/installation instruction sheets in packages before use.

Accessories



- KwikWire™ hanger combines the versatility of a bolt with an adjustable wire rope solution.
- Can be quickly installed in existing anchors or metal brackets with a nut.
- Ideal for supporting light fixtures, wire basket cable tray, HVAC ducts, and sign/banner supports.
- See page 182 for wire rope spools.

KwikWire™ Hanger

| UPC/Part Number | Catalog Number | Thread Size | Wire Rope Diameter | Load SF5 | Box Qty. |
|-----------------|-----------------|-------------|--------------------|--------------------|----------|
| 78205158764 | BKF100-4 | 1/4"-20 | 1/16" 3/32" | 45 lbs. 90 lbs. | 100 |
| 78205158765 | BKF100-6 | 3/8"-16 | 1/16" 3/32" | 45 lbs. 90 lbs. | 100 |



1. Screw KwikWire Hanger into installed hanger support
2. Push wire up through the bottom of KwikWire Hanger
3. Continue pushing through until 1/4" minimum is extending out the side of the KwikWire Hanger
4. To adjust up - pull or push more wire through KwikWire Hanger
5. To adjust down - push up on bottom of KwikWire Hanger and allow wire to feed down
6. When hanging the wire is complete, cut off any excess cable wire if desired

KwikWire™ Accessories



BKL Series

Loop Termination

- Available as a wire rope with loop termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".



BKH Series

Single & "Y" Style Hook Termination

- Hook designed to accept up to 3/8" diameter wire.
- Available as a wire rope with hook termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles



BKYH Series



BKT Series

Single & "Y" Style Toggle Termination

- Available as a wire rope with toggle termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles
- All triple (3) leg styles are non-stock, consult B-Line for lead times



BKYT Series



BKB Series

Bolt Loop Termination

- Ideal for use with ARS, ARC, ADI, ACPW, or ACPD anchors.
- Available as a wire rope with bolt termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) styles
- All double (Y) and triple (3) styles are non-stock, consult B-Line for lead times



BKA Series

Angle Bracket Termination

- Available as a wire rope with angle bracket termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".

For additional options, refer to KwikWire Brochure (KWHS)

Read safety/installation instruction sheets in packages before use.

Accessories



BKCP



B601-62



BKCC

KwikWire™ Accessories

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------|----------|
| 78205140766 | BKCP | Air Duct Corner Protector | 100 |
| 78101156059 | B601-62 | Air Duct Support | 50 |
| 78205140297 | BKCC * | Wire Rope Cutter | 1 |

Danger: Never use cutters on energized circuits, wire, or cable.

Note: Additional accessories include BE Series (pg. 96), BF Series (pgs. 125 & 129), and BPNA Series (pg. 139)

** Not for use of cutting 3/16" diameter cable.*

KwikWire™ System Recommendations:

- Do not exceed the safe working load of the products shown in their charts
- All characteristics of KwikWire must be used with wire supplied by B-Line
- Do not use for overhead lifting or hoisting
- Do not use if cable or components are visibly distorted or worn, remove damaged cable end prior to inserting in KwikWire™ Clamp
- Do not paint cable near working area of KwikWire Clamp connector
- Do not apply lubricant
- Keep product clean and free of dirt
- Do not use on coated wire rope
- Do not use in chlorinated or caustic atmospheres
- For use in dry locations
- Cooper's BKCC tool is recommended for cutting wire rope to prevent fraying
- For use on vertical applications only

Application Photos



Accessories



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------------|---|----------|
| 78101101687 | SHHMS 1/4x1/2 | 1/4"-20 x 1/2" Slotted Hex Head Machine Screw | 100 |



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------------------------|----------|
| 78101142103 | MSQN1/4 | 1/4"-20 Machine Square Nut | 100 |



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---------------------------------|----------|
| 78101110675 | BWHS-9 | Sheet Metal Screw #8 x 9/16" | 1000 |

Note: BWHS-9 can be used with all fasteners requiring attachments with sheet metal screws.



| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|---|----------|
| 78101104925 | BWHS-9D | #8 x 1/2" Self-Drilling Sheet Metal Screw | 1000 |

Note: BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws except BB2-16, BB2-16D, BB2-24 & BB2-24D.

Read safety/installation instruction sheets in packages before use.

Anchors



Anchors



Glossary

| Prefix - Description | Screw Dia. | Length | Suffix |
|---|------------|--------------|---------------------------|
| ACB - Concrete Anchor Bolt | 4 - #4 | 75 - 3/4" | AN - Acorn Nut |
| ACPD - Bang-IT | 6 - #6 | 81 - 13/16" | CH - Combo Head |
| ACPW - Wood-Knocker | 8 - #8 | 87 - 7/8" | F - Flat |
| ACS - Concrete Screw | 10 - #10 | 100 - 1" | FL - Flanged |
| ADA - Drive Anchor | 12 - 1/8" | 118 - 13/18" | H - Hex |
| ADE - Double Expansion Anchor | 18 - 3/16" | 125 - 11/4" | HN - Hex Nut |
| ADH - Hollow-Base Drop-IN | 25 - 1/4" | 150 - 11/2" | HS - Hole Saw |
| ADI - Drop-In | 31 - 5/16" | 175 - 13/4" | K - Kit |
| ADM - Mini Drop-In | 37 - 3/8" | 187 - 17/8" | M - Mushroom |
| ADN - Drive Nail | 50 - 1/2" | 200 - 2" | OH - Oval Head |
| AMS - Machine Screw | 62 - 5/8" | 225 - 21/4" | PH - Pan Head |
| APC - Conical Anchor | 75 - 3/4" | 250 - 21/2" | RH - Rod Hanger |
| APD - Plastic Driller | 87 - 7/8" | 275 - 23/4" | RS - Slotted Round Head |
| APDM - Plastic Driller - Mini | | 300 - 3" | |
| APH - Plastic Hollow Wall Anchor | | 325 - 31/4" | SS4 - 304 Stainless Steel |
| APS - Plastic Screw Anchor | | 350 - 31/2" | |
| ARC - Rapid Rod™ Concrete | | 375 - 33/4" | T - Tool |
| ARS - Rapid Rod™ Steel | | 400 - 4" | WH - Wire Hanger |
| ARW - Rapid Rod™ Wood | | 425 - 41/4" | |
| ASA - Sleeve Anchor | | 450 - 41/2" | |
| ASE - Single Expansion Anchor | | 500 - 5" | |
| ATB - Toggle Bolt | | 525 - 51/4" | |
| ATM - Self-Tapping Machine Screw Anchor | | 550 - 51/2" | |
| | | 600 - 6" | |
| AWA - Wedge Anchor | | 700 - 7" | |
| AWSD - Seismic Wedge Anchor | | | |
| AWS - Wall Screw | | | |
| AZD - Zinc Driller | | | |
| AZDM - Zinc Driller-Mini | | | |

Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Steel rapid rods can be installed with a screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers Steel

Steel Rapid Rod - Data

| Point Style | #3 | #5 |
|---------------------------|---------------|------------|
| Self-Drilling Range (in.) | 20 ga. - 3/16 | 3/16 - 1/2 |
| Screw Size (UNC) * | 1/4"-20 | 1/4"-20 |
| Thread Length (in.) * | 1 3/16 | 3 1/32 |

* Dimensions for self-drilling (embedded) portion of anchor.

Steel Rapid Rod - Load Data

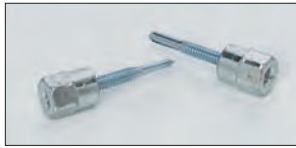
| Rod/ Anchor Size | Minimum Steel Gauge Thickness | | | | | | |
|------------------------|-------------------------------|------------|------------|------------|------------|-------|------|
| | 20 (.036") | 18 (.048") | 16 (.060") | 14 (.075") | 12 (.105") | 3/16" | 1/4" |
| 1/4 | 100 | 155 | 245 | 290 | 390 | 800 | 1260 |
| 1/4 w/nut | 390 | 390 | 440 | 440 | 510 | 960 | 510 |
| 3/8 | 100 | 155 | 245 | 290 | 390 | 490 | 490 |
| 3/8 w/nut | 365 | 365 | 365 | 365 | 365 | 365 | 365 |
| 1/2 | 120 | 175 | 230 | 390 | 510 | 820 | 1260 |

Loads shown for ASTM A36 steel beams and ASTM A572 steel purlins include a safety factor of 4.

For UL & FM listings, steel rapid rod must be installed with a retaining nut. UL & FM load rating for 3/8" rapid rod is 365 lbs. and can support up to a maximum 4" pipe.

UL & FM load rating for 1/2" rapid rod is 900 lbs. and can support up to a maximum 6" pipe.

Rapid Rod™ Hangers



| UPC/Part Number | Catalog Number | Rod Size | Shank Size & Length | Box Qty. |
|---|-------------------------|----------|------------------------|----------|
| Steel Rod Hanger - Point Style #3 For Purlins | | | | |
| 78205153317 | ARS-25-100 | 1/4" | 1/4" x 1" | 100 |
| 78205153318 | ARS-37-200 | 3/8" | 1/4" x 2" | 100 |
| 78205153320 | ARS-37-100HN** | 3/8" | 1/4" x 1" w/nuts | 100 |
| 78205153321 | ARS-37-150 | 3/8" | 1/4" x 1 1/2" | 100 |
| 78205153322 | ARS-37-150HN** | 3/8" | 1/4" x 1 1/2" w/nuts | 100 |
| Steel Rod Hanger - Side Mount - Point Style #3 For Purlins | | | | |
| 78205153323 | ARS-25-100SW | 1/4" | 1/4" x 1" | 100 |
| 78205153324 | ARS-37-100SW | 3/8" | 1/4" x 1" w/nuts | 100 |
| Steel Rod Hanger - Point Style #5 For Purlins | | | | |
| 78205153325 | ARS-25-150HD | 1/4" | #12-24 x 1 1/2" | 100 |
| 78205153326 | ARS-37-150HDHN** | 3/8" | #12-24 x 1 1/2" w/nuts | 100 |
| 78205153327 | ARS-50-150HDHN** | 1/2" | #12-24 x 1 1/2" w/nuts | 100 |

** For UL & FM listings, steel rapid rod should be installed with a retaining nut.

| UPC/Part Number | Catalog Number | Tool Description | Box Qty. |
|-----------------|----------------|-------------------------------|----------|
| Tool | | | |
| 78205153287 | 7187 | Universal Steel & Wood Socket | 1 |

Read safety/installation instruction sheets in packages before use.

Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Wood rapid rods can be installed with a screw gun or hammer drill.
- Concrete Rapid Rod hangers can be installed with an adjustable torque, battery powered screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers - Concrete

| Concrete Rapid Rod - Data | 1/4" | 3/8" | 1/2" |
|--------------------------------|-------|-------|-------|
| ANSI Drill Bit (in.) | 1/4 | 1/4 | 3/8 |
| Thread Length (in.) | 1 1/8 | 1 3/8 | 2 1/2 |
| Min. Embedment Depth (in.) | 1 1/4 | 1 1/2 | 2 3/4 |
| Load Capacity Tension (lbs.) * | 485 | 650 | 1510 |
| Load Capacity Shear (lbs.) * | 610 | 660 | 1580 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

FM approved load capacity for 3/8" anchor is 365 lbs., maximum 4" pipe size. FM approved load capacity for 1/2" anchor is 950 lbs., maximum 8" pipe size.

Rapid Rod Hangers - Wood

| Wood Rapid Rod - Data | 1/4" Thread Forming | 3/8" Thread Forming |
|--------------------------|---------------------|---------------------|
| Pre-Drill Diameter (in.) | 1/8 | 1/8 |
| Point Style | Type 17 | Type 17 |

Wood Rapid Rod - Embedment & Load Data

| Rod/Anchor Size | Embedment Depth | Fir | Pine | Spruce |
|-----------------|-----------------|-----|------|--------|
| 1/4 | 1" | 170 | 160 | 160 |
| 3/8 | 2" | 375 | 375 | 375 |
| 1/2 | 2 1/2" | 665 | 775 | 775 |

Minimum load ratings are based on a safety factor of 4.

UL approved load capacity for 3/8" rod sizes and 1/4" screw size is 260 lbs., maximum 3" pipe. UL approved load capacity for 3/8" rod sizes and 3/8" screw size is 375 lbs., maximum 4" pipe. FM approval only applies to 3/8" x 2 1/2" screw size. Approved for 365 lbs., up to 4" pipe.

Rapid Rod™ Hangers



| UPC/Part Number | Catalog Number | Rod Size | Shank Size & Length | Box Qty. |
|-----------------|----------------|----------|---------------------|----------|
|-----------------|----------------|----------|---------------------|----------|

Concrete Rod Hanger - ANSI Wedge-Bolt OT Thread Shank Style

| | | | | |
|-------------|-------------------|------|---------------|-----|
| 78205153328 | ARC-25-125 | 1/4" | 1/4" x 1" | 100 |
| 78205153329 | ARC-37-150 | 3/8" | 1/4" x 1 1/2" | 100 |
| 78205153330 | ARC-50-275 | 1/2" | 3/8" x 2 3/4" | 50 |

For side mount concrete applications use ARW-25-100SW or ARW-37-200SW with 1/4" drill bit.

Wood Rod Hanger - Point Style Type 17

| | | | | |
|-------------|-------------------|------|---------------|-----|
| 78205153331 | ARW-25-200 | 1/4" | 1/4" x 2" | 100 |
| 78205153332 | ARW-37-100 | 3/8" | 1/4" x 1" | 100 |
| 78205153333 | ARW-37-200 | 3/8" | 1/4" x 2" | 100 |
| 78205153334 | ARW-37-250 | 3/8" | 3/8" x 2 1/2" | 100 |
| 78205153335 | ARW-50-250 | 1/2" | 1/2" x 2 1/2" | 100 |

Wood Rod Hanger - Side Mount - Point Style Type 17

| | | | | |
|-------------|---------------------|------|-----------|-----|
| 78205153336 | ARW-25-100SW | 1/4" | 1/4" x 1" | 100 |
| 78205153337 | ARW-37-200SW | 3/8" | 1/4" x 2" | 100 |

| UPC/Part Number | Catalog Number | Tool Description | Box Qty. |
|-----------------|----------------|------------------|----------|
|-----------------|----------------|------------------|----------|

Tools

| | | | |
|-------------|-------------|-----------------------------------|---|
| 78205153287 | 7187 | Universal Steel & Wood Socket | 1 |
| 78205153288 | 7195 | 1/4" Concrete Socket | 1 |
| 78205153289 | 7197 | 3/8" Concrete Socket | 1 |
| 78205153290 | 7198 | 1/2" Concrete Socket | 1 |
| 78205153360 | 5874 | Concrete Tapper Sleeve Assy. | 1 |
| 78205153361 | 5866 | 1/4" X 6" Hex Shank SDS Drill Bit | 1 |

Read safety/installation instruction sheets in packages before use.

