

Conduits: directions for use

Below are a few short extracts taken from the relevant prescriptions.

VDE 0113/12.73

Metal tubing, pipes and conduits must be used in accordance with the prescribed safety standard.

Paragraph 10.3.1 states that all conduits must be designed to protect against the expected demands made on the product. This is to say, for example, that cable can only be fed through conduit if it is suitably protected from liquids, dust (IP-Protection) and other foreign substances.

Surfaces with which the laid conduits come into contact - such as edges, threads etc. should not damage the insulation of the conduit.

Fittings: directions for use

Conduits and fitting assemblies must be installed in accordance with VDE 0113.

It is not adequate just to feed the conduit into a housing. The conduit must be installed using a lock nut and fitting, which ensure a good electrical connection between the conduit and housing. The conduit must not reduce the protective capability of the housing. In order to ensure the effective installation of the conduit, it is important not only to use a suitable conduit but also to use the appropriate type of fitting. (see IEC-204)

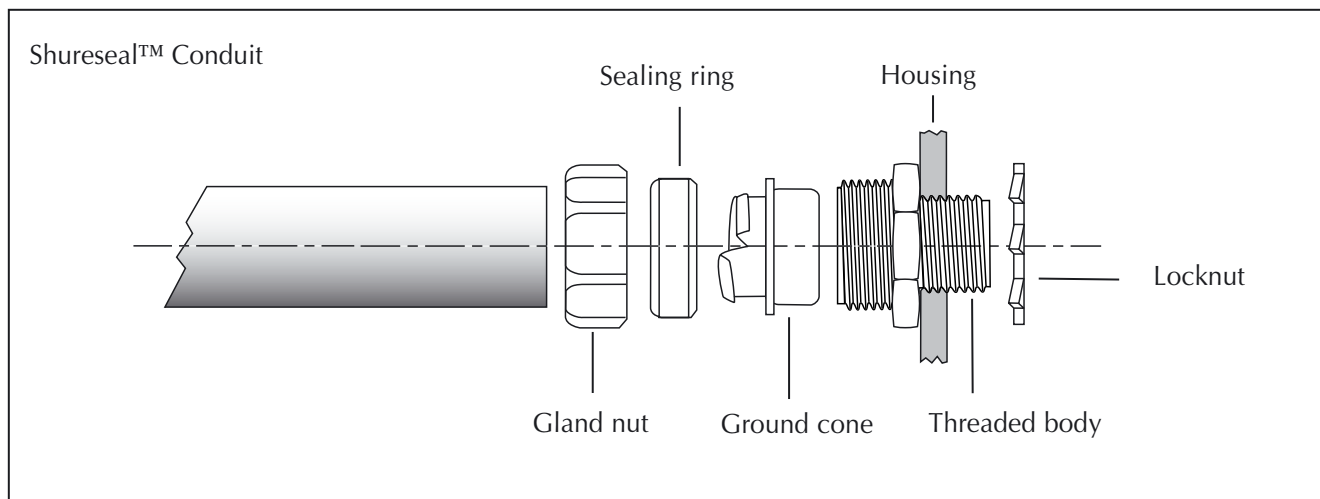
Specifications

Shureseal™ fittings and conduits satisfy the following specifications:

- for heavy industrial applications in accordance with DIN 49012.
- according to IP67 rating
- according to DIN/VDE 0650, section, 2.1.1b
- according to BS731, part 1
- and have the necessary approvals (UL/CSA and VDE)

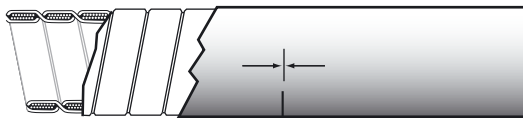
Installation

Installation is simple. The fitting screws easily onto the conduit, without the need for special tools. The fitting can be removed and re-used again at any time. The fitting also performs excellently against severe vibration. The conduit is not deformed by the fitting. In tests, the fittings have been shown to be extremely secure and guarantee a high level of security and reliability.

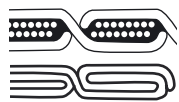


Flexible metallic liquidtight conduits**Type TBEF - universal**

- TBEF (now integrating the TBHT grade) conduit with heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Universal conduit for all liquidtight applications requiring good mechanical strength and flexibility: machinery, conveyors, etc.
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid and oil resistant, self-extinguishing PVC jacket
- High mechanical stability
- Tested and certified in accordance with DIN VDE 0605:1982-04 (File Nr: 24058-5410-0050 / 32CRB F41 / LR, Document Nr.: 131354)
- Marked lengths (every 1 m) for quick and easy measuring and cutting



Length marking



1/4" - 1 1/4"

1 1/2" - 4"

**Technical Information**

| | |
|--------------------------------|--|
| Outer jacket | PVC, self-extinguishing |
| Core | Galvanised steel |
| Packing | Cotton (up to 1 1/4") |
| Colour | Black or grey** |
| Temperature range | Static: -25°C to +105°C Flexing: -5°C to +105°C |
| Voltage breakdown (flash test) | > 2 kV |
| Insulation resistance | > 100 MOhm |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

** (Grey available upon request. Suffix = G, e.g. TBEF0250-50-G)

Approvals**Ordering Information**

| PRODUCT REF. | NOMINAL SIZE | METRIC SIZE | FOR PG CONNECTION | LENGTH | INTERNAL DIAMETER | EXTERNAL DIAMETER | MIN. BENDING RADIUS | MECHANICAL VALUES | | | WEIGHT | TYPE OF PACKAGING |
|--------------|--------------|-------------|-------------------|--------|-------------------|-------------------|---------------------|-----------------------|---------------------------|------------|--------|-------------------|
| | | | | | | | | MIN. TENSILE STRENGTH | MIN. COMPRESSION STRENGTH | | | |
| | [inch] | [mm] | | [m] | [mm] | [mm] | [mm] | [N] | [N] | [kg/100 m] | | |
| TBEF0250-50* | 1/4 | 10 | 7 | 50 | 6.2 | 11.4 | 45 | 500 | 1250 | 20.0 | A | |
| TBEF0312-50* | 5/16 | 12 | 9 | 50 | 10.0 | 14.4 | 50 | 500 | 1250 | 22.2 | A | |
| TBEF0375-10 | 3/8 | 16 | 11 / 13.5 | 10 | 12.5 | 17.8 | 50 | 1000 | 1250 | 41.9 | A | |
| TBEF0375-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.5 | 17.8 | 50 | 1000 | 1250 | 41.9 | B | |
| TBEF0500-10 | 1/2 | 20 | 16 | 10 | 16.0 | 21.1 | 75 | 1000 | 1250 | 48.1 | A | |
| TBEF0500-60 | 1/2 | 20 | 16 | 60 | 16.0 | 21.1 | 75 | 1000 | 1250 | 48.1 | B | |
| TBEF0750-10 | 3/4 | 25 | 21 | 10 | 21.0 | 26.4 | 90 | 1000 | 1250 | 68.9 | A | |
| TBEF0750-50 | 3/4 | 25 | 21 | 50 | 21.0 | 26.4 | 90 | 1000 | 1250 | 68.9 | C | |
| TBEF1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 110 | 1000 | 1250 | 97.5 | C | |
| TBEF1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 130 | 1000 | 1250 | 123.3 | C | |
| TBEF1500-15* | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 190 | 2500 | 1250 | 144.8 | C | |
| TBEF2000-15* | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 250 | 2500 | 1250 | 161.0 | C | |
| TBEF2500-15* | 2 1/2 | 75 | - | 15 | 63.3 | 72.6 | 480 | 2500 | 1250 | 298.0 | C | |
| TBEF3000-7* | 3 | - | - | 7 | 78.4 | 88.4 | 760 | 2500 | 1250 | 327.8 | C | |
| TBEF4000-7* | 4 | - | - | 7 | 102.1 | 113.8 | 860 | 2500 | 1250 | 394.4 | C | |

* Not VDE approved

Packaging sizes: A= box 370 x 370 x 180 mm

B= box 500 x 500 x 275 mm

C= reel 800 mm ø

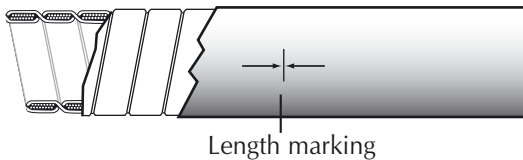
See page 224 for explanations on min. bending radius and temperature ranges

For T&B liquidtight fittings see pages 238 to 246

Shureseal™

Flexible metallic liquidtight conduits Type TBDL - dual listed UL & CSA

- Type TBDL with UL / CSA approval, heavy duty double interlocked / single interlocked galvanised steel core
- Export and North-America oriented applications: multi-national projects, power plant, ...
- Copper wire packing for improved grounding (up to 1 1/4")
- High performance, acid- and oil-resistant PVC jacket, self-extinguishing in accordance with UL360
- Extremely high mechanical stability
- Marked lengths (every 1 m) for simple measuring and cutting
- Silicone free



4.1

Technical Information

| | |
|-------------------|--|
| Outer jacket | PVC, self-extinguishing in 60 seconds |
| Core | Galvanised steel |
| Packing | Flat copper conductor (up to 1 1/4") |
| Colour | Black |
| Temperature range | Static: -25°C to +105°C (+120°C intermittent) Flexing: -5°C to +105°C UL rating: -10°C to +60°C CSA rating: -10°C to +75°C |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

Approvals



LL091693



E125517

Ordering Information

| PRODUCT REF. | NOMINAL SIZE | METRIC SIZE | FOR PG CONNECTION | LENGTH | INTERNAL DIAMETER | EXTERNAL DIAMETER | MIN. BENDING RADIUS | MECHANICAL VALUES | | WEIGHT | TYPE OF PACKAGING |
|--------------|--------------|-------------|-------------------|--------|-------------------|-------------------|---------------------|-----------------------|---------------------------|------------|-------------------|
| | | | | | | | | MIN. TENSILE STRENGTH | MIN. COMPRESSION STRENGTH | | |
| | [inch] | [mm] | | [m] | [mm] | [mm] | [mm] | [N] | [N] | [kg/100 m] | |
| TBDL0375-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.5 | 17.8 | 50 | 1000 | 4000 | 39.4 | B |
| TBDL0500-60 | 1/2 | 20 | 16 | 60 | 16.0 | 21.1 | 80 | 1000 | 4000 | 48.5 | B |
| TBDL0750-50 | 3/4 | 25 | 21 | 50 | 21.0 | 26.4 | 105 | 1000 | 1250 | 66.3 | C |
| TBDL1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 165 | 1000 | 4000 | 112.0 | C |
| TBDL1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 200 | 1000 | 1250 | 160.0 | C |
| TBDL1500-15 | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 280 | 2500 | 4000 | 193.5 | C |
| TBDL2000-15 | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 355 | 2500 | 1250 | 253.0 | C |

Packaging sizes: B = box 500 x 500 x 275 mm

C = reel 800 mm ø

See page 224 for explanations on min. bending radius and temperature ranges

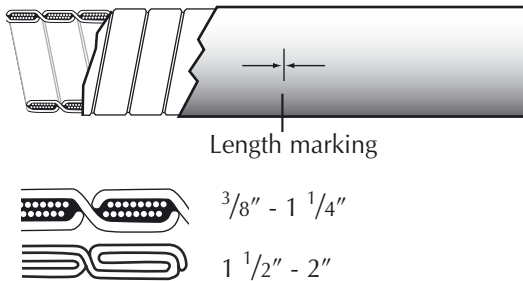
Other sizes available upon request - please contact your Sales Office