Anchors

Drop-in Anchors

- Designed for use in solid concrete.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- UL & FM approved.
- Available in Zinc Plated finish or Stainless Steel.



| Drop-In Anchors - Data | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
|---------------------------------|---------|---------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 3/8 | 1/2 | 5/8 | 7/8 | 1 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 20 | 40 | 80 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 |
| Min. Embedment Depth (in.) | 1 | 19/16 | 2 | 2 1/2 | 3 3/16 |
| Load Capacity Tension (lbs) * | 495 | 1045 | 1440 | 1860 | 3600 |
| Load Capacity Shear (lbs) * | 530 | 1145 | 1600 | 3095 | 3920 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Anchor Length | Thread Depth | Box Qty. |
|-----------------|----------------|----------|---------------|--------------|----------|
|-----------------|----------------|----------|---------------|--------------|----------|

Drop-In Anchor - Smooth Wall - Steel

| | | | | | |
|-------------|---------------|------|---------|----------|-----|
| 78101103218 | ADI-25 | 1/4" | 1" | 7/16" | 100 |
| 78101103219 | ADI-37 | 3/8" | 1 9/16" | 5/8" | 50 |
| 78101103220 | ADI-50 | 1/2" | 2" | 1 3/16" | 50 |
| 78101103221 | ADI-62 | 5/8" | 2 1/2" | 1 13/16" | 25 |
| 78101103222 | ADI-75 | 3/4" | 3 3/16" | 1 3/8" | 10 |

Drop-In Anchor - Smooth Wall - StainlessSteel

| | | | | | |
|-------------|------------------|------|---------|----------|-----|
| 78101103223 | ADI-25SS4 | 1/4" | 1" | 7/16" | 100 |
| 78101103224 | ADI-37SS4 | 3/8" | 1 9/16" | 5/8" | 50 |
| 78101103226 | ADI-50SS4 | 1/2" | 2" | 1 3/16" | 50 |
| 78101103227 | ADI-62SS4 | 5/8" | 2 1/2" | 1 13/16" | 25 |
| 78101103228 | ADI-75SS4 | 3/4" | 3 3/16" | 1 3/8" | 10 |

Drop-In Hanger - Flanged - Steel

| | | | | | |
|-------------|-----------------|------|---------|---------|-----|
| 78205153297 | ADI-25FL | 1/4" | 1" | 7/16" | 100 |
| 78205153298 | ADI-37FL | 3/8" | 1 9/16" | 5/8" | 50 |
| 78205153299 | ADI-50FL | 1/2" | 2" | 1 3/16" | 50 |

| UPC/Part Number | Catalog Number | Rod Size | Pin Length | Box Qty. |
|-----------------|----------------|----------|------------|----------|
|-----------------|----------------|----------|------------|----------|

Setting Tools

| | | | | |
|-------------|-------------|------|----------|---|
| 78101103229 | 6305 | 1/4" | 39/64" | 1 |
| 78101103231 | 6307 | 3/8" | 61/64" | 1 |
| 78101103232 | 6309 | 1/4" | 1 3/16" | 1 |
| 78101103233 | 6311 | 1/4" | 1 5/15" | 1 |
| 78101103234 | 6313 | 1/4" | 1 61/64" | 1 |

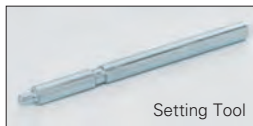
Read safety/installation instruction sheets in packages before use.

Mini Drop-in Anchors

- Carbon steel machine bolt anchor for use in shallow embedment applications.
- Can be used in solid concrete and precast hollow core plank, in addition to post-tensioned concrete slabs and concrete pours over metal deck.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Setting tool scores flange when set to verify proper expansion
- Available in zinc plated finish.



Anchor



Setting Tool

| Mini Drop-In Anchors - Data | 1/4" | 3/8" | 1/2" |
|---------------------------------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 3/8 | 1/2 | 5/8 |
| Max. Tightening Torque (ft-lbs) | 3 | 5 | 10 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 |
| Min. Embedment Depth (in.) | 5/8 | 3/4 | 1 |
| Load Capacity Tension (lbs) * | 350 | 530 | 840 |
| Load Capacity Shear (lbs) * | 415 | 1055 | 1220 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Thread Depth | Box Qty. |
|------------------------------------|----------------|----------|--------------|----------|
| Mini Drop-In Anchor - Steel | | | | |
| 78205153300 | ADM-25 | 1/4" | 3/8" | 100 |
| 78205153302 | ADM-37 | 3/8" | 13/32" | 50 |
| 78205153302 | ADM-50 | 1/2" | 5/8" | 50 |
| Setting Tools | | | | |
| 78205153301 | 6336 | 1/4" | — | 1 |
| 78205153303 | 6323 | 3/8" | — | 1 |
| 78205153305 | 6338 | 3/8" | — | 1 |

Read safety/installation instruction sheets in packages before use.

Hollow Base Drop-in Anchors

- For use in hollow base materials such as hollow concrete block, brick with weep holes, and precast hollow core plank.
- Can also be used in solid base materials.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- Available in Zinc Plated finish.



| Hollow Base Drop-In - Data | 1/4" | 3/8" | 1/2" |
|---------------------------------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 3/8 | 5/8 | 3/4 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 20 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 |
| Thread Length In Cone (in.) | 3/8 | 5/8 | 3/4 |
| Min. Embedment Depth (in.) | 3/4 | 1 | 1 1/2 |
| Load Capacity Tension (lbs) * | 285 | 520 | 1005 |
| Load Capacity Shear (lbs) * | 300 | 640 | 1005 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Overall Length | Sleeve Length | Box Qty. |
|----------------------------|----------------|----------|----------------|---------------|----------|
| Hollow Base Drop-In | | | | | |
| 78205153291 | ADH-25 | 1/4" | 7/8" | 5/8" | 100 |
| 78205153293 | ADH-37 | 3/8" | 1 5/16" | 1 5/16" | 50 |
| 78205153294 | ADH-50 | 1/2" | 1 3/4" | 1 1/4" | 50 |
| Setting Tools | | | | | |
| 78205153292 | 9323 | 1/4" | - | - | 1 |
| 78205153294 | 9343 | 3/8" | - | - | 1 |
| 78205153296 | 9353 | 1/2" | - | - | 1 |

Concrete Screw Bolts

- For use in racking, shelving, material handling, structural anchorage, masonry and food & beverage facilities.
- One piece heavy-duty anchor with a finished hex-head.
- Fits standard fixture hole dimensions in fabricated steel.
- Fast installation and immediate loading reduces downtime.
- For proper performance, screw anchors must be installed with the corresponding bits. The bits have a matched tolerance range designed to provide optimum performance.



| Concrete Screw Bolts - Data | 1/4" | 3/8" |
|--------------------------------------|---------------|---------------|
| ACB Drill Bit Size (in.) | 1/4 | 3/8 |
| Concrete Screw Tolerance Range (in.) | 0.255 - 0.259 | 0.385 - 0.389 |
| Min. Embedment Depth (in.) | 1 | 1 1/2 |
| Load Capacity Tension (lbs) * | 335 | 630 |
| Load Capacity Shear (lbs) * | 520 | 1170 |

* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.

For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

| UPC/Part Number | Catalog Number | Anchor Length | Thread Length | Box Qty. |
|----------------------------------|-------------------|---------------|---------------|----------|
| Screw Type Anchor - Steel | | | | |
| 78205153247 | ACB-25-175 | 1/4" x 1 3/4" | 1 5/8" | 100 |
| 78205153248 | ACB-25-225 | 1/4" x 2 1/4" | 2" | 100 |
| 78205153249 | ACB-25-300 | 1/4" x 3" | 2 3/4" | 100 |
| 78205153250 | ACB-37-175 | 3/8" x 1 3/4" | 1 1/2" | 50 |
| 78205153251 | ACB-37-250 | 3/8" x 2 1/2" | 2 1/4" | 50 |
| 78205153252 | ACB-37-300 | 3/8" x 3" | 2 3/4" | 50 |
| 78205153253 | ACB-37-400 | 3/8" x 4" | 3 3/4" | 50 |

| UPC/Part Number | Catalog Number | Drill Size | Usable Length | Overall Length | Box Qty. |
|---|----------------|------------|---------------|----------------|----------|
| Drill Bits - Straight Shank Type | | | | | |
| 78205153254 | 1372 | 1/4" | 4" | 6" | 1 |
| 78205153256 | 1380 | 3/8" | 4" | 6" | 1 |
| Drill Bits - SDS Type | | | | | |
| 78205153255 | 1314 | 1/4" | 4" | 6" | 1 |
| 78205153257 | 1316 | 3/8" | 4" | 6" | 1 |

Note: Matched tolerance bits must be used for installation.

Read safety/installation instruction sheets in packages before use.

Anchors

Concrete Screws

- Light to medium duty anchor for use in concrete, masonry block and brick base materials.
- Concrete screws are engineered with matched tolerance bits and installation tools to optimize performance.
- High low thread design for greater stability and grip.
- No hole spotting required.
- One drill bit is packaged in each box of concrete screws.
- Blue fluorocarbon coating for corrosion resistance.



Straight Shank Drill Bit



SDS Hex Drill Bit



Hex Head

| Hex Head - Data | 3/16" | 1/4" |
|------------------------------|-------|-------|
| ANSI Drill Bit Size (in.) | 5/32 | 3/16 |
| Fixture Clearance Hole (in.) | 1/4 | 5/16 |
| Head Height (in.) | 7/64 | 9/64 |
| Head Width (in.) | 1/4 | 5/16 |
| Washer O.D. (in.) | 11/32 | 13/32 |
| Washer Thickness (in.) | 1/32 | 1/32 |
| Hex Driver (in.) | 1/4 | 5/16 |



Flat Head

| Flat Head - Data | 3/16" | 1/4" |
|------------------------------|-------|------|
| ANSI Drill Bit Size (in.) | 5/32 | 3/16 |
| Fixture Clearance Hole (in.) | 1/4 | 5/16 |
| Phillips Head O.D. (in.) | 3/8 | 1/2 |
| Phillips Head Height (in.) | 9/64 | 3/16 |
| Phillips Bit Size | 2 | 3 |

| Embedment Depth | Nominal Anchor Dia. / Loading* | | | |
|-----------------|--------------------------------|-------------|--------------|------------|
| | 3/16" Tension | 3/16" Shear | 1/4" Tension | 1/4" Shear |
| 1" | 90 | 175 | 265 | 205 |
| 1 1/4" | 175 | 230 | 335 | 355 |
| 1 3/8" | 215 | 230 | 370 | 385 |
| 1 1/2" | 255 | 230 | 405 | 355 |
| 1 3/4" | 375 | 235 | 435 | 370 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Concrete Screws

| UPC/Part Number | Catalog Number | Size | Box Qty. |
|-----------------|----------------|------|----------|
|-----------------|----------------|------|----------|

Hex Head Concrete Screws

| | | | |
|-------------|--------------------|----------------|-----|
| 78101103342 | ACS-18-125H | 3/16" x 1 1/4" | 100 |
| 78101103343 | ACS-18-175H | 3/16" x 1 3/4" | 100 |
| 78101103344 | ACS-18-225H | 3/16" x 2 1/4" | 100 |
| 78101103346 | ACS-18-275H | 3/16" x 2 3/4" | 100 |
| 78101103347 | ACS-18-325H | 3/16" x 3 1/4" | 100 |
| 78101103348 | ACS-18-375H | 3/16" x 3 3/4" | 100 |
| 78101103349 | ACS-18-400H | 3/16" x 4" | 100 |
| 78101103342 | ACS-25-125H | 1/4" x 1 1/4" | 100 |
| 78101103343 | ACS-25-175H | 1/4" x 1 3/4" | 100 |
| 78101103344 | ACS-25-225H | 1/4" x 2 1/4" | 100 |
| 78101103346 | ACS-25-275H | 1/4" x 2 3/4" | 100 |
| 78101103347 | ACS-25-325H | 1/4" x 3 1/4" | 100 |
| 78101103348 | ACS-25-375H | 1/4" x 3 3/4" | 100 |
| 78101103349 | ACS-25-400H | 1/4" x 4" | 100 |

Flat Head Concrete Screws

| | | | |
|-------------|--------------------|----------------|-----|
| 78205153259 | ACS-18-125F | 3/16" x 1 1/4" | 100 |
| 78205153260 | ACS-18-175F | 3/16" x 1 3/4" | 100 |
| 78205153261 | ACS-18-225F | 3/16" x 2 1/4" | 100 |
| 78205153262 | ACS-18-275F | 3/16" x 2 3/4" | 100 |
| 78205153263 | ACS-25-125F | 1/4" x 1 1/4" | 100 |
| 78205153264 | ACS-25-175F | 1/4" x 1 3/4" | 100 |
| 78205153265 | ACS-25-225F | 1/4" x 2 1/4" | 100 |
| 78205153266 | ACS-25-275F | 1/4" x 2 3/4" | 100 |

| UPC/Part Number | Catalog Number | Bit Size | Usable Length | Box Qty. |
|-----------------|----------------|----------|---------------|----------|
|-----------------|----------------|----------|---------------|----------|

Straight Shank Drill Bits

| | | | | |
|-------------|-------------|----------------|----|---|
| 78205153267 | 2782 | 5/32" x 4 1/2" | 3" | 1 |
| 78205153269 | 2786 | 3/16" x 4 1/2" | 3" | 1 |

SDS Hex Drill Bits

| | | | | |
|-------------|-------------|------------|----|---|
| 78205153268 | 2793 | 5/32" x 5" | 3" | 1 |
| 78205153270 | 2796 | 3/16" x 5" | 3" | 1 |

| UPC/Part Number | Catalog Number | Description | Box Qty. |
|-----------------|----------------|-------------|----------|
|-----------------|----------------|-------------|----------|

Setting Tool

| | | | |
|-------------|-------------|------------------------|-----|
| 78101103453 | 2791 | ConcreteScrew Tool Kit | 100 |
|-------------|-------------|------------------------|-----|

Read safety/installation instruction sheets in packages before use.

Anchors

Wedge Expansion Anchors

- Heavy and medium duty all purpose anchor.
- For use in solid concrete and grout filled block.
- Anchors can be installed through the fixture, no need for hole spotting.
- Interlocking clip wedges prevent anchor spinning during installation.
- Wire hanger hole size $\frac{9}{32}$ " diameter, head height $\frac{3}{4}$ ".
- UL & FM approved.
- Available in Zinc Plated Carbon Steel or Type 304 Stainless Steel.



| Wedge Expansion Anchor - Data | 1/4" | 3/8" | 1/2" | 5/8" |
|---------------------------------|---------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/4 | 3/8 | 1/2 | 5/8 |
| Fixture Clearance Hole (in.) | 5/16 | 7/16 | 9/16 | 11/16 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 |
| Washer O.D. (in.) | 5/8 | 13/16 | 1 1/16 | 1 3/4 |
| Wrench Size | 7/16 | 9/16 | 3/4 | 15/16 |
| Max. Tightening Torque (ft-lbs) | 8 | 28 | 60 | 90 |
| Min. Embedment Depth (in.) | 1 1/8 | 1 5/8 | 2 1/4 | 2 3/4 |
| Load Capacity Tension (lbs) * | 360 | 760 | 1390 | 2075 |
| Load Capacity Shear (lbs) * | 405 | 940 | 1700 | 2975 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.

| Wire Hanger Wedge Anchor - Data | 1/4" |
|---------------------------------|-------|
| ANSI Drill Bit Size (in.) | 1/4 |
| Min. Embedment Depth (in.) | 1 1/8 |
| Head Height (in.) | 3/4 |
| Load Capacity Tension (lbs) * | 360 |
| Load Capacity Shear (lbs) * | 405 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Size | Hole Size | Box Qty. |
|--------------------|---------------------|-----------|-----------|----------|
| Wire Hanger | | | | |
| 78101103106 | AWA-25-200WH | 1/4" x 2" | 9/32" | 100 |

Wedge Expansion Anchors

| UPC/Part Number | Catalog Number | Size | Thread Length | Box Qty. |
|---------------------------------------|----------------------|---------------|---------------|----------|
| Wedge Anchor | | | | |
| 78101103068 | AWA-25-175 | 1/4" x 1 3/4" | 3/4" | 100 |
| 78101103069 | AWA-25-225 | 1/4" x 2 1/4" | 1 1/4" | 100 |
| 78101103070 | AWA-25-325 | 1/4" x 3 1/4" | 2 1/4" | 100 |
| 78101103071 | AWA-37-225 | 3/8" x 2 1/4" | 1 1/4" | 50 |
| 78101103072 | AWA-37-275 | 3/8" x 2 3/4" | 1 5/8" | 50 |
| 78101103073 | AWA-37-300 | 3/8" x 3" | 1 7/8" | 50 |
| 78205153364 | AWA-37-350 | 3/8" x 3 1/2" | 2 3/8" | 50 |
| 78101103074 | AWA-37-375 | 3/8" x 3 3/4" | 2 5/8" | 50 |
| 78101103075 | AWA-37-500 | 3/8" x 5" | 3 7/8" | 50 |
| 78205153366 | AWA-50-275 | 1/2" x 2 3/4" | 1 3/8" | 50 |
| 78101103077 | AWA-50-375 | 1/2" x 3 3/4" | 2 3/8" | 50 |
| 78205145636 | AWA-50-450 | 1/2" x 4 1/2" | 3 1/8" | 50 |
| 78101103079 | AWA-50-550 | 1/2" x 5 1/2" | 4 1/8" | 50 |
| 78101103080 | AWA-50-700 | 1/2" x 7" | 5 5/8" | 25 |
| 78101103081 | AWA-62-275 | 5/8" x 3 1/2" | 2" | 25 |
| 78101103082 | AWA-62-375 | 5/8" x 4 1/2" | 3" | 25 |
| 78101103083 | AWA-62-450 | 5/8" x 5" | 3 1/2" | 25 |
| 78101103084 | AWA-62-550 | 5/8" x 6" | 4 1/2" | 25 |
| 78101103085 | AWA-62-700 | 5/8" x 7" | 5 1/2" | 25 |
| Wedge Anchor - Stainless Steel | | | | |
| 78101103146 | AWA-25-175SS4 | 1/4" x 1 3/4" | 3/4" | 100 |
| 78101103147 | AWA-25-225SS4 | 1/4" x 2 1/4" | 1 1/4" | 100 |
| 78101103148 | AWA-25-325SS4 | 1/4" x 3 1/4" | 2 1/4" | 100 |
| 78101103149 | AWA-37-225SS4 | 3/8" x 2 1/4" | 1 1/4" | 50 |
| 78101103150 | AWA-37-275SS4 | 3/8" x 2 3/4" | 1 5/8" | 50 |
| 7810110151 | AWA-37-300SS4 | 3/8" x 3" | 1 7/8" | 50 |
| 78205153365 | AWA-37-350SS4 | 3/8" x 3 1/2" | 2 3/8" | 50 |
| 78101103152 | AWA-37-375SS4 | 3/8" x 3 3/4" | 2 5/8" | 50 |
| 78101103153 | AWA-37-500SS4 | 3/8" x 5" | 3 7/8" | 50 |
| 78101103154 | AWA-50-275SS4 | 1/2" x 2 3/4" | 1 3/8" | 50 |
| 78101103155 | AWA-50-375SS4 | 1/2" x 3 3/4" | 2 3/8" | 50 |
| 78205153367 | AWA-50-450SS4 | 1/2" x 4 1/2" | 3 1/8" | 50 |
| 78101103157 | AWA-50-550SS4 | 1/2" x 5 1/2" | 4 1/8" | 50 |
| 78205153368 | AWA-50-700SS4 | 1/2" x 7" | 5 5/8" | 25 |
| 78205153369 | AWA-62-275SS4 | 5/8" x 3 1/2" | 2" | 25 |
| 78205153370 | AWA-62-375SS4 | 5/8" x 4 1/2" | 3" | 25 |
| 78205153779 | AWA-62-450SS4 | 5/8" x 5" | 3 1/2" | 25 |
| 78205153371 | AWA-62-550SS4 | 5/8" x 6" | 4 1/2" | 25 |
| 78205143044 | AWA-62-700SS4 | 5/8" x 7" | 5 1/2" | 25 |

Read safety/installation instruction sheets in packages before use.

Seismic Wedge Anchors

- Fully threaded, torque-controlled, wedge anchor which is designed for consistent performance in cracked and uncracked concrete.
- For use in concrete, structural sand lightweight concrete, and concrete over metal deck.
- Nominal drill bit size is the same as the anchor diameter.
- ICC-ES listed, ESR-2502, Category 1
- Zinc plated carbon steel body with stainless steel expansion clip from premium performance.
- Qualified for seismic and wind loading.



| Seismic Wedge Anchor - Data | 3/8" | 1/2" | 5/8" | 3/4" |
|----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| ANSI Drill Bit Size (in.) | 3/8 | 1/2 | 5/8 | 3/4 |
| Fixture Clearance Hole (in.) | 7/16 | 9/16 | 11/16 | 13/16 |
| Minimum Hole Depth (in.) | 2 ⁵ / ₈ | 2 ³ / ₄ | 4 ¹ / ₄ | 5 |
| Minimum Concrete Thickness (in.) | 4 | 4 ¹ / ₂ | 5 ³ / ₄ | 7 |
| Max. Tightening Torque (ft-lbs) | 20 | 40 | 60 | 110 |
| Min. Embedment Depth (in.) | 2 ³ / ₈ | 2 ¹ / ₂ | 3 ⁷ / ₈ | 4 ¹ / ₂ |

For loading information, see ICC-ES ESR-2502.

Seismic Wedge Anchors

| UPC/Part Number | Catalog Number | Size | Thread Length | Box Qty. |
|-----------------------------|--------------------|---------------|---------------|----------|
| Seismic Wedge Anchor | | | | |
| 78205153398 | AWSD-37-300 | 3/8" X 3" | 1 3/4" | 50 |
| 78205153399 | AWSD-37-350 | 3/8" X 3 1/2" | 2 1/4" | 50 |
| 78205153400 | AWSD-37-375 | 3/8" X 3 3/4" | 2 1/2" | 50 |
| 78205153401 | AWSD-37-500 | 3/8" X 5" | 3 3/4" | 50 |
| 78205153402 | AWSD-50-375 | 1/2" X 3 3/4" | 2 1/8" | 50 |
| 78205153403 | AWSD-50-450 | 1/2" X 4 1/2" | 2 7/8" | 50 |
| 78205153404 | AWSD-50-550 | 1/2" X 5 1/2" | 3 7/8" | 50 |
| 78205153405 | AWSD-50-700 | 1/2" X 7" | 5 3/8" | 50 |
| 78205153406 | AWSD-62-475 | 5/8" X 4 3/4" | 2 7/8" | 25 |
| 78205153407 | AWSD-62-500 | 5/8" X 5" | 3 1/8" | 25 |
| 78205153408 | AWSD-62-600 | 5/8" X 6" | 4 1/8" | 25 |
| 78205153409 | AWSD-62-700 | 5/8" X 7" | 5 1/8" | 25 |
| 78205153410 | AWSD-75-550 | 3/4" X 5 1/2" | 3 1/4" | 20 |
| 78205153411 | AWSD-75-625 | 3/4" X 6 1/4" | 4" | 20 |
| 78205153425 | AWSD-75-700 | 3/4" X 7" | 4 3/4" | 20 |

Read safety/installation instruction sheets in packages before use.

Anchors

Drive Anchor

- One-piece, tamper-proof vibration resistant anchor for use in concrete.
- Anchor is formed with an 's' shaped configuration at the working end of the anchor to create an expansion mechanism.
- Anchor is pre-expanded so no secondary tightening operation is required.
- FM approved.
- Made of Zinc Plated carbon steel.



| Mushroom Head - Data | 3/16" | 1/4" |
|--------------------------------|-------|------|
| ANSI Drill Bit Size (in.) | 3/16 | 1/4 |
| Fixture Clearance Hole (in.) | 1/4 | 5/16 |
| Head Height (in.) | 7/64 | 7/64 |
| Head Size O.D. (in.) | 7/16 | 1/2 |
| Min. Embedment Depth (in.) | 7/8 | 7/8 |
| Load Capacity Tension (lbs.) * | 215 | 235 |
| Load Capacity Shear (lbs.) * | 330 | 470 |

| Rod Hanger - Data | 1/4" | 3/8" |
|--------------------------------|---------|---------|
| ANSI Drill Bit Size (in.) | 3/16 | 1/4 |
| UNC Thread Size | 1/4"-20 | 3/8"-16 |
| Head Height (in.) | 1/2 | 5/8 |
| Head Size O.D. (in.) | 13/32 | 35/64 |
| Min. Embedment Depth (in.) | 1 1/4 | 1 3/4 |
| Load Capacity Tension (lbs.) * | 315 | 500 |
| Load Capacity Shear (lbs.) * | 245 | 525 |



| Wire Hanger - Data | 3/16" | 1/4" |
|-------------------------------|-------------|-------------|
| ANSI Drill Bit Size (in.) | 3/16 | 1/4 |
| Tie-Wire Hole (in.) | 3/16 | 9/32 |
| Head Height (in.) | 37/64 | 41/64 |
| Head Width (in.) | 9/64 x 7/16 | 3/16 x 9/16 |
| Min. Embedment Depth (in.) | 1 1/8 | 1 1/8 |
| Load Capacity Tension (lbs.)* | 265 | 290 |
| Load Capacity Shear (lbs.)* | 240 | 330 |



* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Read safety/installation instruction sheets in packages before use.

Drive Anchors

| UPC/Part Number | Catalog Number | Size | Box Qty. |
|----------------------|-------------------|----------------|----------|
| Mushroom Head | | | |
| 78205153271 | ADA-18-100 | 3/16" x 1" | 100 |
| 78205153272 | ADA-18-125 | 3/16" x 1 1/4" | 100 |
| 78205153273 | ADA-18-150 | 3/16" x 1 1/2" | 100 |
| 78205153274 | ADA-18-200 | 3/16" x 2" | 100 |
| 78205153275 | ADA-18-250 | 3/16" x 2 1/2" | 100 |
| 78205153276 | ADA-18-300 | 3/16" x 3" | 100 |
| 78205153278 | ADA-25-100 | 1/4" x 1" | 100 |
| 78205153279 | ADA-25-125 | 1/4" x 1 1/4" | 100 |
| 78205153280 | ADA-25-150 | 1/4" x 1 1/2" | 100 |
| 78205153281 | ADA-25-200 | 1/4" x 2" | 100 |
| 78205153282 | ADA-25-250 | 1/4" x 2 1/2" | 100 |
| 78205153283 | ADA-25-300 | 1/4" x 3" | 100 |

| UPC/Part Number | Catalog Number | Head Size | Box Qty. |
|--------------------|-----------------|-----------|----------|
| Rod Hanger | | | |
| 78205153284 | ADA-25RH | 1/4" | 100 |
| 78205153286 | ADA-37RH | 3/8" | 100 |
| Wire Hanger | | | |
| 78205153277 | ADA-18WH | 3/16" | 100 |
| 78205153285 | ADA-25WH | 1/4" | 100 |

Read safety/installation instruction sheets in packages before use.

Anchors

Sleeve Type Expansion Anchors

- For use in concrete and masonry substrates.
- Suitable for solid and hollow core materials.
- Fits standard fixture holes - no need to undersize anchors for proper fit.
- Sleeve has 360° contact area and reduces concrete stress.
- UL & FM approved.
- Available in Zinc Plated Steel or Type 304 Stainless Steel.



Hex Nut (HN)
Style



Acorn Nut (AN)
Style



Slotted Round
Head (RS) Style

| Sleeve Type Expansion - Data | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
|-------------------------------|--------|----------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 |
| Fixture Clearance Hole (in.) | 5/16 | 7/16 | 9/16 | 11/16 | 15/16 |
| Plow Bolt Size (UNC) | #10-24 | 5/16"-18 | 3/8"-16 | 1/2"-13 | 5/8"-11 |
| Min. Embedment Depth (in.) | 5/8 | 15/8 | 2 1/4 | 2 1/4 | 2 1/4 |
| Load Capacity Tension (lbs) * | 155 | 670 | 1255 | 1465 | 2105 |
| Load Capacity Shear (lbs) * | 300 | 610 | 1055 | 1800 | 2900 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.



Rod Hanger
(RH) Style



Wire Hanger
(WH) Style

| Sleeve Type Expansion - Data | Hanger Rod | | | Wire Hanger |
|-------------------------------|------------|----------|---------|-------------|
| | 1/4" | 3/8" | 1/2" | 5/16" |
| ANSI Drill Bit Size (in.) | 1/4 | 3/8 | 1/2 | 5/16 |
| Fixture Clearance Hole (in.) | NA | NA | NA | 1/4 |
| Plow Bolt Size (UNC) | #10-24 | 5/16"-18 | 3/8"-16 | 1/4"-20 |
| Coupling Height (in.) | 7/8 | 1 | 1 1/4 | NA |
| Min. Embedment Depth (in.) | 5/8 | 15/8 | 2 1/4 | 1 1/2 |
| Load Capacity Tension (lbs) * | 155 | 670 | 1255 | 520 |
| Load Capacity Shear (lbs) * | 300 | 610 | 1055 | 380 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading go to www.cooperblineline.com.