For T&B liquidtight fittings see pages 238 to 246

Flexible metallic liquidtight conduits

Type TBOR - oil resistant

- Type TBOR, with heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Applications in greasy environments: machine tools, assembly machines, hydraulic machinery
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant PVC outer jacket, self-extinguishing within 30 seconds
- High mechanical stability in accordance with DIN 49 012
- Marked lengths (every 1m) for quick and easy measuring and cutting

**Technical Information**

| | |
|--------------------------------|--|
| Outer jacket | PVC, self-extinguishing within 30 seconds |
| Core | Galvanised steel |
| Packing | Cotton (up to 1 1/4") |
| Colour | Black |
| Temperature range | Static: -25°C to +105°C Flexing: -5°C to +105°C |
| Voltage breakdown (flash test) | > 2 kV |
| Insulation resistance | > 100 MOhm |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

Ordering Information

| PRODUCT REF. | NOMINAL | METRIC | FOR PG | LENGTH | INTERNAL | EXTERNAL | MIN. | MECHANICAL VALUES | | WEIGHT | TYPE | | | |
|--------------|---------|--------|------------|--------|----------|----------|------|-------------------|----------|--------|-----------|---------|--------------|------------------|
| | SIZE | SIZE | CONNECTION | | | | | DIAMETER | DIAMETER | | | BENDING | MIN. TENSILE | MIN. COMPRESSION |
| | [inch] | [mm] | | | | | | [mm] | [mm] | | | RADIUS | STRENGTH | STRENGTH |
| | | | | [m] | [mm] | [mm] | [mm] | [N] | [N] | | PACKAGING | | | |
| TBOR0375-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.5 | 17.8 | 50 | 1000 | 1250 | 41.9 | B | | | |
| TBOR0500-60 | 1/2 | 20 | 16 | 60 | 16.0 | 21.1 | 75 | 1000 | 1250 | 48.1 | B | | | |
| TBOR0750-50 | 3/4 | 25 | 21 | 50 | 21.0 | 26.4 | 90 | 1000 | 1250 | 68.9 | C | | | |
| TBOR1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 110 | 1000 | 1250 | 97.5 | C | | | |
| TBOR1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 130 | 1000 | 1250 | 123.3 | C | | | |
| TBOR1500-15 | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 190 | 2500 | 1250 | 144.8 | C | | | |
| TBOR2000-15 | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 250 | 2500 | 1250 | 161.0 | C | | | |

Packaging sizes: B = box 500 x 500 x 275 mm

C = reel 800 mm ø

See page 224 for explanations on min. bending radius and temperature ranges

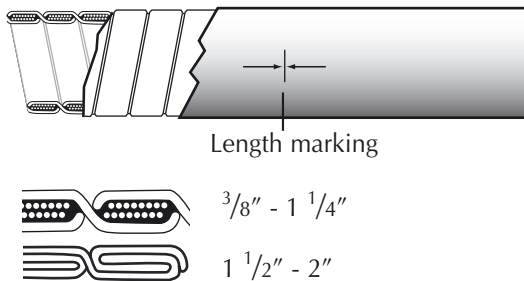
Other sizes available upon request - please contact your Sales Office

For T&B liquidtight fittings see pages 238 to 246

Shureseal™

Flexible metallic liquidtight conduits Type TBEHC - extreme heat/cold

- Applications at extreme temperatures: refrigeration, transportation, industrial HVAC, heavy industries
- Very high tolerance to extreme changes in temperature
- Heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant Polyester jacket, self-extinguishing according to UL 94 V-2
- High mechanical stability in accordance with DIN 49 012
- Marked lengths (every 1m) for quick and easy measuring and cutting



4.1

Technical Information

| | |
|--------------------------------|---|
| Outer jacket | Polyester, self-extinguishing within 30 seconds |
| Core | Galvanised steel |
| Packing | Cotton (up to 1 1/4") |
| Colour | Black |
| Temperature range | Static: -50°C to +130°C (+150°C intermittent) Flexing: -5°C to +130°C |
| Voltage breakdown (flash test) | > 2 kV |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

Ordering Information

| PRODUCT REF. | NOMINAL SIZE | METRIC SIZE | FOR PG CONNECTION | LENGTH [m] | INTERNAL DIAMETER [mm] | EXTERNAL DIAMETER [mm] | MIN. BENDING RADIUS [mm] | MECHANICAL VALUES | | | WEIGHT [kg/100 m] | TYPE OF PACKAGING |
|--------------|--------------|-------------|-------------------|------------|------------------------|------------------------|--------------------------|---------------------------|-------------------------------|-------|-------------------|-------------------|
| | | | | | | | | MIN. TENSILE STRENGTH [N] | MIN. COMPRESSION STRENGTH [N] | | | |
| | | | | | | | | | | | | |
| TBEHC0375-30 | 3/8 | 16 | 11 / 13.5 | 30 | 12.5 | 17.8 | 50 | 1000 | 1250 | 40.7 | B | |
| TBEHC0500-30 | 1/2 | 20 | 16 | 30 | 16.0 | 21.1 | 75 | 1000 | 1250 | 45.0 | B | |
| TBEHC0750-30 | 3/4 | 25 | 21 | 30 | 21.0 | 26.4 | 90 | 1000 | 1250 | 64.5 | C | |
| TBEHC1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 110 | 1000 | 1250 | 90.7 | C | |
| TBEHC1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 130 | 1000 | 1250 | 112.6 | C | |
| TBEHC1500-15 | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 190 | 2500 | 1250 | 134.5 | C | |
| TBEHC2000-15 | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 250 | 2500 | 1250 | 148.7 | C | |

Packaging sizes: B = box 500 x 500 x 275 mm
C = reel 800 mm ø

See page 224 for explanations on min. bending radius and temperature ranges

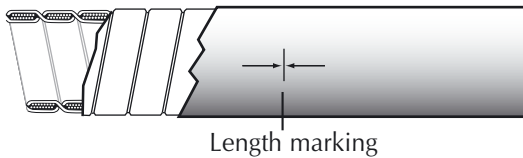
Other sizes available upon request - please contact your Sales Office

For T&B liquidtight fittings see pages 238 to 246

Special fittings (HT series) rated at 150°C are now available for high temperature applications - please contact your Sales Office for product availability

Flexible metallic liquidtight conduits Type TBZH - zero halogen

- Halogen free and low smoke outer jacket
- Ideal for applications where human lives can be a concern: public transportation, metro, train,...
- Heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant Olefin outer jacket, self-extinguishing within 30 seconds
- For use in safety areas (tunnels, public areas and transportation equipment)
- Marked lengths (every 1m) for quick and easy measuring and cutting
- NFF16-101 / NFF16-102 tested: I index = I3 (oxygen index = 40.7), F index = F1



Technical Information

| | |
|--------------------------------|--|
| Outer jacket | Olefin, self-extinguishing within 30 seconds |
| Core | Galvanised steel |
| Packing | Cotton (up to 1 1/4") |
| Colour | Black |
| Temperature range | Static: -25°C to +90°C Flexing: -5°C to +90°C |
| Voltage breakdown (flash test) | > 2 kV |
| Insulation resistance | > 100 MOhm |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

Ordering Information

| PRODUCT REF. | NOMINAL SIZE | METRIC SIZE | FOR PG CONNECTION | LENGTH | INTERNAL DIAMETER | EXTERNAL DIAMETER | MIN. BENDING RADIUS | MECHANICAL VALUES | | | WEIGHT [kg/100 m] | TYPE OF PACKAGING |
|--------------|--------------|-------------|-------------------|--------|-------------------|-------------------|---------------------|-----------------------|---------------------------|-------|-------------------|-------------------|
| | | | | | | | | MIN. TENSILE STRENGTH | MIN. COMPRESSION STRENGTH | | | |
| | | | | | | | | | [N] | [N] | | |
| TBZH0375-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.5 | 17.8 | 60 | 1000 | 1250 | 41.9 | B | |
| TBZH0500-60 | 1/2 | 20 | 16 | 60 | 16.0 | 21.1 | 90 | 1000 | 1250 | 48.1 | B | |
| TBZH0750-50 | 3/4 | 25 | 21 | 50 | 21.0 | 26.4 | 110 | 1000 | 1250 | 68.9 | C | |
| TBZH1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 130 | 1000 | 1250 | 97.5 | C | |
| TBZH1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 160 | 1000 | 1250 | 123.3 | C | |
| TBZH1500-15 | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 230 | 2500 | 1250 | 144.8 | C | |
| TBZH2000-15 | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 300 | 2500 | 1250 | 161.0 | C | |

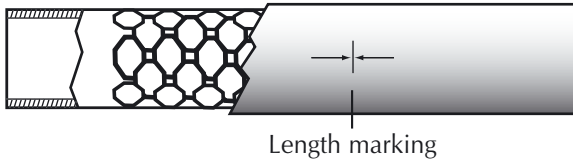
Packaging sizes: B = box 500 x 500 x 275 mm
C = reel 800 mm ø

For T&B liquidtight fittings see pages 238 to 246

Shureseal™

Flexible non-metallic liquidtight conduits Type LNMP - smooth outer surface

- UL and CSA approved
- Double layer construction offers a high level of mechanical stability for plastic tubing
- The Nylon lining between the 2 layers ensures a high level of flexibility
- High performance, durable acid- and oil resistant PVC outer jacket
- Perfectly designed for fittings which have to be safe, secure and electrically insulated
- Marked in lengths of 1 foot / 30.48 cm for quick and easy measuring and cutting
- High retention assured when used in association with T&B special fittings (Product Ref. 37XX and 63XX) (see pages 247 and 248)



4.1

Technical Information

| | |
|-------------------|--|
| Material | 2 layers of PVC with a woven Nylon fabric in between |
| Colour | Orange |
| Temperature range | -20°C to +60°C |
| System IP rating | IP66, when correctly installed with T&B liquidtight fittings |

Approvals



E 79308 (N)



LL018858

Ordering Information

| PRODUCT REF. | NOMINAL SIZE [inch] | METRIC SIZE [mm] | FOR PG CONNECTION | LENGTH [m] | INTERNAL DIAMETER [mm] | EXTERNAL DIAMETER [mm] | MIN. BENDING RADIUS [mm] | WEIGHT [kg/100 m] | TYPE OF PACKAGING |
|--------------|------------------------|---------------------|-------------------|---------------|---------------------------|---------------------------|-----------------------------|----------------------|-------------------|
| LNMP038-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.32 | 19.63 | 63.5 | 23.3 | D |
| LNMP050-60 | 1/2 | 20 | 16 | 60 | 15.75 | 23.62 | 76.2 | 33.3 | D |
| LNMP075-50 | 3/4 | 25 | 21 | 50 | 20.70 | 29.72 | 101.6 | 46.7 | D |
| LNMP100-30 | 1 | 32 | 29 | 30 | 26.16 | 36.58 | 152.4 | 63.3 | D |
| LNMP125-30 | 1 1/4 | 40 | 36 | 30 | 34.80 | 46.36 | 177.8 | 93.3 | D |
| LNMP150-15 | 1 1/2 | 50 | 42 | 15 | 40.26 | 52.83 | 203.2 | 120.0 | E |
| LNMP200-15 | 2 | 63 | 48 | 15 | 52.71 | 65.79 | 228.6 | 180.0 | E |

Packaging sizes: D = Box 860 x 860 x 165 mm
E = Box 1060 x 1060 x 195 mm

For T&B liquidtight fittings for non-metallic conduits see pages 247 and 248

Shureseal™

Flexible non-metallic liquidtight conduits Type EFC - with strengthened inner coil

- Highly flexible, liquidtight plastic tubing with strengthened inner coil
- UV-resistant and weatherproof
- High chemical resistance
- UL recognised under File No. E 96548
- CSA approved File No. LL 067241
- Crush-resistant due to stiffening effects of strengthened inner coil
- The ultra-smooth inner surface ensures that cables and conductors can be fed through very easily
- Can be used with plastic or metallic T&B "Bullet" fittings (see pages 249 to 253)



Technical Information

| | |
|-------------------|--|
| Material | PVC |
| Colour | Black or orange* or blue* |
| Temperature range | -18°C to +75°C (CSA) -18°C to +60°C (UL) |
| System IP rating | IP65, when correctly installed with T&B liquidtight fittings |

* Add suffix -1 for orange, -2 for blue to Product Ref. (e.g. EFC025-1 for orange conduit)



Ordering Information

| PRODUCT REF. | NOMINAL SIZE [inch] | METRIC SIZE [mm] | LENGTH [m] | INTERNAL DIAMETER [mm] | EXTERNAL DIAMETER [mm] | MIN. BENDING RADIUS [mm] | WEIGHT [kg/100 m] | TYPE OF PACKAGING |
|--------------|------------------------|---------------------|---------------|---------------------------|---------------------------|-----------------------------|----------------------|-------------------|
| EFC025 | 1/4 | 10 | 30.5 | 10.0 | 14.6 | 20 | 7.3 | reel |
| EFC038 | 3/8 | 16 | 30.5 | 12.3 | 18.0 | 25 | 10.7 | reel |
| EFC050 | 1/2 | 20 | 30.5 | 15.8 | 21.3 | 30 | 12.4 | reel |
| EFC075 | 3/4 | 25 | 30.5 | 20.8 | 26.7 | 40 | 15.3 | reel |
| EFC100 | 1 | 32 | 30.5 | 26.4 | 33.4 | 50 | 23.8 | reel |
| EFC125 | 1 1/4 | 40 | 30.5 | 35.1 | 42.2 | 60 | 31.6 | reel |
| EFC150 | 1 1/2 | 50 | 15.2 | 40.0 | 48.3 | 70 | 43.8 | reel |
| EFC200 | 2 | 63 | 15.2 | 51.3 | 60.3 | 85 | 59.5 | reel |

For T&B "Bullet" fittings see pages 249 to 253

Approvals



LL067241



E96548

Flexible conduits

Material specifications

4.1

This chart gives an indication of the capabilities of the Shureseal™ liquidtight flexible metallic conduits. It is extremely difficult to provide data on all possible combinations or conditions that can occur.

Therefore it is recommended that this information should be used as a guideline and that the conduit should be tested in the intended application by the user, to determine suitability. If you have specific requirements, please contact Technical Support.

Material specifications table

| CHEMICAL | TBEF | TBOR | TBHC | TBZH | TBDL | EFC | LNMP | PGS |
|---|------|------|------|------|------|-----|------|-----|
| OILS AND HYDROCARBONS | | | | | | | | |
| ASTM Oil No 1 | T | T | G | P | T | G | - | T |
| ASTM Oil No 2 | T | T | G | P | L | - | - | L |
| ASTM Oil No 3 | T | T | G | P | T | L | L | T |
| Diesel Oil | T | T | T | T | T | L | L | T |
| Lubricating Oil | L | L | G | L | L | G | G | L |
| Paraffin Oil | G | G | T | T | G | G | - | G |
| Petrol | G | G | L | T | G | - | - | G |
| Skydrol 500B | T | T | G | T | T | - | P | T |
| Transformer Oil | T | T | T | T | T | - | - | T |
| Vegetable Oils | T | T | T | T | T | - | G | T |
| ORGANIC SOLVENTS | | | | | | | | |
| Acetone | P | P | L | P | P | P | P | P |
| Benzene | P | P | L | P | P | P | P | P |
| Ethyl Alcohol | P | P | L | L | P | G | L | P |
| Ethylene Glycol | L | L | G | T | L | G | G | L |
| Eteon 12 | T | T | G | T | T | - | - | T |
| Methyl Alcohol | P | P | G | L | P | G | L | P |
| Methyl Ethyl Ketone | T | T | L | P | T | P | P | T |
| Toluene 100 % | P | P | L | L | P | P | P | P |
| Turpentine 100 % | L | L | T | L | L | L | L | L |
| White Spirit | T | T | T | L | T | - | - | T |
| ACIDS AND SALTS GIVING ACID SOLUTIONS | | | | | | | | |
| Acetic Acid 10 % | G | G | G | T | G | G | G | G |
| Acetic Acid 20% | L | L | G | T | L | - | - | L |
| Hydrochloric Acid 10 % | - | - | - | - | - | - | G | - |
| Hydrochloric Acid 20 % | L | L | L | P | L | G | - | L |
| Hydrochloric Acid 40 % | - | - | - | - | - | - | L | - |
| Lactic Acid (90%) | T | T | T | T | T | P | - | T |
| Oxalic Acid | G | G | T | T | G | G | G | G |
| Zinc Chloride | G | G | G | T | G | G | G | G |
| BASES AND SALTS GIVING BASIC SOLUTIONS | | | | | | | | |
| Aluminium Chloride (10%) | G | G | G | G | G | G | G | G |
| Sodium Hydroxide (20%) | T | T | G | G | T | G | G | T |
| Sodium Hydroxide (45%) | T | T | L | L | T | G | G | T |
| OTHERS | | | | | | | | |
| Ozone Gas | G | G | T | T | G | - | - | G |
| Sea Water | G | G | G | G | G | G | G | G |

- G = Good
- L = Limited
- P = Poor
- S = Swelling
- T = No data available
likely to have minor effect

Shureseal™

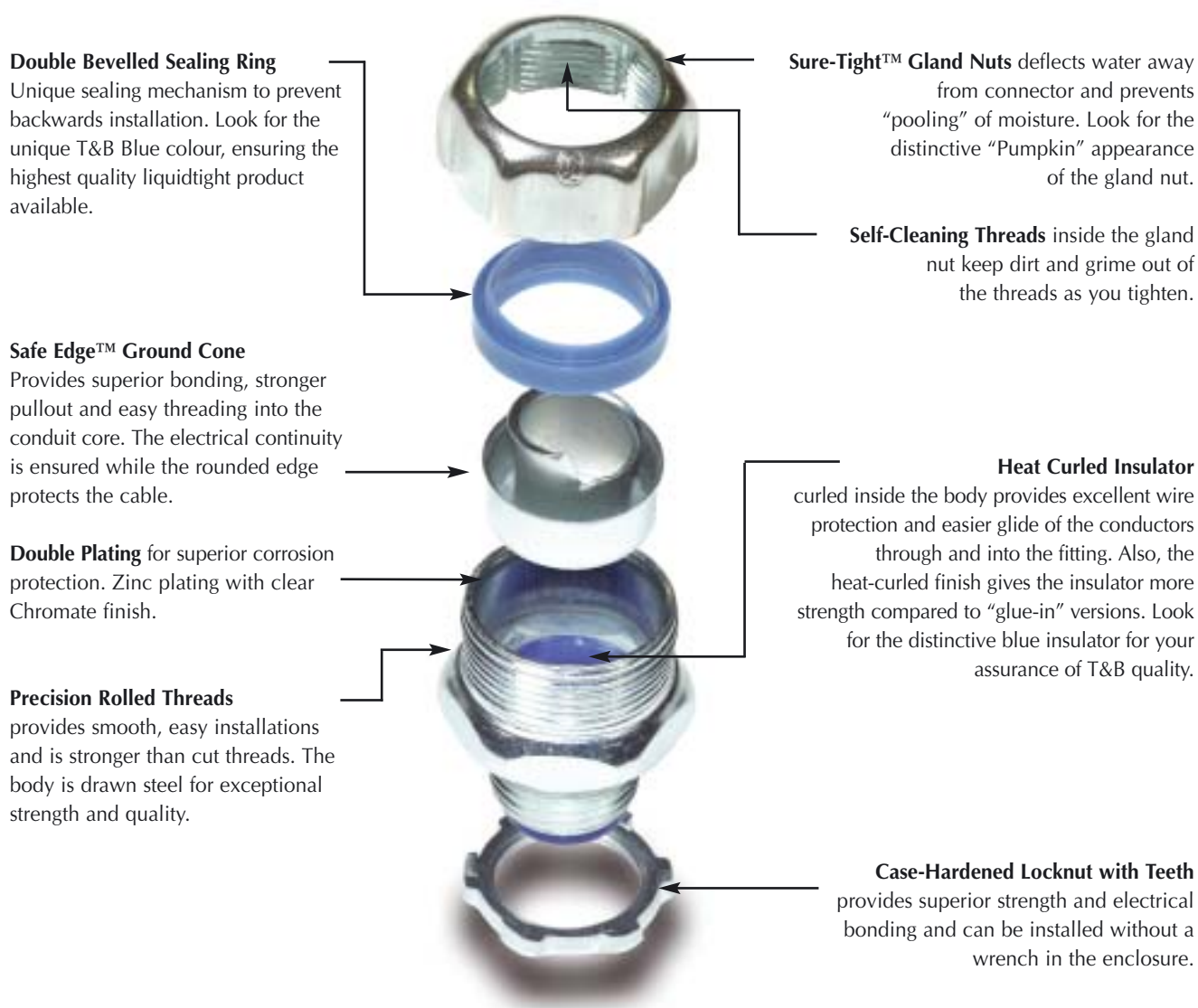
Liquidtight fittings for flexible metallic conduits

Product description

A standard fitting assembly is made of 4 pieces:

1. A screw body with a nylon throat on the connection side
2. The ground cone
3. The patented Nylon sealing ring
4. A gland nut

In addition, a locknut is supplied with the fittings with NPT thread.



Product description

When correctly installed, the Shureseal™ fittings produce a positive seal against oil, liquids, moisture and dust.

The main features of the assembly include:

- a high resistance to conduit pull-off and a great resistance to vibration from machines
- an excellent earth continuity
- simplicity of installation: ability to install quickly by hand (or with standard spanners or wrenches, but no special tools are needed)
- the fittings will not damage or distort the flexible conduit.
- the nylon throat bush makes it easier to pull wires through without risk of damage.
- the fittings have a rugged construction and can be disconnected and reused.
- available with N.P.T., Imperial, P.G. and metric (I.S.O.) threads
- excellent IP ratings

The patented ground cone design offers the following advantages:

- it compresses the metallic convolutions of the conduit, providing a high quality ground contact with low impedance and a high conduit pull-off resistance
- the single helical thread on the ground cone is easy to install without cross threading
- it tolerates variations in conduit diameters and convolution pitch
- its rolled-over edge protects the conductors

The patented sealing ring design has the following exclusive features:

- it grips and seals the conduit without damaging the conduit jacket
- its symmetrical shape assures a foolproof assembly
- it ensures a positive seal against oils, liquids, moisture and dust

The range of fittings includes 5 different styles:

- straight version
- 45° version
- 90° version
- "Chase" = compact version for confined spaces, behind panels and boxes
- "Female Hub" version, for connecting flexible conduit direct to rigid conduit and flexible conduits

Approvals

- C.E.G.B. approved (UK)
- UL listed Liquidtight File No E 23018
- ISO threads per BS 4568
- PG threads per DIN 40430
- Canadian Standard Association:
File No. 002884, File No. LR 052391, File No. LR 82069

Easy assembly without the requirement of any special tooling

1. Slide the gland nut and the sealing ring onto the conduit



2. Screw the ground cone into the conduit (between the convolutions) as far as possible



3. Screw the body and the gland nut together and tighten



The Thomas & Betts fittings are available in four different thread forms: NPT (National Pipe Taper), PG (Panzergewinde), Imperial and metric (I.S.O.).