Sleeve Type Expansion Anchors

| UPC/Part Number | Catalog Number | Size | Thread Length | Box Qty. |
|----------------------|---------------------|---------------|---------------|----------|
| Hex Nut Style | | | | |
| 78101102995 | ASA-37-187HN | 3/8" x 1 7/8" | 1 5/8" | 50 |
| 78101102996 | ASA-37-300HN | 3/8" x 3" | 1 5/8" | 50 |
| 78205153400 | ASA-37-400HN | 3/8" x 4" | 1 5/8" | 50 |
| 78101102997 | ASA-50-225HN | 1/2" x 2 1/4" | 2 1/8" | 25 |
| 78101102998 | ASA-50-300HN | 1/2" x 3" | 2 1/4" | 25 |
| 78101102999 | ASA-50-400HN | 1/2" x 4" | 2 1/4" | 25 |
| 78205153351 | ASA-50-525HN | 1/2" x 5 1/4" | 2 1/4" | 25 |
| 78101103002 | ASA-50-600HN | 1/2" x 6" | 2 1/4" | 10 |
| 78101103003 | ASA-62-225HN | 5/8" x 2 1/4" | 2 1/8" | 25 |
| 78101103004 | ASA-62-300HN | 5/8" x 3" | 2 3/4" | 25 |
| 78101103005 | ASA-62-425HN | 5/8" x 4 1/4" | 2 3/4" | 10 |
| 78101103006 | ASA-62-600HN | 5/8" x 6" | 2 3/4" | 10 |
| 78101103007 | ASA-75-250HN | 3/4" x 2 1/2" | 2 1/8" | 10 |
| 78101103008 | ASA-75-425HN | 3/4" x 4 1/4" | 3 3/8" | 10 |
| 78101103009 | ASA-75-625HN | 3/4" x 6 1/4" | 3 3/8" | 10 |

Hex Nut Style - Stainless Steel

| | | | | |
|-------------|------------------------|---------------|--------|----|
| 78205153343 | ASA-37-187HNSS4 | 3/8" x 1 7/8" | 1 5/8" | 50 |
| 78205153345 | ASA-37-300HNSS4 | 3/8" x 3" | 1 5/8" | 50 |
| 78205153347 | ASA-50-225HNSS4 | 1/2" x 2 1/4" | 2 1/8" | 25 |
| 78205153349 | ASA-50-300HNSS4 | 1/2" x 3" | 2 1/4" | 25 |
| 78205153350 | ASA-50-400HNSS4 | 1/2" x 4" | 2 1/4" | 25 |
| 78205153352 | ASA-62-425HNSS4 | 5/8" x 4 1/4" | 2 3/4" | 10 |
| 78205153353 | ASA-75-400HNSS4 | 3/4" x 4" | 3 3/8" | 10 |

Acorn Nut Style

| | | | | |
|-------------|---------------------|---------------|--------|-----|
| 78205153341 | ASA-25-62AN | 1/4" x 5/8" | 1/2" | 100 |
| 78101102991 | ASA-25-137AN | 1/4" x 1 3/8" | 1 1/8" | 100 |
| 78101102992 | ASA-25-225AN | 1/4" x 2 1/4" | 1 1/8" | 100 |

Slotted Round Head Style

| | | | | |
|-------------|---------------------|---------------|--------|-----|
| 78205153338 | ASA-25-112RS | 1/4" x 1 1/8" | 1" | 100 |
| 78205153340 | ASA-25-200RS | 1/4" x 2" | 1 1/8" | 100 |

| UPC/Part Number | Catalog Number | Size | Drill Diameter | Box Qty. |
|--------------------|---------------------|----------------|----------------|----------|
| Rod Hanger | | | | |
| 78205153339 | ASA-25-150RH | 1/4" x 1 1/2" | 5/16" | 50 |
| 78205153344 | ASA-37-187RH | 3/8" x 1 7/8" | 3/8" | 50 |
| 78205153348 | ASA-50-225RH | 1/2" x 2 1/4" | 1/2" | 25 |
| Wire Hanger | | | | |
| 78205153342 | ASA-31-150WH | 5/16" x 1 1/2" | 5/16" | 100 |

Read safety/installation instruction sheets in packages before use.

Anchors

Double Expansion Anchors

- For use in concrete, block, brick or stone.
- Double expansion anchor is particularly suited for base materials of questionable strength (job site tests are recommended).
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



| Double Expansion - Data | 1/4" | 3/8" | 1/2" | 5/8" |
|---------------------------------|---------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/2 | 3/4 | 7/8 | 1 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 20 | 30 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 |
| Thread Length In Cone (in.) | 1/2 | 5/8 | 3/4 | 7/8 |
| Min. Embedment Depth (in.) | 1 1/4 | 1 3/4 | 2 1/4 | 2 1/2 |
| Load Capacity Tension (lbs) * | 415 | 875 | 1625 | 1750 |
| Load Capacity Shear (lbs) * | 405 | 1000 | 1540 | 2855 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Anchor Length | Box Qty. |
|-----------------|----------------|----------|---------------|----------|
| 78101103251 | ADE-25 | 1/4" | 1 3/8" | 50 |
| 78101103253 | ADE-37 | 3/8" | 2" | 50 |
| 78101103254 | ADE-50 | 1/2" | 2 1/2" | 25 |
| 78101103256 | ADE-62 | 5/8" | 2 3/4" | 25 |

Single Expansion Anchors

- For use in concrete, block, brick or stone.
- Recommended for floor and wall attachments.
- Not recommended for overhead applications.
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



| Single Expansion - Data | 1/4" | 3/8" | 1/2" | 5/8" |
|---------------------------------|---------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/2 | 3/4 | 7/8 | 1 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 20 | 30 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 |
| Thread Length In Cone (in.) | 5/16 | 5/16 | 7/16 | 5/8 |
| Min. Embedment Depth (in.) | 1 3/8 | 1 5/8 | 2 1/2 | 2 3/4 |
| Load Capacity Tension (lbs) * | 500 | 725 | 1225 | 2050 |
| Load Capacity Shear (lbs) * | 405 | 950 | 1540 | 2855 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Size | Anchor Length | Box Qty. |
|--------------------------------|----------------|----------|---------------|----------|
| Single Expansion Anchor | | | | |
| 78101103245 | ASE-25 | 1/4" | 1 5/16" | 50 |
| 78101103247 | ASE-37 | 3/8" | 1 1/2" | 50 |
| 78101103248 | ASE-50 | 1/2" | 2 1/16" | 25 |
| 78101103249 | ASE-62 | 5/8" | 2 5/8" | 25 |

Read safety/installation instruction sheets in packages before use.

Anchors

Wood Knocker™† Anchors

- Wood-Knocker™ concrete inserts are installed onto wooden forms used to support newly poured concrete floor slabs, roof slabs or walls.
- When the forms are stripped, the color-coded flange is visibly embedded in the concrete surface.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



| Wood Knocker™ - Data | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
|-------------------------------|---------|---------|---------|---------|---------|
| Insert Thread Length (in.) | 3/8 | 5/8 | 11/16 | 15/16 | 1 1/8 |
| Plastic Flange Diameter (in.) | 1 3/8 | 1 3/8 | 1 3/8 | 1 5/8 | 1 5/8 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 |
| Overall Length (in.) | 1 7/8 | 1 7/8 | 1 7/8 | 1 7/8 | 1 7/8 |
| Min. Insert Spacing (in.) | 9 | 9 | 9 | 12 | 12 |
| Min. End Distance (in.) | 6 | 6 | 6 | 9 | 9 |
| Load Capacity Tension (lbs) * | 930 | 1200 | 1200 | 1160 | 1160 |
| Load Capacity Shear (lbs) * | 370 | 1330 | 1840 | 2800 | 2800 |

* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum embedment depth is 2".

| UPC/Part Number | Catalog Number | Rod Diameter | Color | Box Qty. |
|---------------------|----------------|--------------|--------|----------|
| Wood Knocker | | | | |
| 78205131147 | ACPW-25 | 1/4" | Brown | 100 |
| 78205131149 | ACPW-38 | 3/8" | Green | 100 |
| 78205131151 | ACPW-50 | 1/2" | Yellow | 100 |
| 78205131152 | ACPW-62 | 5/8" | Red | 50 |
| 78205131153 | ACPW-75 | 3/4" | Purple | 50 |

† Wood Knocker™ is a registered trademark used by Power® Fasteners, Inc.

Bang-It™† Anchors

- Bang-It™ concrete inserts are designed for installation in and through metal composite deck used to support newly poured concrete floors or roof slabs.
- After installation, the protective sleeve of the insert protrudes below the surface of the deck, allowing overhead attachment of threaded rod.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



| Bang-It™ - Data | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" |
|---------------------------------|---------|---------|---------|---------|---------|---------|
| Metal Hole Saw Diameter (in.) | 13/16 | 13/16 | 13/16 | 13/16 | 13/16 | 13/16 |
| Drilling Speed (rpm) | 700-900 | 700-900 | 700-900 | 500-700 | 500-700 | 500-700 |
| Insert Thread Length (in.) | 3/8 | 5/8 | 11/16 | 15/16 | 1 1/8 | 1 5/16 |
| Length of Sleeve (in.) | 3 3/8 | 3 3/8 | 3 3/8 | 3 3/8 | 3 3/8 | 3 3/8 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 | 5/8"-11 | 3/4"-10 | 7/8"-9 |
| Embedment Depth (in.) | 2 | 2 | 2 | 2 | 2 | 2 |
| Upper Deck Tension Load (lbs) * | 835 | 1435 | 1775 | 2200 | 2200 | 2200 |
| Lower Deck Tension Load (lbs) * | 835 | 1115 | 1115 | 1115 | 1115 | 1115 |
| Upper Deck Shear Load (lbs) * | 620 | 620 | 620 | 740 | 740 | 740 |
| Lower Deck Shear Load (lbs) * | 625 | 840 | 840 | 840 | 840 | 840 |

* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum insert spacing of 12", minimum end spacing 12".

| UPC/Part Number | Catalog Number | Rod Diameter | Color | Box Qty. |
|-----------------|----------------|--------------|--------|----------|
| Bang-It™ | | | | |
| 78205131154 | ACPD-25 | 1/4" | Brown | 100 |
| 78205131156 | ACPD-38 | 3/8" | Green | 100 |
| 78205131157 | ACPD-50 | 1/2" | Yellow | 100 |
| 78205131158 | ACPD-62 | 5/8" | Red | 50 |
| 78205131166 | ACPD-75 | 3/4" | Purple | 50 |
| 78205153258 | ACPD-87 | 7/8" | Black | 50 |

Bang-It™ Hole Saws

| | | | |
|-------------|--------------------|--|---|
| 78205131169 | ACPD-HS813 | 13/16" Carbide Hole Saw for 1/4", 3/8", 1/2" | 1 |
| 78205131171 | ACPD-HS1188 | 13/16" Carbide Hole Saw for 5/8", 3/4", 7/8" | 1 |

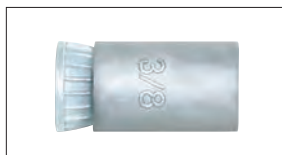
† Bang-It™ is a registered trademark used by Power® Fasteners, Inc.

Read safety/installation instruction sheets in packages before use.

Anchors

Machine Screw Anchors

- For use in concrete, block, brick or stone.
- Not recommended for use in overhead applications.
- Readily accepts machine bolts.
- Internally threaded anchor for easy removability and service work.
- Anchor installation requires shallow embedment.
- Made of Zamac Alloy material.



| Machine Screw Anchor - Data | 1/4" | 3/8" | 1/2" |
|---------------------------------|---------|---------|---------|
| ANSI Drill Bit Size (in.) | 1/2 | 3/4 | 7/8 |
| Max. Tightening Torque (ft-lbs) | 5 | 10 | 15 |
| Thread Size (UNC) | 1/4"-20 | 3/8"-16 | 1/2"-13 |
| Min. Embedment Depth (in.) | 7/8 | 1 1/4 | 1 1/2 |
| Load Capacity Tension (lbs) * | 585 | 775 | 1095 |
| Load Capacity Shear (lbs) * | 355 | 825 | 1135 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Rod Diameter | Box Qty. |
|-----------------------------|----------------|--------------|----------|
| Machine Screw Anchor | | | |
| 78101103239 | AMS-25 | 1/4" | 100 |
| 78101103242 | AMS-37 | 3/8" | 50 |
| 78101103243 | AMS-50 | 1/2" | 50 |
| Setting Tool | | | |
| 78205109765 | 9221 | 1/4" | 1 |
| 78205109767 | 9231 | 3/8" | 1 |
| 78205109768 | 9241 | 1/2" | 1 |

Self-Tapping Machine Screw Anchors

- For use in normal-weight concrete, structural sand lightweight concrete and concrete over metal deck.
- Anchor design allows for shallow embedment and mechanically interlocks with base material.
- Internally threaded anchor for easy adjustment and removability of threaded rod or bolt.
- Fast anchor installation with a powered impact wrench.
- Suitable for overhead applications such as suspending cable tray, strut, pipe hangers and conduit.
- FM Approved.
- ICC-ES listed, ESR-2272
- Made of Zinc Plated carbon steel.
- Setting tool included.



| Self-Tapping Machine Screw - Data | 3/8" |
|-----------------------------------|-------------------------------|
| ANSI Drill Bit Size (in.) | 1/2 |
| Min. Concrete Thickness (in.) | 4 |
| Max. Tightening Torque (ft-lbs) | 8 |
| Min. Embedment Depth (in.) | 1 ⁵ / ₈ |
| Load Capacity Tension (lbs) * | 540 |
| Load Capacity Shear (lbs) * | 825 |

* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.
For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

| UPC/Part Number | Catalog Number | Size | Thread Depth | Box Qty. |
|--|----------------|------|----------------------------------|----------|
| Self-Tapping Machine Screw Anchor | | | | |
| 78205153362 | ATM-37 | 3/8" | 1 ¹ / ₁₆ " | 50 |
| Tool | | | | |
| 78205153363 | 6407 SD | 3/8" | -- | 1 |

Read safety/installation instruction sheets in packages before use.

Anchors

Drive Nail Anchors

- For use in concrete, block or brick.
- Anchor is recommended for light duty, tamper-proof applications.
- Not recommended for overhead applications.
- Made of Zamac Alloy material.



| Drive Nail - Data | 3/16" | 1/4" |
|-------------------------------|-------|-------|
| ANSI Drill Bit Size (in.) | 3/16 | 1/4 |
| Fixture Clearance Hole (in.) | 1/4 | 5/16 |
| Head Height (in.) | 7/64 | 9/64 |
| Head Size, O.D. (in.) | 13/32 | 35/64 |
| Min. Embedment Depth (in.) | 3/4 | 5/8 |
| Load Capacity Tension (lbs) * | 125 | 150 |
| Load Capacity Shear (lbs) * | 175 | 205 |

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Size | Box Qty. |
|--------------------------|-------------------|---------------|----------|
| Drive Nail Anchor | | | |
| 78101102964 | ADN-18-87 | 3/16" x 7/8" | 100 |
| 78101102965 | ADN-25-75 | 1/4" x 3/4" | 100 |
| 78101102966 | ADN-25-100 | 1/4" x 1" | 100 |
| 78101102967 | ADN-25-125 | 1/4" x 1 1/4" | 100 |
| 78101102968 | ADN-25-150 | 1/4" x 1 1/2" | 100 |
| 78101102969 | ADN-25-200 | 1/4" x 2" | 100 |
| 78205153306 | ADN-25-300 | 1/4" x 3" | 100 |

Read safety/installation instruction sheets in packages before use.