NPT and PG threads have different contours (fig. 1 & 2). However a fitting with a male NPT thread (up to 2 inches) can easily be screwed into a part with a female PG thread (see table of compatibility for correspondences)

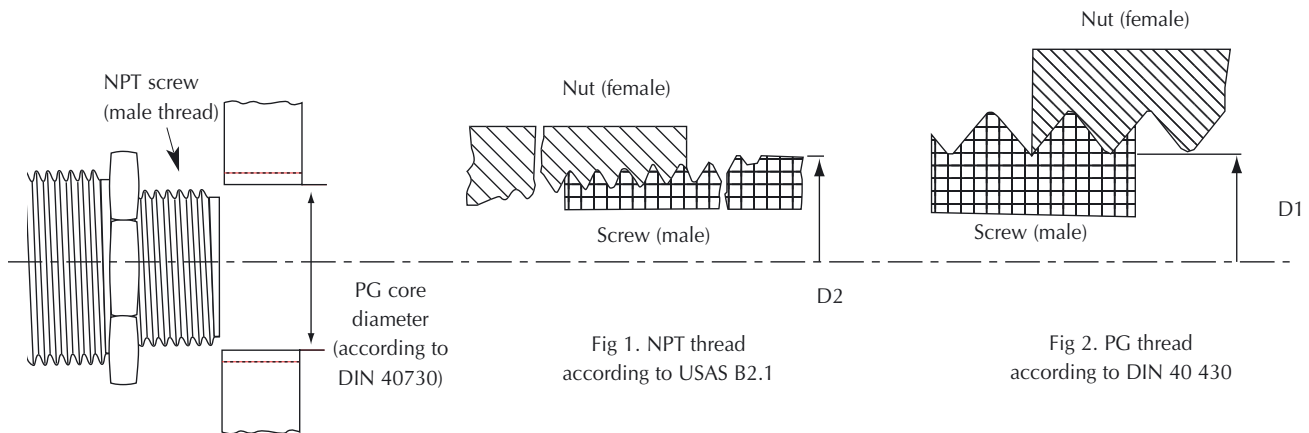


Fig 1. NPT thread according to USAS B2.1

Fig 2. PG thread according to DIN 40 430

Table of compatibility

| NPT MALE THREAD SIZE [inch] | MAX. OUTER DIAMETER D2 (ON NPT MALE THREAD) [mm] | | MIN. CORE DIAMETER D1 (ON PG FEMALE THREAD) [mm] | CORRESPONDING PG FEMALE THREAD SIZE |
|-----------------------------------|--|---|--|--|
| 3/8 | 16.66 | → | 17.26 | PG 11 |
| 3/8 | 16.66 | → | 19.06 | PG 13.5 |
| 1/2 | 20.96 | → | 21.16 | PG 16 |
| 3/4 | 26.44 | → | 26.78 | PG 21 |
| 1 | 33.25 | → | 35.48 | PG 29 |
| 1 1/4 | 41.91 | → | 45.48 | PG 36 |
| 1 1/2 | 47.80 | → | 52.48 | PG 42 |
| 2 | 59.61 | → | 57.78 | PG 48 |

Liquidtight fittings for flexible metallic conduits

General information

Technical Information

| | |
|-------------------------------|---------------------------------------|
| Conduit type | Shureseal™ flexible metallic conduit |
| Style | Straight, 90° and 45° |
| Thread | NPT, Metric (I.S.O.), PG and Imperial |
| IP rating | IP67 |
| Material | Galvanised steel chromate finish |
| Inner sleeve and sealing ring | Polyamide |
| Colour | Metallic |

Special fittings (HT series) rated at 150°C are now available for high temperature applications - please contact your Sales Office for product availability



Approvals



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E23018

Shureseal™

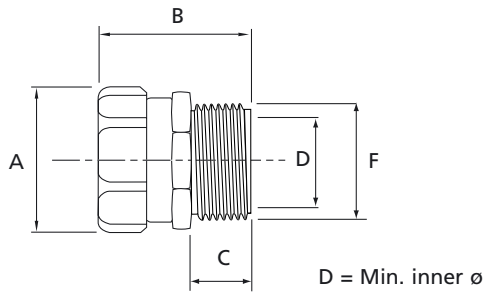
Liquidtight fittings for flexible
metallic conduits
Straight fittings



E23018



002884



Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE | DIMENSIONS | | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|---|----------------------------|----------------|------------|-----------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | F [mm] | | |
| STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD | | | | | | | | | |
| 9306* | 5/16 | M16 | 22 | 36 | 12 | 10.0 | 16.0 | 5.1 | 25 |
| 9307 | 5/16 | M20 | 22 | 36 | 12 | 10.0 | 20.0 | 5.1 | 25 |
| 9330* | 1/4 | M16 | 22 | 36 | 12 | 6.0 | 16.0 | 3.5 | 25 |
| 9331* | 1/4 | M20 | 22 | 36 | 12 | 6.0 | 20.0 | 3.5 | 25 |
| 9360 | 3/8 | M16 | 29 | 40 | 16 | 11.0 | 16.0 | 6.3 | 25 |
| 9361 | 3/8 | M20 | 29 | 40 | 16 | 11.0 | 20.0 | 6.3 | 25 |
| 9362 | 1/2 | M20 | 35 | 42 | 16 | 14.5 | 20.0 | 8.1 | 25 |
| 9363 | 3/4 | M25 | 42 | 45 | 16 | 20.0 | 25.0 | 12.6 | 25 |
| 9364 | 1 | M32 | 47 | 54 | 15 | 25.0 | 32.0 | 23.0 | 5 |
| STRAIGHT FITTING WITH PG THREAD | | | | | | | | | |
| 7329 | 1/4 | PG 7 | 12 | 23 | 6 | 5.6 | 12.2 | 2.2 | 25 |
| 7330* | 1/4 | PG 9 | 21 | 36 | 12 | 6.0 | 15.2 | 3.5 | 25 |
| 7360* | 5/16 | PG 9 | 26 | 36 | 12 | 10.0 | 15.2 | 5.1 | 25 |
| 7361 | 3/8 | PG 11 | 29 | 40 | 14 | 11.0 | 18.6 | 6.3 | 25 |
| 7362 | 3/8 | PG 13.5 | 29 | 40 | 14 | 11.0 | 20.4 | 6.3 | 25 |
| 7363 | 1/2 | PG 16 | 35 | 41 | 14 | 14.5 | 22.5 | 8.1 | 25 |
| 7364 | 3/4 | PG 21 | 42 | 43 | 14 | 20.0 | 28.3 | 12.6 | 25 |
| 7365 | 1 | PG 29 | 47 | 56 | 19 | 25.0 | 37.0 | 23.0 | 5 |
| 7366 | 1 1/4 | PG 36 | 58 | 67 | 21 | 33.5 | 47.0 | 41.4 | 5 |
| 7367 | 1 1/2 | PG 42 | 69 | 72 | 21 | 38.5 | 54.0 | 47.3 | 2 |
| 7368 | 2 | PG 48 | 83 | 81 | 21 | 49.5 | 59.3 | 72.0 | 1 |
| STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) | | | | | | | | | |
| 5229** | 1/4 | 1/4" | 21 | 35 | 12 | 6.0 | – | 3.5 | 25 |
| 5330** | 5/16 | 3/8" | 25 | 35 | 12 | 10.0 | – | 5.1 | 25 |
| 5331 | 3/8 | 1/2" | 29 | 38 | 14 | 11.0 | – | 6.3 | 25 |
| 5332 | 1/2 | 1/2" | 35 | 40 | 14 | 14.5 | – | 8.1 | 25 |
| 5333 | 3/4 | 3/4" | 42 | 41 | 14 | 20.0 | – | 12.6 | 25 |
| 5334-TB | 1 | 1" | 48 | 52 | 19 | 25.0 | – | 23.0 | 10 |
| 5335 | 1 1/4 | 1 1/4" | 58 | 64 | 21 | 33.5 | – | 41.4 | 5 |
| 5336 | 1 1/2 | 1 1/2" | 69 | 68 | 21 | 38.5 | – | 47.3 | 2 |
| 5337 | 2 | 2" | 83 | 78 | 22 | 49.5 | – | 72.0 | 5 |
| 5338 | 2 1/2 | 2 1/2" | 95 | 105 | 25 | 61.0 | – | 135.5 | 5 |
| 5339 | 3 | 3" | 114 | 108 | 25 | 75.0 | – | 168.8 | 5 |
| 5340 | 4 | 4" | 140 | 114 | 29 | 99.0 | – | 275.4 | 1 |
| STRAIGHT FITTING WITH IMPERIAL THREAD | | | | | | | | | |
| 6365 | 1 1/4 | 1 1/2" | 58 | 64 | 21 | 33.5 | – | 41.4 | 5 |
| 6366 | 1 1/2 | 2" | 69 | 68 | 21 | 38.5 | – | 47.3 | 2 |
| 6367 | 2 | 2 1/2" | 83 | 78 | 22 | 49.5 | – | 72.0 | 5 |

* The products with a * are not UL/CSA approved

** The products with a ** are not UL/CSA approved and are supplied without locknut

See pages 238 to 240 for product description and technical information

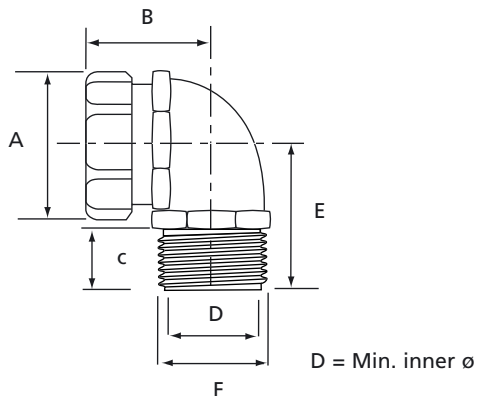
Liquidtight fittings for flexible
metallic conduits
90° fittings



E23018



002884



Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE | DIMENSIONS | | | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|----------------------------|----------------|------------|-----------|-----------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | | |
| 90° FITTING WITH METRIC (I.S.O.) THREAD | | | | | | | | | | |
| 9350 | 3/8 | M16 | 28 | 35 | 16 | 10.1 | 34 | 16.0 | 12.6 | 25 |
| 9351 | 3/8 | M20 | 28 | 35 | 16 | 10.1 | 34 | 20.0 | 12.6 | 25 |
| 9352-TB | 1/2 | M20 | 34 | 39 | 16 | 14.5 | 34 | 20.0 | 14.4 | 25 |
| 9353-TB | 3/4 | M25 | 42 | 43 | 16 | 20.0 | 38 | 25.0 | 20.2 | 10 |
| 9354-TB | 1 | M32 | 47 | 48 | 23 | 25.0 | 43 | 32.0 | 30.6 | 5 |
| 90° FITTING WITH PG THREAD | | | | | | | | | | |
| 7351 | 3/8 | PG 11 | 29 | 37 | 14 | 11.0 | 33 | 18.6 | 12.6 | 25 |
| 7352 | 3/8 | PG 13.5 | 29 | 37 | 14 | 11.0 | 33 | 20.4 | 12.6 | 25 |
| 7353 | 1/2 | PG 16 | 35 | 40 | 14 | 14.5 | 37 | 22.5 | 14.4 | 25 |
| 7354 | 3/4 | PG 21 | 42 | 44 | 14 | 20.0 | 39 | 28.3 | 20.2 | 5 |
| 7355 | 1 | PG 29 | 47 | 56 | 21 | 25.0 | 48 | 37.0 | 30.6 | 5 |
| 7356 | 1 1/4 | PG 36 | 58 | 70 | 21 | 33.5 | 56 | 47.0 | 54.0 | 5 |
| 7357 | 1 1/2 | PG 42 | 69 | 75 | 21 | 38.5 | 61 | 54.0 | 72.0 | 2 |
| 7358 | 2 | PG 48 | 83 | 87 | 24 | 49.5 | 66 | 59.3 | 103.5 | 1 |
| 90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) | | | | | | | | | | |
| 5351 | 3/8 | 1/2" | 29 | 35 | 14 | 11.0 | 33 | - | 12.6 | 25 |
| 5352 | 1/2 | 1/2" | 35 | 40 | 14 | 14.5 | 37 | - | 14.4 | 25 |
| 5353 | 3/4 | 3/4" | 42 | 45 | 14 | 20.0 | 39 | - | 20.2 | 10 |
| 5354 | 1 | 1" | 48 | 56 | 19 | 25.0 | 48 | - | 30.6 | 5 |
| 5355 | 1 1/4 | 1 1/4" | 58 | 70 | 21 | 33.5 | 56 | - | 54.0 | 5 |
| 5356 | 1 1/2 | 1 1/2" | 69 | 75 | 21 | 38.5 | 61 | - | 72.0 | 5 |
| 5357 | 2 | 2" | 83 | 287 | 22 | 49.5 | 66 | - | 103.5 | 2 |
| 5358 | 2 1/2 | 2 1/2" | 95 | 225 | 25 | 61.0 | 149 | - | 270.0 | 1 |
| 5359 | 3 | 3" | 114 | 260 | 25 | 75.0 | 219 | - | 393.8 | 1 |
| 5360 | 4 | 4" | 140 | 321 | 29 | 99.0 | 299 | - | 551.0 | 1 |
| 90° FITTING WITH IMPERIAL THREAD | | | | | | | | | | |
| 6355 | 1 1/4 | 1 1/2" | 58 | 64 | 21 | 33.5 | 56 | - | 54.0 | 5 |
| 6356 | 1 1/2 | 2" | 69 | 68 | 21 | 38.5 | 61 | - | 72.0 | 2 |

See pages 238 to 240 for product description and technical information

Shureseal™

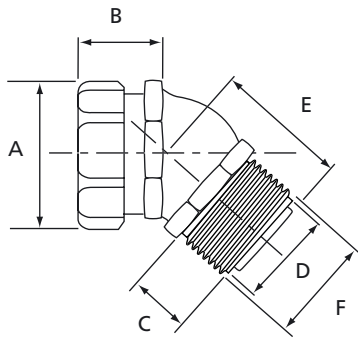
Liquidtight fittings for flexible
metallic conduits
45° fittings



E23018



002884



D = Min. inner ϕ



Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE | DIMENSIONS | | | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|----------------------------|----------------|------------|-----------|-----------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | | |
| 45° FITTING WITH METRIC (I.S.O.) THREAD | | | | | | | | | | |
| 9340 | 3/8 | M16 | 28 | 35 | 16 | 10.1 | 34 | 16.0 | 12.6 | 25 |
| 9341 | 3/8 | M20 | 28 | 35 | 16 | 10.1 | 34 | 20.0 | 12.6 | 25 |
| 9342 | 1/2 | M20 | 34 | 39 | 16 | 14.5 | 34 | 20.0 | 14.4 | 25 |
| 9343-TB | 3/4 | M25 | 42 | 43 | 16 | 20.0 | 38 | 25.0 | 20.2 | 10 |
| 9344 | 1 | M32 | 47 | 48 | 23 | 25.0 | 43 | 32.0 | 30.6 | 5 |
| 45° FITTING WITH PG THREAD | | | | | | | | | | |
| 7341 | 3/8 | PG 11 | 29 | 37 | 14 | 11.0 | 33 | 18.6 | 12.6 | 25 |
| 7342 | 3/8 | PG 13.5 | 29 | 37 | 14 | 11.0 | 33 | 20.4 | 12.6 | 25 |
| 7343 | 1/2 | PG 16 | 35 | 40 | 14 | 14.5 | 37 | 22.5 | 14.4 | 25 |
| 7344-TB | 3/4 | PG 21 | 42 | 44 | 14 | 20.0 | 39 | 28.3 | 20.2 | 5 |
| 7345 | 1 | PG 29 | 47 | 56 | 21 | 25.0 | 48 | 37.0 | 30.6 | 5 |
| 7346 | 1 1/4 | PG 36 | 58 | 70 | 21 | 33.5 | 56 | 47.0 | 54.0 | 5 |
| 7347 | 1 1/2 | PG 42 | 69 | 75 | 21 | 38.5 | 61 | 54.0 | 72.0 | 2 |
| 7348-TB | 2 | PG 48 | 83 | 87 | 24 | 49.5 | 66 | 59.3 | 103.5 | 1 |
| 45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) | | | | | | | | | | |
| 5341 | 3/8 | 1/2" | 29 | 35 | 14 | 11.0 | 33 | – | 12.6 | 25 |
| 5342 | 1/2 | 1/2" | 35 | 40 | 14 | 14.5 | 37 | – | 14.4 | 25 |
| 5343 | 3/4 | 3/4" | 42 | 45 | 14 | 20.0 | 39 | – | 20.2 | 10 |
| 5344 | 1 | 1" | 48 | 56 | 19 | 25.0 | 48 | – | 30.6 | 5 |
| 5345 | 1 1/4 | 1 1/4" | 58 | 70 | 21 | 33.5 | 56 | – | 54.0 | 5 |
| 5346 | 1 1/2 | 1 1/2" | 69 | 75 | 21 | 38.5 | 61 | – | 72.0 | 2 |
| 5347 | 2 | 2" | 83 | 287 | 22 | 49.5 | 66 | – | 103.5 | 1 |
| 5348* | 2 1/2 | 2 1/2" | 95 | 225 | 25 | 61.0 | 149 | – | 270.0 | 1 |
| 5349* | 3 | 3" | 114 | 260 | 25 | 75.0 | 219 | – | 393.8 | 1 |
| 5350* | 4 | 4" | 140 | 321 | 29 | 99.0 | 299 | – | 551.0 | 1 |
| 45° FITTING WITH IMPERIAL THREAD | | | | | | | | | | |
| 6346 | 1 1/2 | 2" | 69 | 68 | 21 | 38.5 | 61 | – | 72.0 | 2 |
| 6347 | 2 | 2 1/2" | 83 | 78 | 22 | 49.5 | 66 | – | 103.5 | 1 |

* The Product Ref. with a * are not UL/CSA approved
See pages 238 to 240 for product description and technical information

Shureseal™

Liquidtight fittings for flexible metallic conduits

"Chase" fittings, straight or right-angled

- High-performance fittings for Shureseal™ liquidtight conduits
- Special compact version (CHASE) for space-saving assembly, thanks to the male nipple (supplied with the fitting) that can be screwed into the female thread of the body
- Safe and effective installation without any efforts
- The fitting is composed of 6 parts: the threaded body, the steel ground cone, the nylon sealing ring, the gland nut, the sealing washer and a male nipple, ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts



Technical Information

| | |
|------------------------------------|---------------------------------------|
| Conduit type | Shureseal™ flexible metallic conduit |
| Style/thread | Straight or right angled, NPT threads |
| System IP rating | IP67 |
| Material | Zinc plated steel |
| Insulation throat and sealing ring | Polyamide |
| Colour | Metallic |

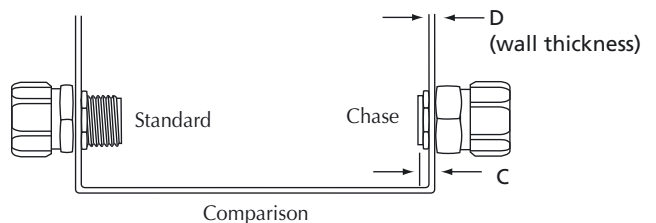
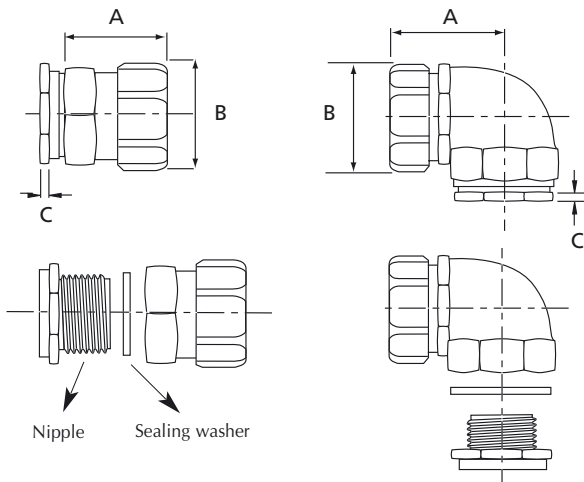
Approvals



002884



E23018



Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | DIMENSIONS | | | FOR WALL THICKNESS (D) UP TO [mm] | INSTALLATION HOLE DIAMETER [mm] | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|----------------------------|------------|-----------|-----------|--------------------------------------|------------------------------------|--------------------|----------------------|
| | | A [mm] | B [mm] | C [mm] | | | | |
| STRAIGHT CHASE FITTING - (SUPPLIED WITH MALE NIPPLE AND SEALING WASHER) | | | | | | | | |
| 5361 | 3/8 | 35 | 30 | 3.2 | 5 | 22.2 | 8.1 | 25 |
| 5362 | 1/2 | 35 | 36 | 4.7 | 5 | 22.2 | 9.9 | 25 |
| 5363 | 3/4 | 41 | 44 | 6.3 | 8 | 27.8 | 15.4 | 25 |
| 5364 | 1 | 52 | 50 | 6.3 | 10 | 33.3 | 29.0 | 10 |
| 5365 | 1 1/4 | 60 | 69 | 7.9 | 12 | 44.5 | 58.0 | 5 |
| 5366 | 1 1/2 | 69 | 75 | 9.5 | 13 | 50.8 | 68.0 | 2 |
| 5367 | 2 | 76 | 88 | 9.5 | 15 | 63.5 | 99.7 | 1 |
| 5368 | 2 1/2 | 100 | 107 | 11.1 | 15 | 76.2 | 199.4 | 1 |
| 5369 | 3 | 105 | 125 | 17.2 | 17 | 92.1 | 253.7 | 1 |
| 5370 | 4 | 111 | 155 | 19.0 | 19 | 117.5 | 407.7 | 1 |
| 90° CHASE FITTING - (SUPPLIED WITH MALE NIPPLE AND SEALING WASHER) | | | | | | | | |
| 5371 | 3/8 | 38 | 30 | 3.2 | 5 | 22.2 | 8.1 | 25 |
| 5372 | 1/2 | 37 | 36 | 4.7 | 5 | 22.2 | 9.9 | 25 |
| 5373 | 3/4 | 48 | 44 | 6.3 | 8 | 27.8 | 18.1 | 10 |
| 5374 | 1 | 57 | 50 | 6.3 | 10 | 33.3 | 30.8 | 5 |

Shureseal™

Liquidtight fittings for flexible metallic conduits

Female hub and adaptor fittings

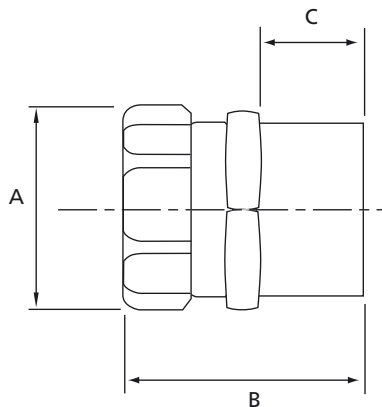
- High-performance special type fittings for Shureseal™ Liquidtight conduit
- **Special type hub fitting** with female (internal) thread for connecting flexible conduits to rigid conduits or for connecting 2 flexible conduits together (using male fittings)
- **Special type adaptor fitting** with female (internal) thread for connecting flexible conduits to AN-MS connector shells (such as MIL-C-5015 connectors and accessories)
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts



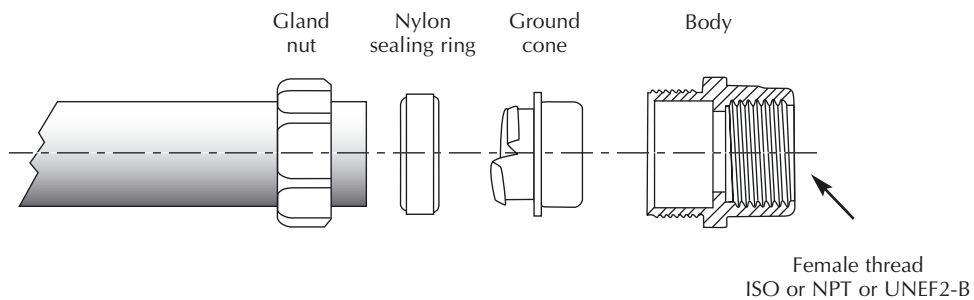
4.2

Technical Information

| | |
|------------------------------------|--|
| Conduit type | Shureseal™ flexible metallic conduits |
| Style | Straight |
| Thread | NPT, metric (I.S.O.) and UNEF female threads |
| System IP rating | IP67 |
| Material | Zinc plated steel |
| Insulation throat and sealing ring | Polyamide |
| Colour | Metallic |



Approvals



Liquidtight fittings for flexible
metallic conduits
Female hub and adaptor fittings

Ordering Information

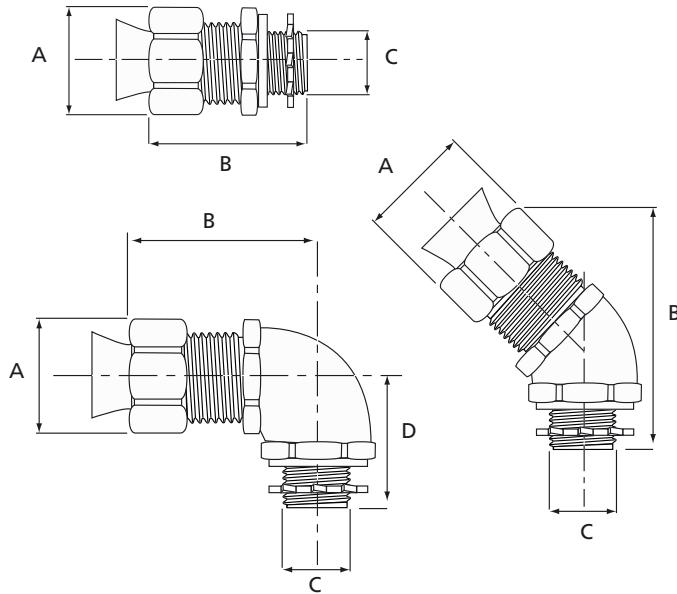
| PRODUCT REF. | FOR CONDUIT SIZE [inch] | INNER THREAD | AN-MS CONNECTOR SHELL SIZE | DIMENSIONS | | | WEIGHT [kg/100] | PACKAGING SIZE [pieces] |
|--|-------------------------------|----------------------|-------------------------------|------------|-----------|-----------|--------------------|----------------------------|
| | | | | A [mm] | B [mm] | C [mm] | | |
| STRAIGHT FEMALE HUB FITTING WITH METRIC (I.S.O.) THREAD | | | | | | | | |
| 9270 | 3/8 | M16 | – | 28 | 40 | 15 | 7.0 | 25 |
| 9271 | 3/8 | M20 | – | 30 | 40 | 15 | 7.2 | 25 |
| 9272 | 1/2 | M20 | – | 34 | 43 | 15 | 10.0 | 25 |
| 9273 | 3/4 | M25 | – | 42 | 45 | 15 | 14.5 | 25 |
| 9274 | 1 | M32 | – | 47 | 54 | 15 | 19.0 | 5 |
| STRAIGHT FEMALE HUB FITTING WITH NPT THREAD | | | | | | | | |
| 5271 | 3/8 | 1/2" | – | 25 | 40 | 15 | 7.2 | 25 |
| 5272 | 1/2 | 1/2" | – | 32 | 43 | 15 | 10.0 | 25 |
| 5273 | 3/4 | 3/4" | – | 38 | 44 | 15 | 14.5 | 25 |
| 5274 | 1 | 1" | – | 44 | 54 | 20 | 19.0 | 10 |
| 5275 | 1 1/4 | 1 1/4" | – | 58 | 64 | 20 | 32.6 | 5 |
| 5276 | 1 1/2 | 1 1/2" | – | 70 | 68 | 20 | 54.4 | 5 |
| 5277 | 2 | 2" | – | 88 | 78 | 25 | 72.5 | 5 |
| STRAIGHT ADAPTORS FITTING WITH UNEF THREAD | | | | | | | | |
| LTA03810 | 3/8 | 5/8" - 24 UNEF-2B | 10SL, 12, 12S | 25.4 | 11.9 | – | 6.8 | 25 |
| LTA03814 | 3/8 | 3/4" - 20 UNEF-2B | 14, 14S | 25.4 | 11.9 | – | 7.3 | 25 |
| LTA05014 | 1/2 | 3/4" - 20 UNEF-2B | 14, 14S | 31.8 | 23.8 | – | 8.7 | 25 |
| LTA05016 | 1/2 | 7/8" - 20 UNEF-2B | 16, 16S | 31.8 | 23.8 | – | 8.7 | 25 |
| LTA05018 | 1/2 | 1" - 20 UNEF-2B | 18 | 31.8 | 23.8 | – | 8.7 | 25 |
| LTA07516 | 3/4 | 7/8" - 20 UNEF-2B | 16, 16S | 38.1 | 27.0 | – | 13.6 | 25 |
| LTA07518 | 3/4 | 1" - 20 UNEF-2B | 18 | 38.1 | 27.0 | – | 13.6 | 25 |
| LTA07520 | 3/4 | 1 3/16" - 18 UNEF-2B | 20, 22 | 38.1 | 27.0 | – | 13.6 | 25 |
| LTA10020 | 1 | 1 3/16" - 18 UNEF-2B | 20, 22 | 43.7 | 44.5 | – | 21.0 | 10 |
| LTA10024 | 1 | 1 7/16" - 18 UNEF-2B | 25, 28 | 43.7 | 44.5 | – | 21.0 | 10 |

Shureseal™

Liquidtight fittings for non-metallic conduits

Type LNMP - metallic fittings

- Easy installation
- Inner polyamide sleeve for protection of conductors
- Liquid- and dust-tight in accordance with IP66
- High mechanical stability (high retention)
- Supplied with locknut and sealing washer



4.2

Technical Information

| | |
|---|-----------------------------------|
| Conduit type | Shureseal™ conduit type LNMP |
| Style/thread | Straight, 45°, 90°, NPT thread |
| System IP rating | IP66 |
| Material | Galvanised steel, chromate finish |
| Connecting sleeve and internal insulation | Polyamide 6.6 |
| Colour | Metallic |

Approvals



E23018

Ordering Information

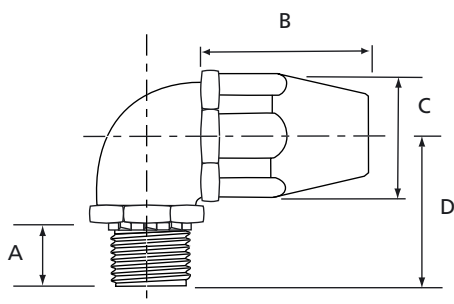
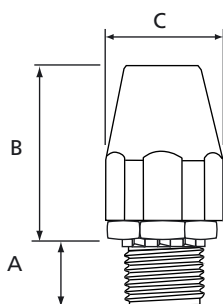
| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE [inch] | DIMENSIONS | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|-------------------------------|--------------------------|------------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | | |
| STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER) | | | | | | | | |
| 3720-TB* | 3/8 | 1/2 | 29.4 | 51.0 | 12.0 | - | 8.2 | 25 |
| 3721-TB | 1/2 | 1/2 | 34.9 | 54.0 | 16.0 | - | 9.1 | 25 |
| 3722-TB | 3/4 | 3/4 | 41.3 | 57.2 | 21.0 | - | 13.6 | 25 |
| 3723 | 1 | 1 | 47.6 | 63.5 | 26.0 | - | 23.6 | 10 |
| 3724-TB | 1 1/4 | 1 1/4 | 60.3 | 76.2 | 35.0 | - | 40.0 | 5 |
| 3725 | 1 1/2 | 1 1/2 | 69.9 | 85.7 | 41.0 | - | 59.0 | 2 |
| 3726 | 2 | 2 | 89.7 | 92.1 | 50.0 | - | 118.0 | 1 |
| 45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER) | | | | | | | | |
| 3730-TB* | 3/8 | 1/2 | 29.4 | 51.6 | 12.0 | - | 5.4 | 25 |
| 3731-TB | 1/2 | 1/2 | 34.9 | 65.1 | 16.0 | - | 8.2 | 25 |
| 3732 | 3/4 | 3/4 | 41.3 | 76.2 | 21.0 | - | 20.8 | 10 |
| 3733-TB | 1 | 1 | 47.6 | 88.9 | 26.0 | - | 31.2 | 5 |
| 3734-TB | 1 1/4 | 1 1/4 | 60.3 | 104.8 | 35.0 | - | 54.4 | 5 |
| 3735-TB | 1 1/2 | 1 1/2 | 69.9 | 123.8 | 41.0 | - | 77.0 | 2 |
| 90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER) | | | | | | | | |
| 3740* | 3/8 | 1/2 | 29.4 | 41.3 | 12.0 | 33.3 | 5.0 | 25 |
| 3741 | 1/2 | 1/2 | 34.9 | 44.5 | 16.0 | 35.7 | 7.7 | 25 |
| 3742 | 3/4 | 3/4 | 41.3 | 57.2 | 21.0 | 39.7 | 22.6 | 10 |
| 3743-TB | 1 | 1 | 47.6 | 65.1 | 26.0 | 47.6 | 30.7 | 5 |
| 3744-TB | 1 1/4 | 1 1/4 | 60.3 | 82.6 | 35.0 | 57.2 | 54.4 | 5 |
| 3745 | 1 1/2 | 1 1/2 | 69.9 | 88.9 | 41.0 | 60.3 | 77.0 | 2 |
| 3746-TB | 2 | 2 | 89.7 | 104.8 | 53.2 | 73.0 | 145.0 | 1 |

* The Product Ref. with a * are not UL approved

Liquidtight fittings for non-metallic conduits

Type LNMP - plastic fittings

- Easy installation
- High strength, chemical resistant, non-burning, non dripping thermoplastic construction
- Smooth insulated body throughout for maximum dielectric strength
- Ideal for corrosion resistant applications
- Liquid- and dust-tight in accordance with IP66
- Serrated design provides high mechanical pullout strength
- Supplied with steel locknut and sealing 'O' ring



Technical Information

| | |
|------------------|--|
| Conduit type | Shureseal™ conduit type LNMP |
| Style/thread | Straight, 90° |
| System IP rating | IP66 |
| Material | Body: thermoplastic Gland nut: thermoplastic 'O' Ring: Neoprene Locknut: Steel, case hardened and zinc plated |