Toggle Bolts

- The toggle bolt is a spring wing type hollow wall anchor designed for use in block, wallboard and other hollow base materials.
- Anchor is a two-part assembly consisting of a machine screw and a spring wing toggle.
- Adjustable to accommodate various wall thicknesses up to 2¹/₂".
- Combo round head bolt is provided.
- Made of zinc plated carbon steel.



| Toggle Bolt - Data | 3/16" | | 1/4" | | 3/8" | |
|---------------------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|
| | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) |
| 3/8" Wallboard | 35 | 35 | 55 | 55 | 60 | 65 |
| 1/2" Wallboard | 45 | 50 | 60 | 60 | 65 | 75 |
| 5/8" Wallboard | 60 | 60 | 65 | 65 | 75 | 80 |
| 3/4" Wallboard | 75 | 70 | 80 | 75 | 85 | 90 |
| Hollow Concrete Masonry * | 70 | 70 | 70 | 120 | 195 | 140 |

Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

| UPC/Part Number | Catalog Number | Drill Diameter | Size | Box Qty. |
|--------------------|-------------------|----------------|------------|----------|
| Toggle Bolt | | | | |
| 78205153354 | ATB-18-300 | 1/2" | 3/16" x 3" | 50 |
| 78205153355 | ATB-18-400 | 1/2" | 3/16" x 4" | 50 |
| 78205153356 | ATB-25-300 | 5/8" | 1/4" x 3" | 50 |
| 78205153357 | ATB-25-400 | 5/8" | 1/4" x 4" | 50 |
| 78205153358 | ATB-37-300 | 7/8" | 3/8" x 3" | 25 |
| 78205153359 | ATB-37-400 | 7/8" | 3/8" x 4" | 25 |

Read safety/installation instruction sheets in packages before use.

Anchors

Wall Screws

- One-piece, all steel anchor with high-profile threads for easy fastening into wallboard and other masonry base materials.
- Deep cutting, corkscrew-like threads provide for smooth entry and a strong hold.
- No pre-drilling is required when fastening into wallboard or wood.
- Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled $\frac{3}{16}$ " ANSI hole.
- Installed with a No. 8 drill bit or No. 2 Phillips driver.
- Made of case hardened carbon steel with chrome finish.



| Wall Screw - Data | Minimum Embedment Depth | Load Cap. Tension (lbs.) * | Load Cap. Shear (lbs.) * |
|-------------------------------|-------------------------|----------------------------|--------------------------|
| Concrete * | $\frac{3}{4}$ " | 90 | 260 |
| $\frac{1}{2}$ " Wallboard | NA | 20 | 60 |
| $\frac{5}{8}$ " Wallboard | NA | 35 | 90 |
| $\frac{3}{4}$ " Plywood | NA | 65 | 150 |
| Grout-Filled Concrete Masonry | 1" | 55 | 165 |
| Hollow Concrete Masonry | 1" | 60 | 165 |
| Brick Masonry | $\frac{3}{4}$ " | 70 | 120 |

* Based on concrete compression strength of 4000 psi. Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading contact factory.

| UPC/Part Number | Catalog Number | Size | Head Type | Box Qty. |
|-------------------|----------------|-------------------------------------|-----------|----------|
| Wall Screw | | | | |
| 78205153372 | AWS-CH | $\frac{3}{16}$ " x $1\frac{1}{4}$ " | Combo | 100 |
| 78205153373 | AWS-OH | $\frac{3}{16}$ " x $1\frac{1}{4}$ " | Oval | 100 |
| 78205153374 | AWS-PH | $\frac{3}{16}$ " x $1\frac{1}{4}$ " | Pan | 100 |

Plastic Screw Anchors

- One-piece anchor designed for light duty applications in wallboard, concrete and masonry.
- Works in hollow or solid base materials.
- Suitable for screws with various thread sizes and styles - screws may be installed with a screw gun.



| Plastic Screw Anchor - Data | APS-4 | APS-6 | APS-8 |
|-----------------------------------|--------|--------|---------|
| Drill Diameter (in.) | 3/16 | 1/4 | 5/16 |
| Screw Size Range | #4-#10 | #6-#12 | #8-#14 |
| Min. Thread Length (in.) | 1 3/16 | 1 3/8 | 1 13/16 |
| Min. Hole Diameter (in.) | 1 3/8 | 1 9/16 | 2 |
| Min. Wall Thickness (in.) | 1/4 | 3/8 | 1/2 |
| Min. Embedded Thread Length (in.) | 1 7/8 | 2 | 2 9/16 |
| Load Capacity Tension (lbs) * | 18 | 20 | 22 |
| Load Capacity Shear (lbs) * | 32 | 40 | 45 |

* Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Screw Size | Box Qty. |
|------------------------------|----------------|------------|----------|
| Plastic Screw Anchors | | | |
| 78205153315 | APS-4 | #4 - #10 | 100 |
| 78205153316 | APS-6 | #6 - #12 | 100 |
| 78205153319 | APS-8 | #8 - #14 | 100 |

Anchors

Plastic Hollow Wall Anchors

- Heavy duty hollow wall anchor designed for use in plaster, wallboard, concrete block, or hollow tile.
- Pre-assembled anchor consisting of a carbon steel wing and a locking cap/ratchet leg assembly molded from engineered plastic.
- When compared to traditional toggles, this anchor can be installed in a smaller hole and does not require a fixture or screw to set it.
- Adjustable to accommodate various wall thickness up to 2 1/2".



| Plastic Hollow Wall - Data | 3/16" | 1/4" | 3/8" | 1/2" |
|---------------------------------|----------|---------|---------|---------|
| Thread Size (UNC) | 3/16"-24 | 1/4"-20 | 3/8"-16 | 1/2"-13 |
| Max. Tightening Torque (ft-lbs) | 5 | 5 | 5 | 5 |
| Minimum Clearance (in.) | 1 7/8" | 1 7/8" | 1 7/8" | 1 7/8" |

| Plastic Hollow Wall - Data | 3/16" | | 1/4" | | 3/8" | | 1/2" | |
|----------------------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) |
| 3/8" Wallboard | 30 | 60 | 35 | 70 | 35 | 70 | 35 | 75 |
| 1/2" Wallboard | 35 | 70 | 35 | 75 | 40 | 75 | 40 | 90 |
| 5/8" Wallboard | 50 | 95 | 55 | 105 | 55 | 105 | 55 | 110 |
| 3/4" Wallboard | 50 | 110 | 55 | 120 | 60 | 120 | 60 | 120 |
| Hollow Concrete Masonry * | 215 | 150 | 270 | 285 | 285 | 465 | 345 | 595 |

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

| UPC/Part Number | Catalog Number | Anchor Size | Drill Dia. | Wall Thickness | Box Qty. |
|-----------------|----------------|-------------|------------|----------------|----------|
| 78205153311 | APH-18 | 3/16" x 4" | 1/2" | 3/8" - 2 1/2" | 50 |
| 78205153312 | APH-25 | 1/4" x 4" | 1/2" | 3/8" - 2 1/2" | 50 |
| 78205153313 | APH-37 | 3/8" x 4" | 3/4" | 3/8" - 2 1/2" | 25 |
| 78205153314 | APH-50 | 1/2" x 4" | 3/4" | 3/8" - 2 1/2" | 25 |

Self-Drilling Wallboard Anchors

- One-piece self drilling anchor designed for use in hollow wallboard for light to medium duty loads.
- Ideal for mounting electrical fixtures, phone systems, and miscellaneous hardware.
- APD/AZD designed for use in $\frac{3}{8}$ " to 1" wallboard.
- APDM/AZDM designed for use in $\frac{3}{8}$ " to $\frac{5}{8}$ " wallboard.
- Kit includes 50 anchors, 50 screws and #2 Phillips Drive Bit.
- Available in engineered Nylon and Zamac Alloy.



| Self-Drilling Wallboard Anchor - Data | APD/AZD | APDM/AZDM |
|---------------------------------------|---------------------------------|--------------------------------|
| Anchor Length (in.) | 1 ¹¹ / ₁₆ | 1 ⁵ / ₁₆ |
| Min. Screw Engagement (in.) | $\frac{3}{4}$ | $\frac{3}{4}$ |

| Self-Drilling Wallboard Anchor - Data | APD/AZD | | APDM/AZDM | |
|---------------------------------------|----------------|--------------|----------------|--------------|
| | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) |
| $\frac{3}{8}$ " Wallboard | 15 | 15 | 10 | 15 |
| $\frac{1}{2}$ " Wallboard | 15 | 20 | 15 | 15 |
| $\frac{5}{8}$ " Wallboard | 20 | 25 | 20 | 20 |
| $\frac{3}{4}$ " Wallboard | 20 | 25 | 20 | 20 |

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Screw Size | Box Qty. |
|---------------------------------------|----------------|------------|----------|
| Self-Drilling Wallboard Anchor | | | |
| 78101103314 | APD-8K | #8 x 1" | 50 |
| 78101103318 | AZD-8K | #8 x 1" | 50 |
| 78205153310 | APDM-6K | #6 x 1" | 50 |
| 78205153375 | AZDM-6K | #6 x 1" | 50 |

Read safety/installation instruction sheets in packages before use.

Anchors

Plastic Conical Anchors

- Designed for use with lightweight fixtures.
- Recommended for use in concrete, block and brick.
- Recommended for light duty static applications where holding power is not critical.
- Not recommended for overhead use.
- Kit includes 100 anchors, 100 screws and one drill bit.
- Made of engineered plastic.



| Plastic Conical Anchor - Data | #8 | | #10 - #12 | |
|-------------------------------|-------------------|-----------------|-------------------|-----------------|
| | Tension (lbs.) | Shear (lbs.) | Tension (lbs.) | Shear (lbs.) |
| Nominal Weight Concrete * | 110 | 70 | 140 | 90 |
| Hollow Concrete Masonry ** | 60 | 45 | 70 | 55 |
| Clay Brick Masonry *** | 30 | 50 | 55 | 65 |
| Minimum Embedment Depth | 7/8" | 7/8" | 1" | 1" |

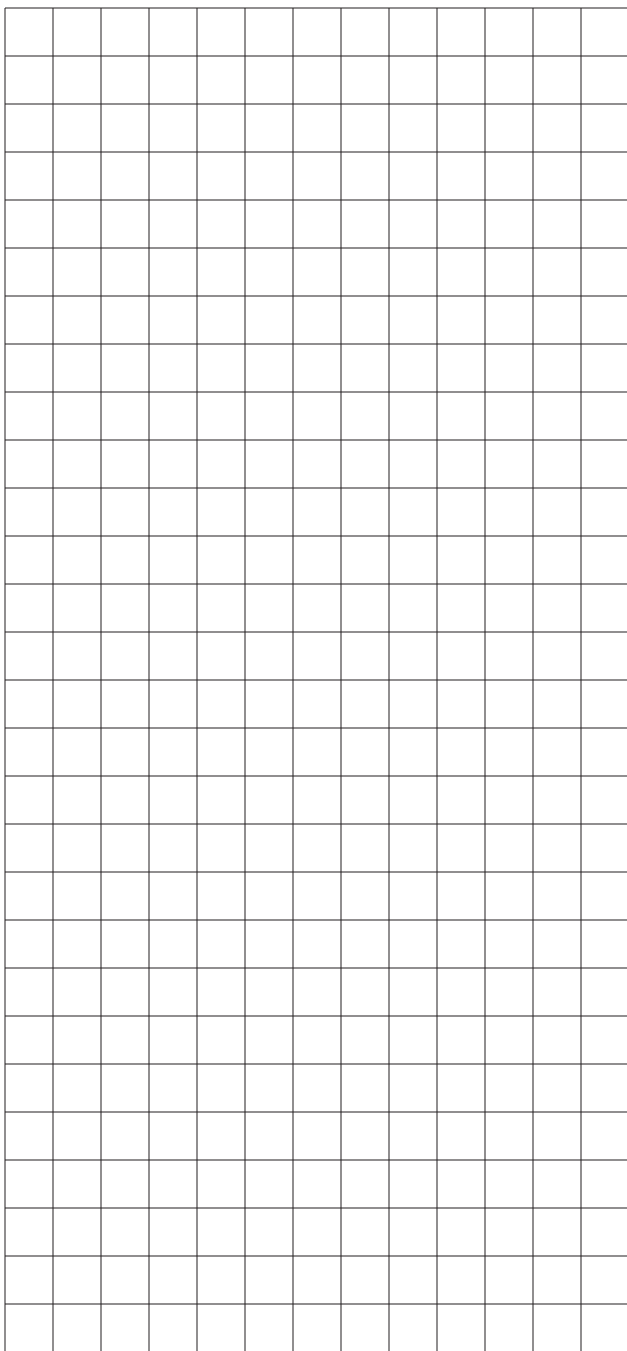
* Based on concrete compression strength of 4000 psi.

** Based on hollow concrete masonry with minimum compression strength of 1500 psi.

*** Based on clay brick masonry with minimum compression strength of 1500 psi.

Loads contain an applied safety factor of 4.0. For additional loading information contact factory.

| UPC/Part Number | Catalog Number | Screw Size | Box Qty. |
|-------------------------------|----------------|------------|----------|
| Plastic Conical Anchor | | | |
| 78205153307 | APC-8K | #8 x 1" | 100 |
| 78205153308 | APC-10K | #10 x 1" | 100 |
| 78205153309 | APC-12K | #12 x 1" | 100 |



Anchors

Code Compliance for Spring Steel Fasteners Based on the 2005 NEC®

Eaton's B-Line Business has recognized the need for a reference source, detailing the National Electrical Code requirements for Spring Steel Fasteners. The following pages are reprinted portions of the 2005 NEC. These sections address nearly every aspect of fastener installations and offer design solutions for the electrical industry. If a topic has not been covered sufficiently to answer a specific question or if additional information is desired, contact our engineering department.

The following information has been carefully checked for accuracy and is believed to be correct and current. No warranty, either expressed or implied, is made as to either its applicability to, or its compatibility with, specific requirements, of this information, nor for damages consequent to its use. All design characteristics, specifications, tolerances and similar information are subject to change without notice.

To obtain a copy of the NEC® contact:
National Fire Protection Association
1 Batterymarch Park
P.O. Box 9101
Quincy, Massachusetts 02269-9101
1-800-344-3555

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90.4 Enforcement. This *Code* is intended to be suitable for mandatory application by governmental bodies that exercise legal jurisdiction over electrical installations, including signaling and communications systems, and for use by insurance inspectors. The authority having jurisdiction for enforcement of the *Code* has the responsibility for making interpretations of the rules, for deciding upon the approval of equipment and materials, and for granting the special permission contemplated in a number of the rules.

By special permission, the authority having jurisdiction may waive specific requirements in this *Code* or permit alternate methods where it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety. *

This *Code* may require new products, constructions, or materials that may not yet be available at the time the *Code* is adopted. In such event, the authority having jurisdiction may permit the use of the products, constructions, or materials that comply with the most recent previous edition of this *Code* adopted by the jurisdiction.

Article 100 - Definitions

Listed. Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that the equipment, material, or services either meets appropriate designated standards or has been tested and found suitable for a specific purpose.

FPN: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is labeled. Use of the system employed by the listing organization allows the authority having jurisdiction to identify a listed product.

***Note:** Local codes may override certain requirements of the National Electrical Code®. Consult your local inspector for further details.

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300.4 Protection Against Physical Damage.

Where subject to physical damage, conductors shall be adequately protected.

(A) Cables and Raceways through Wood Members.

- (1) **Bored Holes.** . . . , holes shall be bored so that the edge of the hole is not less than 32mm (1¹/₄ in.) from the nearest edge of the wood member. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by screws or nails by a steel plate or bushing, at least 1.6 mm (1/16 in.) thick, and of appropriate length and width installed to cover the area of the wiring. (See Figure 1)

Exception No. 1: Steel plates shall not be required to protect RMC, IMC, RNC, or EMT.

*Exception No. 2: A **listed** and marked steel plate less than 1.6 mm (1/16 in.) thick that provides equal or better protection against nail or screw penetration shall be permitted.*

- (2) **Notches in Wood.** . . . , cables or raceways shall be permitted to be laid in notches in wood studs, joists, rafters, or other wood members where the cable or raceway at those points is protected against nails or screws by a steel plate at least 1.6 mm (1/16 in.) thick, and of appropriate length and width, installed to cover the area of the wiring. The steel plate shall be installed before the building finish is applied. (See Figure 1)

Exception: See Exceptions 1 & 2 from (1) Bored Holes

(B) Nonmetallic-Sheathed Cables and Electrical Nonmetallic Tubing through Metal Framing Members.

- (1) **Nonmetallic-Sheathed Cable.** . . . where nonmetallic-sheathed cables pass through either factory or field punched, cut or drilled slots or holes in metal members, the cable shall be protected by listed bushings or listed grommets covering all metal edges that are securely fastened in the opening prior to installation of the cable. (See Figure 2)

- (2) **Nonmetallic-Sheathed Cable and Electrical Nonmetallic Tubing.** Where nails or screws are likely to penetrate nonmetallic-sheathed cable or electrical nonmetallic tubing, a steel sleeve, steel plate, or steel clip not less than 1.6 mm (1/16 in.) in thickness shall be used to protect the cable or tubing. (See Figure 1)

Exception: See Exception 2 from (A)(1) Bored Holes

(D) Cables and Raceways Parallel to Framing Members and Furring Strips.

... , the cable or race way shall be installed and supported so that the nearest outside surface of the cable or raceway is not less than 32 mm (1¹/₄ in.) from the nearest edge of the framing member or furring strips where nails or screws are likely to penetrate. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by nails or screws by a steel plate, sleeve, or equivalent at least 1.6 mm (1¹/₁₆ in.) thick

(See Figures 1, 3, 4)

Exception 1: See Exception 1 from (A)(1) Bored Holes

Exception No. 2: For concealed work in finished buildings, or finished panels for prefabricated buildings where such supporting is impracticable, it shall be permissible to fish the cables between access points.

Exception 3: See Exception 2 from (A)(1) Bored Holes

(E) Cables and Raceways Installed in Shallow Grooves.

... , shall be protected by 1.6 mm (1¹/₁₆ in.) thick steel plate, sleeve, or equivalent or by not less than 32 mm (1¹/₄ in.) free space for the full length of the groove in which the cable or raceway is installed.

(See Figure 1)

Exception: See Exceptions 1 & 2 from (A)(1) Bored Holes

Figure 1 - BM3 & BM3M

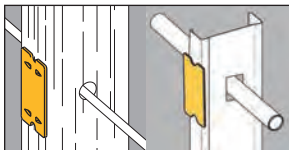


Figure 2 - BM1/BM2

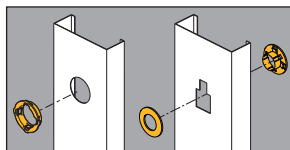
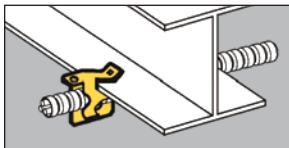


Figure 3 - BRC4 & BRC6M



Figure 4 - BX4



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300.11 Securing and Supporting.

(A) Secured in Place. Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sole support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and race ways shall not be supported by ceiling grids.

(1) Fire Rated Assemblies. Wiring located within the cavity of a fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided and shall be permitted to be attached to the assembly. Where independent support wires are used, they shall be distinguishable by color, tagging, or other effective means from those that are part of the fire-rated design.

Exception: *The ceiling support system shall be permitted to support wiring and equipment that have been tested as part of the fire-rated assembly.*

(2) Non-Fire-Rated Assemblies. Wiring located within the cavity of a non-fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided.

Exception: *The ceiling support system shall be permitted to support branch-circuit wiring and associated equipment where installed in accordance with the ceiling system manufacturer's instructions.*

Note: A previously acceptable practice, namely supporting cable and raceways by the ceiling grid, is no longer allowed. The intent of Article 300.11 is simple: an independent means of secure support must be provided for cable assemblies, raceways, boxes, etc. (See Figures 5 - 8)

Typical Drop Wire / Rod Applications

Additional drop wires, which are installed specifically for cable support, must be secured at both ends. When independent wires are used in fire-rated assemblies, they must be distinguishable from those wires that are part of the fire-rated assembly. B-Line's BA-311 series can be used to secure support wire to the ceiling grid. Its bright yellow color allows it to be easily recognized by inspectors. (See Figure 8)

Upper Attachments

Figure 5 - BE Series

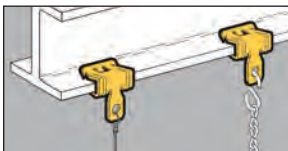


Figure 6 - BF3 Series & BF4 Series

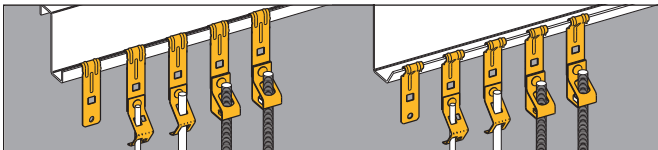


Figure 7 - BG-8-12-S18-W2

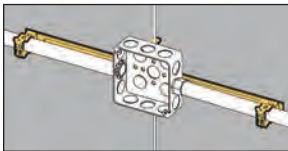
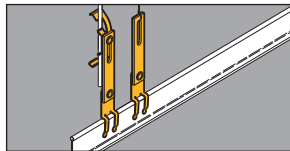


Figure 8 - BA311



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310.15 Ampacities For Conductors Rated 0-2000 Volts.

(B) Tables

(2) Adjustment Factors.

- (a) More Than Three Current-Carrying Conductors in a Raceway or Cable. Where the number of current-carrying conductors in a raceway or cable exceeds three, or where single conductors or multiconductor cables are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing and are not installed in raceways, the allowable ampacity of each conductor shall be reduced as shown in Table 310.15(B)(2)(a). Each current-carrying conductor of a paralleled set of conductors shall be counted as a current-carrying conductor.

FPN No. 1: See Annex B, Table B.310.11, for adjustment factors for more than three current-carrying conductors in a raceway or cable with load diversity.

FPN No. 2: See 366.23(A), for correction factors for conductors in sheet metal auxiliary gutters and 376.22 for correction factors for conductors in metal raceways.

Exception No. 1: Where conductors of different systems, as provided in 300.3, are installed in a common raceway or cable, the derating factors shown in Table 310.15(B)(2)(a) shall apply only to the number of power and lighting conductors (Articles 210, 215, 220, and 230).

Exception No. 2: For conductors installed in cable trays, the provisions of 392.11 shall apply.

Exception No. 3: Derating factors shall not apply to conductors in nipples having a length not exceeding 600 mm (24 in.).

Exception No. 4: Derating factors shall not apply to underground conductors entering or leaving an outdoor trench if those conductors have physical protection in the form of rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit having a length not exceeding 3.05 m (10 ft) and if the number of conductors does not exceed four.

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Exception No. 5: Adjustment factors shall not apply to Type AC cable or to Type MC cable without an overall outer jacket under the following conditions:

- (1) *Each cable has not more than three current-carrying conductors.*
- (2) *The conductors are 12 AWG copper.*
- (3) *Not more than 20 current-carrying conductors are bundled, stacked, or supported on "bridle rings".*
(See Figure 9)

A 60 percent adjustment factor shall be applied where current-carrying conductors in these cables that are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing exceeds 20.

- (b) *More Than One Conduit, Tube, or Raceway Spacing between conduits, tubing, or raceways shall be maintained.*

Figure 9 - Bridle Rings

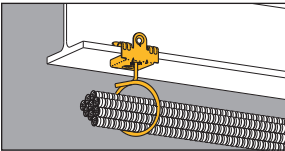
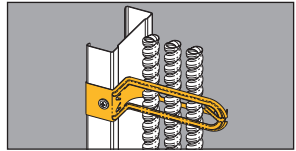


Figure 10 - BRC6M



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NEC Requirements

314.23 Supports. Enclosures within the scope of this article shall be supported in accordance with one or more of the provisions in 314.23 (A) through (H).

(C) Mounting in Finished Surfaces. An enclosure mounted in a finished surface shall be rigidly secured thereto by clamps, anchors, or fittings identified for the application. *(See Figures 11 & 12)*

(D) Suspended Ceilings. An enclosure mounted to structural or supporting elements of a suspended ceiling shall be not more than 1650 cm³ (100 in.³) in size and shall be securely fastened in place in accordance with either (D)(1) or (D)(2).

(1) Framing Members. An enclosure shall be fastened to the framing members by mechanical means such as bolts, screws, or rivets, or by the use of clips or other securing means identified for use with the type of ceiling framing member(s) and enclosure(s) employed. . . . *(See Figure 13)*

(2) Support Wires. The installation shall comply with the provisions of 300.11(A). The enclosure shall be secured, using methods identified for the purpose to ceiling support wire(s), including any additional support wire(s) installed for that purpose. Support wire(s) used for enclosure support shall be fastened at each end so as to be taut within the ceiling cavity. *(See Figure 14)*

(E) Raceway Supported Enclosures, Without Devices, Luminaries (Fixtures), or Lampholders.

. . . It shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 900 mm (3 ft) of the enclosure, or within 450 mm (18 in.) of the enclosure if all conduit entries are on the same side. *(See Figure 15)*

(F) Raceway Supported Enclosures, With Devices, Luminaries (Fixtures), or Lampholders. . . . It

shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 450 mm (18 in.) of the enclosure. *(See Figure 15)*

314.27 Outlet Boxes

(B) Maximum Luminaire (Fixture) Weight. Outlet boxes or fitting installed as required by 314.23 shall be permitted to support luminaries (lighting fixtures) weighing 23 kg (50 lbs.) or less. A luminaire (lighting fixture) that weighs more than 23 kg (50 lbs.) shall be supported independently of the outlet box unless the outlet box is listed for the weight to be supported. *(See Figure 13)*

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(D) Boxes at Ceiling-Suspended (Paddle) Fan Outlets.

Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support of a ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported.

(See Figure 16)

Figure 11 - BB4-23

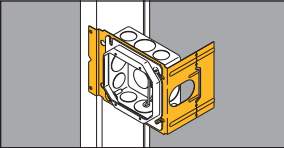


Figure 12 - BB9 & BB12

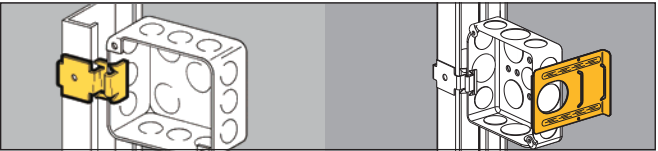


Figure 13 - BA50

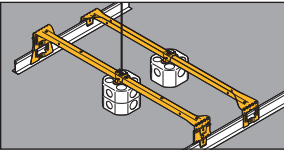


Figure 14 - BG-8-12-S18-W2

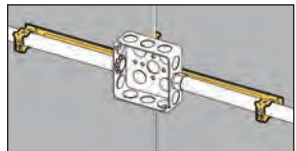


Figure 15 - BG-8-12-S18-U-2-4

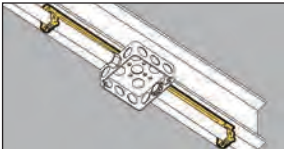
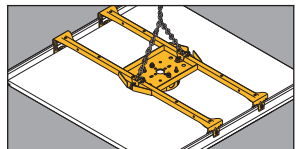


Figure 16 - BA50F



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NEC Requirements

Article 320 Armored Cable : Type AC

320.17 Through or Parallel to Framing Members.

Type AC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

320.30 Securing and Supporting.

- (A) **General.** Type AC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings, designed and installed so as not to damage the cable.
- (B) **Securing.** Unless otherwise provided, Type AC cable shall be secured within 300 mm (12 in.) of every out let box, junction box, cabinet, or fitting and at intervals not exceeding 1.4 m (4¹/₂ ft) where installed on or across framing members. (See Figures 19 -22)
- (C) **Supporting.** Unless otherwise provided, Type AC cable shall be supported at intervals not exceeding 1.4 m (4¹/₂ ft). Horizontal runs of Type AC cable installed in wooden or metal framing members or similar supporting means shall be considered supported where such support does not exceed 1.4 m (4¹/₂ ft) intervals.

Article 330 Metal-Clad Cable : Type MC

330.17 Through or Parallel to Framing Members.

Type MC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

330.30 Securing and Supporting.

- (A) **General.** Type MC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings or other approved means designed and installed so as not to damage the cable.
- (B) **Securing.** Unless otherwise provided, cables shall be secured at intervals not exceeding 1.8 m (6 ft). Cables containing four or fewer conductors sized no larger than 10 AWG shall be secured within 300 mm (12 in.) of every box, cabinet, fitting or other cable termination. (See Figure 19 - 22)
- (C) **Supporting.** Unless otherwise provided, cables shall be supported at intervals not exceeding 1.8 m (6ft). Horizontal runs of Type MC cable installed in wooden or metal framing members or similar supporting means shall be considered supported and secured where such support does not exceed 1.8 m (6 ft) intervals.

Article 334 Nonmetallic Sheathed Cables

334.17 Through or Parallel to Framing Members.

Type NM, NMC, or NMS cable shall be protected in accordance with 300.4 where installed through or

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parallel to framing members. Grommets used as required in 300.4(B)(1) shall remain in place and be **listed** for the purpose of cable protection.

(See Figures 17 & 18)

334.30 Securing and Supporting. Nonmetallic-sheathed cable shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings designed and installed so as not to damage the cable, at intervals not exceeding 1.4 m (4¹/₂ ft) and within 300 mm (12 in.) of every outlet box, junction box, cabinet, or fitting. Flat cables shall not be stapled on edge. Sections of cable protected from physical damage by raceway shall not be required to be secured within the raceway.

(See Figures 19 - 22)

(A) Horizontal Runs Through Holes and Notches.

In other than vertical runs, cables installed in accordance with 300.4 shall be considered to be supported and secured where such support does not exceed 1.4 m (4¹/₂ ft) intervals and the nonmetallic-sheathed cable is securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other nonmetallic-sheathed cable termination.

FPN: See 314.17(C) for support where nonmetallic boxes are used.