Approvals

MEETS
COAST
GUARD

CG293

E23018

Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE [inch] | DIMENSIONS | | | | QUANTITY [pieces] |
|--|-------------------------------|--------------------------|------------|-----------|-----------|-----------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | |
| STRAIGHT PLASTIC FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING 'O' RING) | | | | | | | |
| 6302 | 1/2 | 1/2 | 37.6 | 57.9 | 14.5 | – | 20 |
| 6303 | 3/4 | 3/4 | 44.7 | 62.5 | 19.1 | – | 10 |
| 6304 | 1 | 1 | 53.3 | 67.6 | 24.4 | – | 5 |
| 6305 | 1 1/4 | 1 1/4 | 67.8 | 78.5 | 32.0 | – | 5 |
| 90° PLASTIC FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING 'O' RING) | | | | | | | |
| 6322 | 1/2 | 1/2 | 37.6 | 39.6 | 14.5 | 39.9 | 20 |
| 6323 | 3/4 | 3/4 | 44.7 | 44.2 | 19.1 | 43.4 | 10 |
| 6324 | 1 | 1 | 53.3 | 45.2 | 24.4 | 50.8 | 5 |
| 6325 | 1 1/4 | 1 1/4 | 67.8 | 54.1 | 32.0 | 61.2 | 5 |

Shureseal™

Liquidtight fittings for non-metallic conduits

Type EFC - plastic Bullet fittings

- Liquid-tight, dust-tight and oil-resistant
- Thomas & Betts patented quick connecting feature designed to prevent unlocking
- The spiral-shaped EFC conduit coil locks into fitting
- No loose pieces - secure against vibration
- Supplied with sealing washer (O ring)
- Fittings with NPT threads are supplied with locknut

Technical Information

| | |
|---------------------|---|
| Conduit type | Shureseal™ conduit type EFC |
| Style/thread | Straight, 45°, 90°, NPT and metric (I.S.O.) threads |
| IP rating | IP65 |
| Material | UV-resistant thermoplastic |
| Locknut | Zinc plated steel |
| Sealing washer | Nitryl |
| Colour | Black |
| Temperature range | -45°C to +105°C |
| Flammability rating | Self-extinguishing according to UL 94 V-2 |



4.2

Approvals



LR52391



E23018

Fig. 1

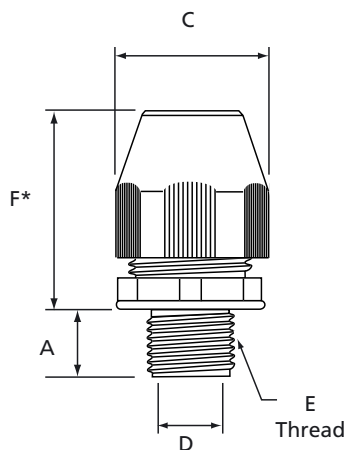


Fig. 2

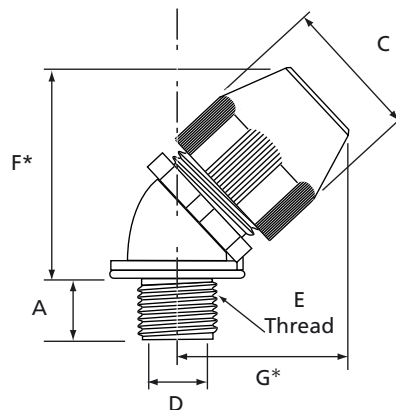
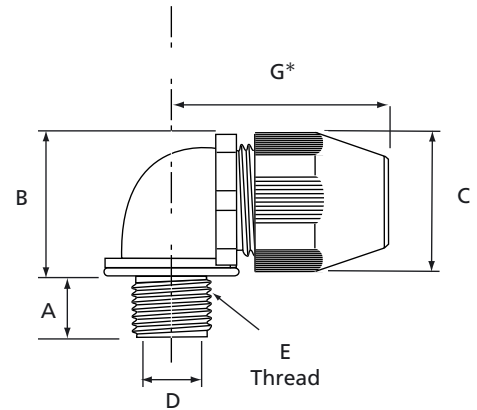


Fig. 3



* Variable dimensions

Liquidtight fittings for non-metallic
conduits

Type EFC - plastic Bullet fittings

Ordering Information

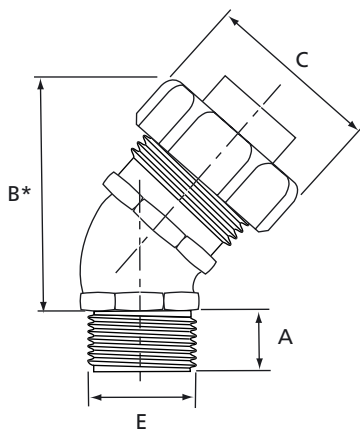
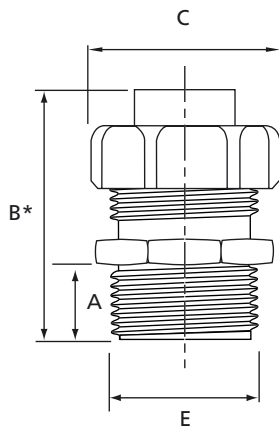
| PRODUCT REF. | THREAD | THREAD SIZE | DIMENSIONS | | | D MIN. THROAT | F* | G* | WEIGHT | QUANTITY |
|---|----------------|-------------|------------|-----------|-----------|------------------|-----------------|-----------------|--------|----------|
| | SIZE [inch] | E | A [mm] | B [mm] | C [mm] | DIAMETER [mm] | APPROX. [mm] | APPROX. [mm] | | |
| STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD - FIG.1 | | | | | | | | | | |
| LT38P-ISO20 | 3/8 | M20 | 14.5 | – | 34.4 | 10.6 | 40.5 | – | 3.9 | 20 |
| LT50P-ISO20 | 1/2 | M20 | 14.5 | – | 36.8 | 14.0 | 41.6 | – | 4.1 | 20 |
| LT75P-ISO25 | 3/4 | M25 | 14.8 | – | 44.2 | 18.8 | 44.6 | – | 6.3 | 10 |
| STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) - FIG.1 | | | | | | | | | | |
| LT38P | 3/8 | 1/2" | 14.5 | – | 34.4 | 10.6 | 40.5 | – | 3.9 | 20 |
| LT50P | 1/2 | 1/2" | 14.5 | – | 36.8 | 14.0 | 41.6 | – | 4.1 | 20 |
| LT75P | 3/4 | 3/4" | 14.8 | – | 44.2 | 18.8 | 44.6 | – | 6.3 | 10 |
| LT100P | 1 | 1" | 18.4 | – | 52.5 | 23.9 | 48.8 | – | 9.9 | 5 |
| LT125P | 1 1/4 | 1 1/4" | 19.1 | – | 63.4 | 31.9 | 55.0 | – | 15.2 | 5 |
| LT150P | 1 1/2 | 1 1/2" | 19.5 | – | 70.7 | 36.9 | 59.8 | – | 21.3 | 2 |
| LT200P | 2 | 2" | 20.2 | – | 85.4 | 47.8 | 66.2 | – | 34.0 | 1 |
| 90° FITTING WITH METRIC (I.S.O.) THREAD - FIG.3 | | | | | | | | | | |
| LT938P-ISO20 | 3/8 | M20 | 14.5 | 35.0 | 34.4 | 10.6 | – | 47.8 | 4.9 | 20 |
| LT950P-ISO20 | 1/2 | M20 | 14.5 | 37.8 | 36.8 | 14.0 | – | 50.4 | 4.9 | 20 |
| LT975P-ISO25 | 3/4 | M25 | 14.8 | 45.5 | 44.2 | 18.8 | – | 56.0 | 7.8 | 10 |
| 90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) - FIG.3 | | | | | | | | | | |
| LT938P | 3/8 | 1/2" | 14.5 | 35.0 | 34.4 | 10.6 | – | 47.8 | 4.9 | 10 |
| LT950P | 1/2 | 1/2" | 14.5 | 37.8 | 36.8 | 14.0 | – | 50.4 | 4.9 | 10 |
| LT975P | 3/4 | 3/4" | 14.8 | 45.5 | 44.2 | 18.8 | – | 56.2 | 7.8 | 10 |
| LT9100P | 1 | 1" | 18.4 | 53.4 | 44.2 | 23.9 | – | 63.7 | 12.6 | 5 |
| LT9125P | 1 1/4 | 1 1/4" | 19.1 | 65.1 | 52.5 | 31.9 | – | 72.5 | 21.3 | 2 |
| LT9150P | 1 1/2 | 1 1/2" | 19.5 | 72.5 | 63.4 | 36.9 | – | 79.9 | 36.3 | 2 |
| LT9200P | 2 | 2" | 20.2 | 87.2 | 70.7 | 47.8 | – | 93.3 | 40.8 | 1 |
| 45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) - FIG.2 | | | | | | | | | | |
| LT438P | 3/8 | 1/2" | 14.5 | – | 34.4 | 10.6 | 39.0 | 35.1 | 4.8 | 20 |
| LT450P | 1/2 | 1/2" | 14.5 | – | 36.8 | 14.0 | 40.4 | 37.8 | 5.0 | 20 |
| LT475P | 3/4 | 3/4" | 14.8 | – | 44.2 | 18.8 | 46.3 | 45.5 | 7.4 | 10 |
| LT4100P | 1 | 1" | 18.4 | – | 52.5 | 23.9 | 51.7 | 53.4 | 11.7 | 5 |
| LT4125P | 1 1/4 | 1 1/4" | 19.0 | – | 43.4 | 31.9 | 60.6 | 65.1 | 20.9 | 5 |
| LT4150P | 1 1/2 | 1 1/2" | 19.5 | – | 70.7 | 36.9 | 66.1 | 72.5 | 24.7 | 2 |
| LT4200P | 2 | 2" | 20.2 | – | 85.4 | 47.8 | 77.5 | 87.2 | 38.1 | 1 |

* Dimensions F and G are after assembly (approx.)