Figure 17 - BM1/BM2

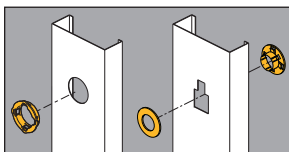


Figure 18 - BM3 & BM3M

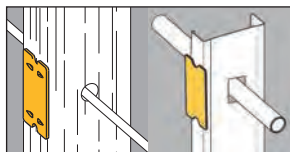


Figure 19 - BG-8-12-H7

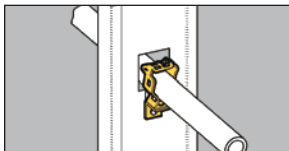


Figure 20 - BRC4 & BRC6M

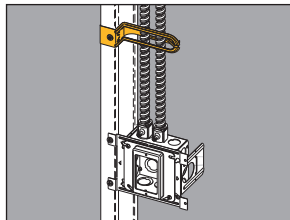


Figure 21 - BX5

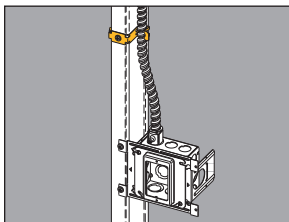
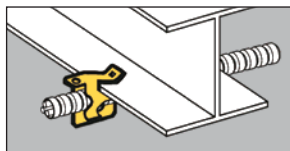


Figure 22 - BX4



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NEC Requirements

Article 344 Rigid Metal Conduit : Type RMC

344.30 Securing and Supporting.

(A) Securely Fastened. RMC shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box, device box, cabinet, conduit body, or other conduit termination. Fastening shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft). Where approved, conduit shall not be required to be securely fastened within 900 mm (3 ft) of the service head for above-the-roof termination of a mast.

(See Figures 23 - 25)

(B) Supports. RMC shall be supported in accordance with one of the following:

- (1) Conduit shall be supported at intervals not exceeding 3 m (10 ft).
- (2) The distance between supports for straight runs of conduit shall be permitted in accordance with Table 344.30(B)(2),
- (3) Exposed vertical risers from industrial machinery or fixed equipment shall be permitted to be supported at intervals not exceeding 6 m (20 ft)
- (4) Horizontal runs of RMC supported by openings through framing members at intervals not exceeding 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. *(See Figure 26)*

Article 348 Flexible Metal Conduit: Type FMC

348.30 Securing and Supporting.

(A) Securely Fastened. FMC shall be securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4 m (4¹/₂ ft).

(See Figures 23 - 25)

(B) Supports. Horizontal runs of FMC supported by openings through framing members at intervals not greater than 1.4 m (4¹/₂ ft) and securely fastened within 300 mm (12 in) of termination points shall be permitted. *(See Figure 26)*

* See NFPA 70-2005 for exceptions.

Article 358 Electrical Metallic Tubing - Type EMT

358.30 Securing and Supporting.

(A) Securely Fastened. EMT shall be securely fastened in place at least every 3 m (10 ft). In addition, each EMT run between termination points shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box,

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device box, cabinet, conduit body, or other tubing termination. (See Figures 23 - 25)

Exception No. 1: Fastening of unbroken lengths shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft).

Exception No. 2: For concealed work in finished buildings or prefinished wall panels where such securing is impracticable, unbroken lengths (with out coupling) of EMT shall be permitted to be fished.

- (B) Supports.** Horizontal runs of EMT supported by openings through framing members at intervals not greater than 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Article 362 Electrical Nonmetallic Tubing - Type ENT

362.30 Securing and Supporting.

- (A) Securely Fastened.** ENT shall be securely fastened at intervals not exceeding 900 mm (3 ft). In addition, ENT shall be securely fastened in place within 900 mm (3 ft) of each outlet box, device box, junction box, cabinet, or fitting where it terminates. (See Figures 23 - 25)

Exception No. 1: Lengths not exceeding a distance of 1.8 m (6 ft) from a luminaire (fixture) terminal connection for tap connection to lighting luminaries (fixtures) shall be permitted without being secured.

Exception No. 2: Lengths not exceeding 1.8 m (6 ft) from the last point where the raceway is securely fastened for connection within an accessible ceiling to luminaire(s) [lighting fixture(s)] or other equipment.

- (B) Supports.** Horizontal runs of ENT supported by openings in framing members at intervals not exceeding 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Figure 23 - BG-8-12-S18-U-2-4

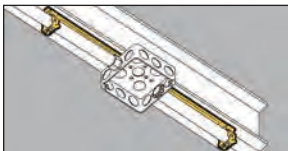


Figure 25 - BG-8-12-B1

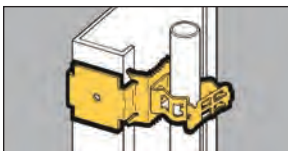


Figure 24 - BB38

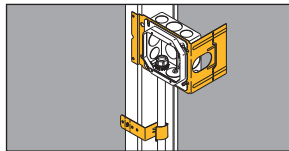
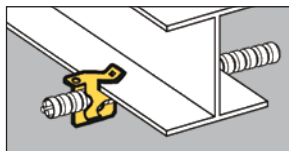


Figure 26 - BX4



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NEC Requirements

Article 410 Luminaries (Lighting Fixtures), Lampholders, and Lamps

410.16 Means of Support.

(A) Outlet Boxes. Outlet boxes or fittings installed as required by 314.23 and complying with the provisions of 314.27(A) and 314.27(B) shall be permitted to support luminaries (fixtures).

(C) Suspended Ceilings. Framing members of suspended ceiling systems used to support luminaries (fixtures) shall be securely fastened to each other and shall be securely attached to the building structure at appropriate intervals. Luminaries (fixtures) shall be securely fastened to the ceiling framing member by mechanical means such as bolts, screws, or rivets.

Listed clips identified for use with the type of ceiling framing member(s) and luminaire(s) [fixture(s)] shall also be permitted. (See Figures 27 - 31)

410.104 Fastening. Lighting track shall be securely mounted so that each fastening is suitable for supporting the maximum weight of luminaries (fixtures) that can be installed. Unless identified for supports at greater intervals, a single section 1.2 m (4 ft.) or shorter in length shall have two supports, and, where installed in a continuous row, each individual section of not more than 1.2 m (4 ft.) in length shall have one additional support. (See Figure 30)

422.18 Support of Ceiling-Suspended (Paddle) Fans

Ceiling-suspended (paddle) fans shall be supported independently of an outlet box or by **listed** outlet box or outlet box systems identified for the use and installed in accordance with 314.27(D). (See Figure 32)

Article 800 Communication Circuits

800.24 Mechanical Execution of Work.

Communications circuits and equipment shall be installed in a neat and workmanlike manner. Cables installed exposed on the surface of ceilings and sidewalls shall be supported by the building structure in such a manner that the cable will not be damaged by normal building use. Such cables shall be secured by straps, staples, hangers, or similar fittings designed and installed so as not to damage the cable. The installation shall also conform with 300.4(D) and 300.11.

FPN: Accepted industry practices are described in ANSI/NECA/BICSI 568-2001, Standard for Installing Commercial Building Telecommunications Cabling, and other ANSI-approved installation standards.

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Figure 27 - BA15

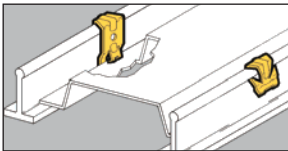


Figure 28 - BA1

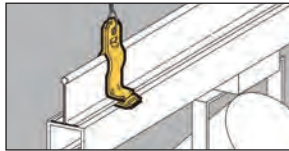


Figure 29 - BA40

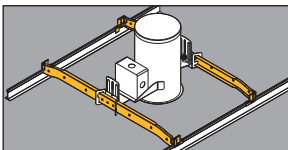


Figure 30 - BA 4-16 Series

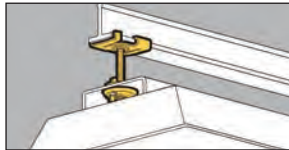


Figure 31 - BAX Series

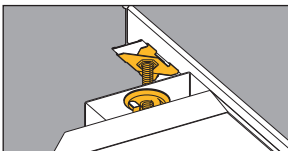
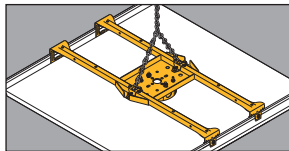


Figure 32 - BA50F



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ANSI/TIA/EIA-569-A

4. Horizontal pathways and related spaces

4.6 Ceiling pathway

4.6.2 Design guidelines

4.6.2.1 Planning. The design shall provide a suitable means for supporting cable from the telecommunications closet to the work areas to be served. Cable shall not be laid directly on the ceiling tile or rails.

4.6.2.2 Clearance. A minimum of 75 mm (3 in.) clear vertical space shall be available above the ceiling tiles for the horizontal cabling and pathway. (See Figure 33)

4.6.5 Cable support

4.6.5.1 Where zone conduit or cable tray is not available in a suspended ceiling space and where telecommunications cables are allowed to be placed in the ceiling, adequate open-top cable supports, located on 1220-1525 mm (48-60 inch) centers, shall be provided. Where larger quantities of cables (50-75 cables) bunched together in the ceiling at a congested area, such as close to the telecommunications closet, special supports shall be designed and installed to carry the additional weight. (See Figures 33 & 34)

4.6.5.2 A suspended ceiling support rod or wire may be used to mount appropriate cable fasteners loaded with multiple cables up to the total weight for which the fastener is approved. The T-bar rail of a suspended ceiling may be used to mount appropriate cable fasteners loaded with cable up to a total weight of 0.7 kg/m (0.45 lb/ft). The fastener design shall not interfere with the inserting or removing of the ceiling tile. (See Figures 33 & 34)

NOTES

- 1) A weight of 1.0 kg (2.2 lbs.) or 0.7 kg/m with spacing of support wire/rod at 1.5 m (5 ft.) is equivalent to a bundle of sixteen 4-pair 24 AWG UTP cables, including fasteners.
- 2) If any side pull is exerted on the support wire, like a turn in direction of the cables, the level of the ceiling tee rail could be affected.

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Figure 33 - BCHxx-A28

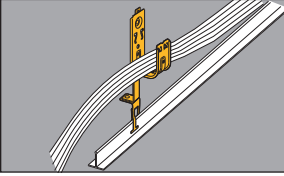
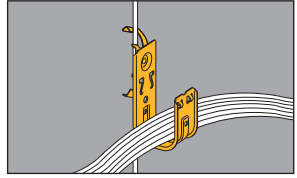


Figure 34 - BCHxx-W2



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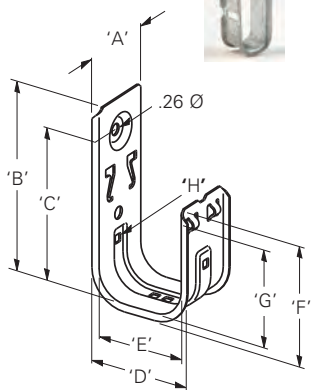
Reference Data

Cable Hook Technical Data

Single-Sided Single-Tier Cable Fasteners

| Hook Size | 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | 'G' | 'H' |
|--------------------------------|------|------|------|------|------|------|------|-----|
| In. | In. | In. | In. | In. | In. | In. | In. | In. |
| 3/4 | .88 | 3.18 | 2.68 | 1.00 | .75 | 1.69 | .94 | – |
| 1 ⁵ / ₁₆ | 1.62 | 3.62 | 2.81 | 1.69 | 1.31 | 2.00 | 1.37 | .20 |
| 2 | 1.62 | 4.31 | 3.50 | 2.38 | 2.00 | 2.69 | 2.06 | .20 |
| 4 | 2.00 | 6.81 | 5.56 | 4.55 | 4.00 | 4.84 | 4.06 | .31 |

BCH12

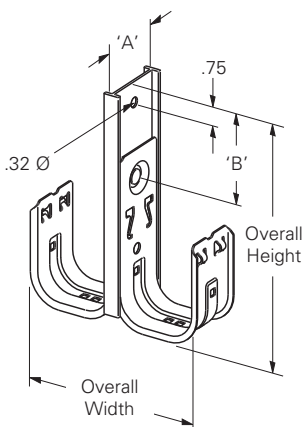


Load Capacity

| Cable Hook Size | Static Load Capacity (S.F. 3) | |
|--------------------------------|-------------------------------|------|
| | Galvanized & Stainless Steel | Lbs. |
| 3/4 | 30 | |
| 1 ⁵ / ₁₆ | 30 | |
| 2 | 30 | |
| 4 | 30 | |

Stated loads are per hook and should not be exceeded. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Double-Sided Single-Tier Cable Fasteners

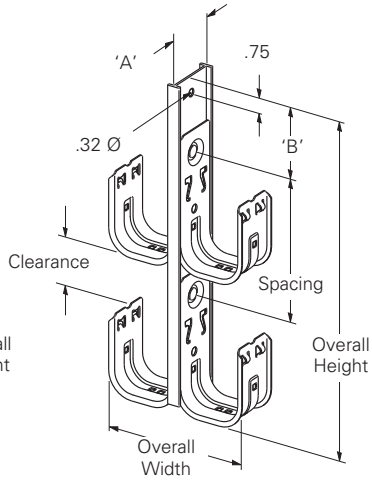
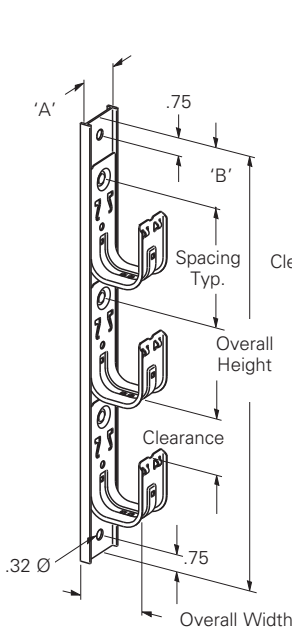


| Hook Size | 'A' | 'B' | Overall Height | Overall Width |
|--------------------------------|------|------|----------------|---------------|
| In. | In. | In. | In. | In. |
| 1 ⁵ / ₁₆ | 1.90 | 2.50 | 5.50 | 3.47 |
| 2 | 1.90 | 2.50 | 6.19 | 4.85 |
| 4 | 2.38 | 2.94 | 9.00 | 9.19 |

Cable Hook Technical Data

Double-Sided Double-Tier Cable Fasteners

| Hook Size In. | 'A' In. | 'B' In. | Spacing In. | Clearance In. | Overall Height In. | Overall Width In. |
|------------------|------------|------------|----------------|------------------|-----------------------|----------------------|
| 15/16 | 1.90 | 2.50 | 3.75 | 1.94 | 9.25 | 3.47 |
| 2 | 1.90 | 2.50 | 4.75 | 2.25 | 10.94 | 4.85 |
| 4 | 2.38 | 2.94 | 9.38 | 4.50 | 18.20 | 9.19 |



Single-Sided Multi-Tier Cable Fasteners (2 thru 6 Tier)

| Hook Size In. | No. Tiers In. | 'A' In. | 'B' In. | Spacing In. | Clearance In. | Overall Height In. | Overall Width In. |
|------------------|------------------|------------|------------|----------------|------------------|-----------------------|----------------------|
| 15/16 | 2 | 1.90 | 2.50 | 3.75 | 1.94 | 11.00 | 1.96 |
| | 3 | 1.90 | 2.50 | 3.75 | 1.94 | 14.75 | 1.96 |
| | 4 | 1.90 | 2.50 | 3.75 | 1.94 | 18.50 | 1.96 |
| | 5 | 1.90 | 2.50 | 3.75 | 1.94 | 22.25 | 1.96 |
| | 6 | 1.90 | 2.50 | 3.75 | 1.94 | 26.00 | 1.96 |
| 2 | 2 | 1.90 | 2.50 | 4.75 | 2.25 | 12.75 | 2.66 |
| | 3 | 1.90 | 2.50 | 4.75 | 2.25 | 17.50 | 2.66 |
| | 4 | 1.90 | 2.50 | 4.75 | 2.25 | 22.25 | 2.66 |
| | 5 | 1.90 | 2.50 | 4.75 | 2.25 | 27.00 | 2.66 |
| | 6 | 1.90 | 2.50 | 4.75 | 2.25 | 31.75 | 2.66 |
| 4 | 2 | 2.38 | 2.94 | 8.75 | 3.19 | 19.33 | 4.82 |
| | 3 | 2.38 | 2.94 | 8.75 | 3.19 | 28.08 | 4.82 |

Reference Data

Rigid Steel Conduit (Heavy Wall Conduit)

| Nominal Conduit Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight Per 100 Ft. With Couplings Attached | Weight of Conduit and Conductors Per 100 Ft.* |
|----------------------|------------------|-------------------------|--|---|
| In. | In. | In. | Lbs. | Lbs. |
| 3/8 | 0.675 | 0.493 | 51.5 | 65.1 |
| 1/2 | 0.840 | 0.632 | 79.0 | 101.1 |
| 3/4 | 1.050 | 0.836 | 105.0 | 145.8 |
| 1 | 1.315 | 1.063 | 153.0 | 219.3 |
| 1 1/4 | 1.660 | 1.394 | 201.0 | 318.3 |
| 1 1/2 | 1.900 | 1.624 | 249.0 | 408.8 |
| 2 | 2.375 | 2.083 | 332.0 | 593.8 |
| 2 1/2 | 2.875 | 2.489 | 527.0 | 901.0 |
| 3 | 3.500 | 3.090 | 682.0 | 1259.0 |
| 3 1/2 | 4.000 | 3.570 | 831.0 | 1604.0 |
| 4 | 4.500 | 4.050 | 972.0 | 1967.0 |

Intermediate Metal Conduit (IMC)

| Nominal Conduit Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight Per 100 Ft. With Couplings Attached | Weight of Conduit and Conductors Per 100 Ft.* |
|----------------------|------------------|-------------------------|--|---|
| In. | In. | In. | Lbs. | Lbs. |
| 1/2 | 0.815 | 0.745 | 60.0 | 82.1 |
| 3/4 | 1.029 | 0.954 | 82.0 | 122.8 |
| 1 | 1.290 | 1.205 | 116.0 | 182.3 |
| 1 1/4 | 1.638 | 1.553 | 150.0 | 267.3 |
| 1 1/2 | 1.883 | 1.793 | 182.0 | 341.8 |
| 2 | 2.360 | 2.266 | 242.0 | 503.8 |
| 2 1/2 | 2.857 | 2.727 | 401.0 | 775.0 |
| 3 | 3.476 | 3.346 | 493.0 | 1069.0 |
| 3 1/2 | 3.971 | 3.841 | 573.0 | 1346.0 |
| 4 | 4.466 | 4.336 | 638.0 | 1632.0 |

Dimensions taken from ANSI C80.3 - 1977.

* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

Electrical Metallic Tubing (EMT) - Thinwall Conduit

| Nominal Conduit Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight Per 100 Ft. With Couplings Attached | Weight of Conduit and Conductors Per 100 Ft.* |
|----------------------|------------------|-------------------------|--|---|
| In. | In. | In. | Lbs. | Lbs. |
| 3/8 | 0.577 | 0.493 | 23.0 | 36.6 |
| 1/2 | 0.706 | 0.622 | 28.5 | 50.6 |
| 3/4 | 0.922 | 0.824 | 43.5 | 84.3 |
| 1 | 1.163 | 1.049 | 64.0 | 130.3 |
| 1 1/4 | 1.510 | 1.380 | 95.0 | 212.3 |
| 1 1/2 | 1.740 | 1.610 | 110.0 | 269.8 |
| 2 | 2.197 | 2.067 | 140.0 | 401.8 |
| 2 1/2 | 2.875 | 2.731 | 205.0 | 579.0 |
| 3 | 3.500 | 3.356 | 250.0 | 826.3 |
| 3 1/2 | 4.000 | 3.834 | 325.0 | 1098.0 |
| 4 | 4.500 | 4.334 | 370.0 | 1364.0 |

Rigid Aluminum Conduit

| Nominal Conduit Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight Per 100 Ft. With Couplings Attached | Weight of Conduit and Conductors Per 100 Ft.* |
|----------------------|------------------|-------------------------|--|---|
| In. | In. | In. | Lbs. | Lbs. |
| 1/2 | 0.840 | 0.632 | 27.4 | 49.5 |
| 3/4 | 1.050 | 0.836 | 36.4 | 77.2 |
| 1 | 1.315 | 1.063 | 53.0 | 119.3 |
| 1 1/4 | 1.660 | 1.394 | 69.6 | 186.9 |
| 1 1/2 | 1.900 | 1.624 | 82.2 | 242.0 |
| 2 | 2.375 | 2.083 | 115.7 | 377.5 |
| 2 1/2 | 2.875 | 2.489 | 182.5 | 556.5 |
| 3 | 3.500 | 3.090 | 238.9 | 815.2 |
| 3 1/2 | 4.000 | 3.570 | 287.7 | 1061.0 |
| 4 | 4.500 | 4.050 | 340.0 | 1334.0 |
| 5 | 5.563 | 5.073 | 465.4 | 2028.0 |
| 6 | 6.625 | 6.093 | 612.5 | 2870.0 |

Dimensions taken from ANSI C80.3 - 1977.

* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

Reference Data

Schedule 40 PVC Plastic Pipe

| Nominal Pipe Size | Outside Diameter | Wall Thickness | Weight of Pipe | Weight of Water |
|-------------------|------------------|----------------|----------------|-----------------|
| In. | In. | In. | Lbs. Per Ft. | Lbs. Per Ft. |
| 1/8 | 0.405 | 0.068 | 0.04 | 0.02 |
| 1/4 | 0.540 | 0.088 | 0.07 | 0.04 |
| 3/8 | 0.675 | 0.091 | 0.10 | 0.08 |
| 1/2 | 0.840 | 0.109 | 0.15 | 0.10 |
| 3/4 | 1.050 | 0.113 | 0.20 | 0.20 |
| 1 | 1.315 | 0.133 | 0.30 | 0.40 |
| 1 1/4 | 1.660 | 0.140 | 0.40 | 0.60 |
| 1 1/2 | 1.900 | 0.145 | 0.50 | 0.90 |
| 2 | 2.375 | 0.155 | 0.60 | 1.40 |
| 2 1/2 | 2.875 | 0.203 | 1.00 | 2.10 |
| 3 | 3.500 | 0.216 | 1.30 | 3.20 |
| 3 1/2 | 4.000 | 0.226 | 1.60 | 4.30 |
| 4 | 4.500 | 0.237 | 1.90 | 5.50 |

Electrical Non-Metallic Tubing (ENT)

| Nominal Size | Outside Diameter | Nominal Inside Diameter | Minimum Weight of Conduit | Weight of Conduit and Conductors |
|--------------|------------------|-------------------------|---------------------------|----------------------------------|
| In. | In. | In. | Lbs. Per 100 Ft. | Lbs. Per 100 Ft. |
| 1/2 | 0.840 | 0.560 | 11.0 | 33.1 |
| 3/4 | 1.050 | 0.760 | 14.0 | 54.8 |
| 1 | 1.315 | 1.000 | 20.0 | 86.3 |
| 1 1/4 | 1.660 | 1.402 | 19.0 | 136.3 |
| 1 1/2 | 1.990 | 1.554 | 27.0 | 186.8 |
| 2 | 2.375 | 2.030 | 32.0 | 261.8 |

All Threaded Rod (ATR)

| Thread Size | Root Area | Design Load (SF=5) |
|-------------|------------------------|--------------------|
| 1/4"-20 | 0.027 in. ² | 240 lbs. |
| 5/16"-18 | 0.045 in. ² | 400 lbs. |
| 3/8"-16 | 0.068 in. ² | 610 lbs. |

Tabulated loads are based on an allowable tensile stress of 12000 psi reduced by 25% resulting in 9000 psi. From ANSI/MSS SP-58, Table 3.

Dimensions taken from ANSI B1.1 1982 Unified Inch Screw Threads. All threads are UNCR series.

MC -- Metal Clad Cable Specifications

| Trade Size | Grounding Conductor AWG | Armor O.D. In. | Approximate Wt. Per 100 Ft. Lbs. |
|--------------|-------------------------|----------------|----------------------------------|
| 14-2 Solid | 14 | 0.470 | 17.5 |
| 14-3 Solid | 14 | 0.480 | 20.5 |
| 14-4 Solid | 14 | 0.510 | 23.0 |
| 12-2 Solid | 12 | 0.495 | 21.5 |
| 12-3 Solid | 12 | 0.530 | 25.5 |
| 12-4 Solid | 12 | 0.565 | 29.5 |
| 10-2 Solid | 10 | 0.560 | 28.5 |
| 10-3 Solid | 10 | 0.600 | 34.0 |
| 10-4 Solid | 10 | 0.645 | 39.5 |
| 8-2 Stranded | 10 | 0.710 | 45.0 |
| 8-3 Stranded | 10 | 0.770 | 54.5 |
| 8-4 Stranded | 10 | 0.835 | 64.5 |
| 6-2 Stranded | 8 | 0.795 | 59.0 |
| 6-3 Stranded | 8 | 0.865 | 72.0 |
| 6-4 Stranded | 8 | 0.945 | 86.0 |
| 4-2 Stranded | 8 | 0.945 | 78.5 |
| 4-3 Stranded | 8 | 1.035 | 98.5 |
| 4-4 Stranded | 8 | 1.135 | 119.5 |
| 3-3 Stranded | 6 | 1.025 | 107.0 |
| 3-4 Stranded | 6 | 1.120 | 126.0 |
| 2-2 Stranded | 6 | 1.075 | 104.5 |
| 2-3 Stranded | 6 | 1.180 | 134.0 |
| 2-4 Stranded | 6 | 1.295 | 164.0 |

Category 5 Cable

| Pair Count | AWG Size | O.D. In. | Weight Lbs. Per 100 Ft. |
|------------|----------|----------|-------------------------|
| 2 | 24 | 0.16 | 1.3 |
| 3 | 24 | 0.18 | 1.7 |
| 4 | 24 | 0.20 | 2.1 |
| 6 | 24 | 0.27 | 3.5 |
| 8 | 24 | 0.30 | 4.2 |
| 25 | 24 | 0.50 | 13.0 |

Reference Data

Type NM -- Non-Metallic Sheathed Cable

| Size AWG | Number of Strands | Ground Wire Size | Approximate O.D. In. | Approximate Weight Lbs. Per 100 Ft. |
|---------------------|-------------------|------------------|-------------------------|--|
| Without Ground Wire | | | | |
| 14-2 | Solid | – | .17 x .37 | 5.3 |
| 12-2 | Solid | – | .19 x .40 | 7.0 |
| 10-2 | Solid | – | .22 x .45 | 10.1 |
| 14-3 | Solid | – | 0.295 | 8.2 |
| 12-3 | Solid | – | 0.332 | 10.9 |
| 10-3 | Solid | – | 0.396 | 15.7 |
| 8-3 | 7 | – | 0.538 | 27.8 |
| 6-3 | 7 | – | 0.611 | 42.2 |
| With Ground Wire | | | | |
| 14-2 | Solid | 14 | .17 x .37 | 6.4 |
| 12-2 | Solid | 12 | .19 x .41 | 9.0 |
| 10-2 | Solid | 10 | .22 x .49 | 13.3 |
| 8-2 | 7 | 10 | .28 x .61 | 21.5 |
| 6-2 | 7 | 10 | .32 x .73 | 31.3 |
| 14-3 | Solid | 14 | .322 | 9.3 |
| 12-3 | Solid | 12 | .363 | 12.9 |
| 10-3 | Solid | 10 | .436 | 18.7 |
| 14-4 | Solid | 14 | .450 | 11.6 |
| 12-4 | Solid | 12 | .490 | 16.1 |
| 10-4 | Solid | 10 | .550 | 23.3 |
| 8-3 | 7 | 10 | .552 | 30.5 |
| 6-3 | 7 | 10 | .611 | 45.0 |
| 4-3 | 7 | 8 | .821 | 66.4 |
| 2-3 | 7 | 8 | .946 | 93.0 |

Type THHN -- Insulated Single Conductor Building Wire

| Trade Size | Approximate O.D. In. | Approximate Weight Lbs. Per 100 Ft. |
|------------|-------------------------|--|
| 14 AWG | 0.11 | 1.7 |
| 12 AWG | 0.13 | 2.5 |
| 10 AWG | 0.16 | 4.0 |
| 8 AWG | 0.22 | 6.5 |
| 6 AWG | 0.25 | 9.7 |
| 4 AWG | 0.32 | 15.5 |
| 3 AWG | 0.35 | 19.1 |
| 2 AWG | 0.38 | 23.6 |
| 1 AWG | 0.45 | 30.4 |
| 1/0 AWG | 0.49 | 37.5 |

AC -- Armored Cable Specifications

| Trade Size | Armor O.D. In. | Approximate Weight Lbs. Per 100 Ft. |
|--------------|----------------|-------------------------------------|
| 14-2 Solid | 0.433 | 18.0 |
| 14-3 Solid | 0.453 | 20.0 |
| 14-4 Solid | 0.486 | 25.0 |
| 12-2 Solid | 0.467 | 21.0 |
| 12-3 Solid | 0.489 | 24.5 |
| 12-4 Solid | 0.520 | 29.0 |
| 10-2 Solid | 0.476 | 25.0 |
| 10-3 Solid | 0.500 | 29.5 |
| 10-4 Solid | 0.541 | 38.0 |
| 8-2 Solid | 0.570 | 34.5 |
| 8-3 Solid | 0.601 | 41.5 |
| 8-4 Solid | 0.654 | 48.0 |
| 8-2 Stranded | 0.604 | 34.5 |
| 8-3 Stranded | 0.637 | 42.0 |
| 8-4 Stranded | 0.695 | 51.5 |
| 6-2 Stranded | 0.700 | 44.5 |
| 6-3 Stranded | 0.739 | 56.0 |
| 6-4 Stranded | 0.807 | 68.5 |
| 4-2 Stranded | 0.836 | 62.0 |
| 4-3 Stranded | 0.885 | 80.0 |
| 4-4 Stranded | 0.971 | 99.5 |
| 3-3 Stranded | 0.990 | 94.0 |
| 3-4 Stranded | 1.085 | 118.0 |
| 2-2 Stranded | 0.956 | 81.5 |
| 2-3 Stranded | 1.014 | 109.5 |
| 2-4 Stranded | 1.115 | 138.0 |

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