Liquidtight fittings for non-metallic conduits

Type EFC - metallic Bullet fittings

- Metallic fitting, designed for type EFC flexible plastic conduit
- Liquid-tight, dust-tight and oil-resistant
- Robust construction, ideal for demanding applications like in the railway industry (can be used with other kind of conduits and hoses commonly used in the railway industry, such as textile inserted rubber hoses,...)
- Liquid-tight, dust-tight and oil-resistant
- Thomas & Betts patented quick connecting feature designed to prevent unlocking
- Separate rotating attachment for easy fitting of conduit
- Spiral-shaped EFC conduit coil locks into fitting
- No loose pieces - secure against vibration
- Delivered with locknut



Technical Information

| | |
|--------------|---|
| Conduit type | Shureseal™ conduit type EFC |
| Style/thread | Straight, 45°, 90°, NPT and Metric (I.S.O.) threads |
| IP rating | IP65 |
| Material | Body: zinc plated steel Gland nut: zinc steel Insert: nylon |

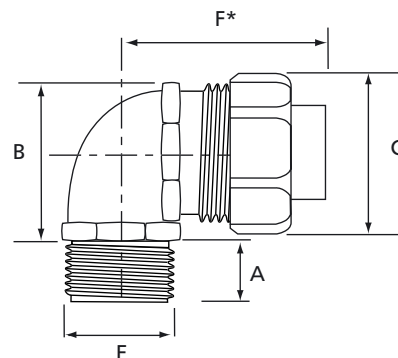
Approvals



LR52391



E23018



Liquidtight fittings for non-metallic
conduits

Type EFC - metallic Bullet fittings

Ordering Information

| PRODUCT REF. | CONDUIT SIZE [inch] | THREAD SIZE E | DIMENSIONS | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|------------------------|------------------|------------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | F [mm] | | |
| STRAIGHT FITTING WITH METRIC (I.S.O) THREAD - FIG.1 | | | | | | | | |
| LT38M-ISO20 | 3/8 | M20 | 14.3 | 38.1(*) | 29.4 | – | 5.8 | 25 |
| LT50M-ISO20 | 1/2 | M20 | 14.3 | 39.7(*) | 34.9 | – | 7.7 | 25 |
| LT75M-ISO25 | 3/4 | M25 | 15.9 | 41.2(*) | 42.1 | – | 10.9 | 25 |
| STRAIGHT FITTING WITH NPT THREAD - FIG.1 | | | | | | | | |
| LT38M | 3/8 | 3/8" | 14.3 | 38.1(*) | 29.4 | – | 5.8 | 25 |
| LT50M | 1/2 | 1/2" | 14.3 | 39.7(*) | 34.9 | – | 7.7 | 25 |
| LT75M | 3/4 | 3/4" | 15.9 | 41.2(*) | 42.1 | – | 10.9 | 25 |
| LT100M | 1 | 1" | 19.0 | 52.4(*) | 47.6 | – | 16.1 | 10 |
| LT125M | 1 1/4 | 1 1/4" | 20.6 | 63.5(*) | 60.3 | – | 28.9 | 5 |
| LT150M | 1 1/2 | 1 1/2" | 20.6 | 68.2(*) | 69.8 | – | 46.7 | 2 |
| LT200M | 2 | 2" | 20.6 | 77.8(*) | 88.1 | – | 69.9 | 1 |
| 90° FITTING WITH METRIC (I.S.O) THREAD - FIG.3 | | | | | | | | |
| LT938M-ISO20 | 3/8 | M20 | 15.9 | 33.3 | 29.4 | 34.9(*) | 9.4 | 25 |
| LT950M-ISO20 | 1/2 | M20 | 15.9 | 36.5 | 34.9 | 39.7(*) | 13.2 | 25 |
| LT975M-ISO25 | 3/4 | M25 | 15.9 | 44.4 | 42.1 | 44.4(*) | 18.1 | 25 |
| 90° FITTING WITH NPT THREAD - FIG.3 | | | | | | | | |
| LT938M | 3/8 | 3/8" | 15.9 | 33.3 | 29.4 | 34.9(*) | 9.4 | 25 |
| LT950M | 1/2 | 1/2" | 15.9 | 36.5 | 34.9 | 39.7(*) | 13.2 | 25 |
| LT975M | 3/4 | 3/4" | 15.9 | 44.4 | 42.1 | 44.4(*) | 18.1 | 25 |
| LT9100M | 1 | 1" | 20.6 | 49.2 | 47.6 | 55.5(*) | 30.2 | 10 |
| LT9125M | 1 1/4 | 1 1/4" | 20.6 | 63.5 | 60.3 | 69.8(*) | 55.7 | 5 |
| LT9150M | 1 1/2 | 1 1/2" | 20.6 | 71.4 | 69.8 | 74.6(*) | 76.4 | 2 |
| LT9200M | 2 | 2" | 22.2 | 88.9 | 88.1 | 87.3(*) | 116.6 | 1 |
| 45° FITTING WITH METRIC (I.S.O) THREAD - FIG.2 | | | | | | | | |
| LT438M-ISO20 | 3/8 | M20 | 14.3 | 49.8(*) | 29.4 | – | 7.7 | 25 |
| LT450M-ISO20 | 1/2 | M20 | 14.3 | 47.6(*) | 34.9 | – | 14.2 | 25 |
| 45° FITTING WITH NPT THREAD - FIG.2 | | | | | | | | |
| LT438M | 3/8 | 3/8" | 14.3 | 49.8(*) | 29.4 | – | 7.7 | 25 |
| LT450M | 1/2 | 1/2" | 14.3 | 47.6(*) | 34.9 | – | 14.2 | 25 |
| LT475M | 3/4 | 3/4" | 14.3 | 54.0(*) | 42.1 | – | 18.6 | 10 |
| LT4100M | 1 | 1" | 20.6 | 57.1(*) | 47.6 | – | 25.5 | 5 |
| LT4125M | 1 1/4 | 1 1/4" | 20.6 | 69.8(*) | 60.3 | – | 49.6 | 5 |
| LT4150M | 1 1/2 | 1 1/2" | 20.6 | 69.8(*) | 69.8 | – | 68.0 | 2 |
| LT4200M | 2 | 2" | 22.2 | 98.4(*) | 88.1 | – | 99.8 | 1 |

Note: dimensions shown with a (*) are after assembly (approx.)

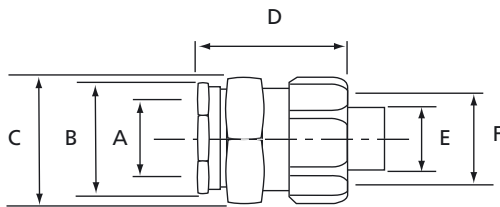
Liquidtight fittings for non-metallic conduits

Type EFC - metallic Bullet, Chase version

- Metallic fitting, designed for type EFC flexible plastic conduit Special version (Chase) for space saving assembly, thanks to the male nipple that can be screwed into the female thread of the body
- Liquid-tight, dust-tight and oil-resistant
- Robust construction, ideal for demanding applications like in the railway industry (can be used with other kind of conduits and hoses commonly used in the railway industry, such as textile inserted rubber hoses,...)
- Spiral-shaped EFC conduit coil locks into fitting
- The fitting is composed of 5 components: nipple with insulation throat, o-ring, body, insert and gland nut (Product Ref. LT6275MI also includes an additional sleeve)

Technical Information

| | |
|--------------|--|
| Conduit type | Shureseal™ conduit type EFC |
| Style/thread | Straight |
| IP rating | IP65 |
| Material | Body: zinc plated steel Gland nut: zinc plated steel Insert: nylon O-ring: neoprene |



Ordering Information

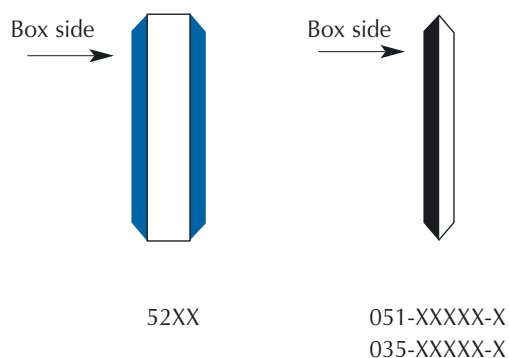
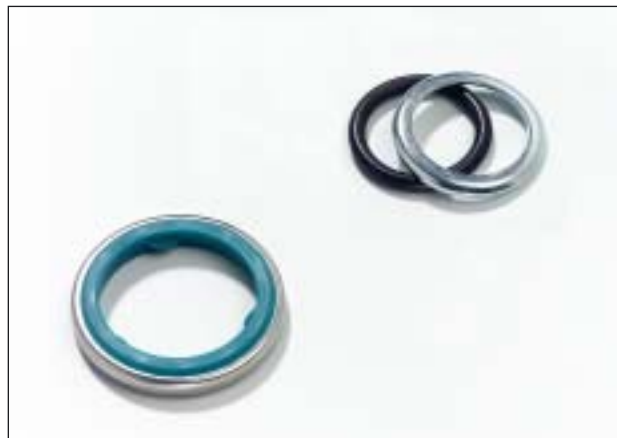
| PRODUCT REF. | FOR CONDUIT SIZE [inch] | DIMENSIONS | | | | | |
|--------------|-------------------------------|------------|----------------------|----------------------|-----------------|------|------|
| | | ø A* | B | C | D | ø E* | ø F* |
| | | [mm] | ACROSS FLATS [mm] | ACROSS FLATS [mm] | APPROX. [mm] | [mm] | [mm] |
| LT638MI | 3/8 | 14.5 | 24 | 30 | 30 | 12.4 | 18.4 |
| LT650MI | 1/2 | 14.5 | 24 | 30 | 30 | 15.4 | 22.0 |
| LT675MI | 3/4 | 18.0 | 32 | 36 | 36 | 20.0 | 29.0 |
| LT6100MI | 1 | 23.5 | 40 | 41 | 41 | 26.0 | 35.0 |
| LT6125MI | 1 1/4 | 31.0 | 45 | 60 | 60 | 34.0 | 44.5 |
| LT6150MI | 1 1/2 | 38.0 | 54 | 65 | 65 | 39.0 | 50.0 |
| LT6275MI | – | 60.0 | 78 | 93 | 125 | 65.0 | 70.0 |

* ø A = inner diameter in fitting
ø E = min. inner diameter of conduit
ø F = max. outer diameter of conduit

Shureseal™

Accessories for fittings Sealing washers

- Design locks resilient sealing material in steel
- Steel retainer protects seal from extruding out under torque and limits compression to an optimum predetermined value; provides high quality seal
- Resilient material flows and seals rough surfaces



Technical Information

| | |
|--------------|---|
| Fitting Type | Shureseal™ and Shureflex™ fittings |
| Style/thread | NPT, Metric (I.S.O.) and Imperial Threads |
| Material | Chromated galvanised steel, with blue Buna-N rubber or black synthetic rubber |
| Colour | Metallic |

Approvals



002884



E13938

Ordering Information

| PRODUCT REF. | THREAD SIZE | WEIGHT [kg/100] | QUANTITY [pieces] |
|---|-------------|--------------------|----------------------|
| SEALING WASHERS FOR METRIC (I.S.O.) FITTINGS | | | |
| 051-72123-1* | M16 | 0.2 | 100 |
| 035-72272-1* | M20 | 0.2 | 100 |
| 035-72272-2* | M25 | 0.3 | 100 |
| 035-72272-3* | M32 | 0.3 | 100 |
| SEALING WASHERS FOR NPT FITTINGS | | | |
| 5261* | 3/8" | 0.2 | 50 |
| 5262 | 1/2" | 0.2 | 50 |
| 5263 | 3/4" | 0.3 | 25 |
| 5264 | 1" | 0.3 | 25 |
| 5265 | 1 1/4" | 1.8 | 5 |
| 5266 | 1 1/2" | 1.9 | 5 |
| 5267 | 2" | 2.0 | 5 |
| 5268 | 2 1/2" | 2.2 | 5 |
| 5269 | 3" | 2.9 | 5 |
| 5270 | 4" | 3.8 | 5 |
| SEALING WASHERS FOR IMPERIAL FITTINGS | | | |
| 035 - 72272 - 4 | 1 1/2" | 1.8 | 100 |
| 051 - 72123 - 6 | 2" | 1.9 | 50 |

* The Product Ref. with a * are not UL approved

Shureseal™

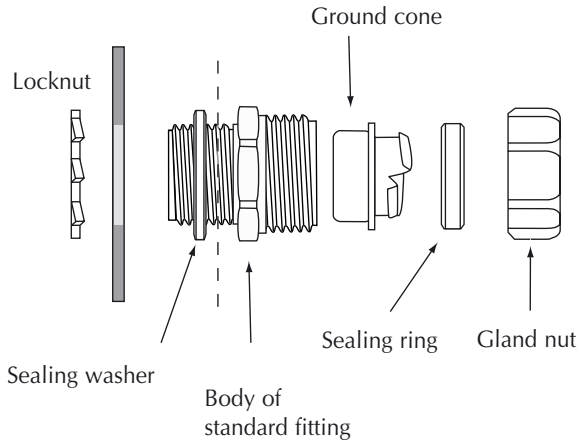
Accessories for fittings

Locknuts

Case-Hardened Locknut with Teeth provides superior strength and electrical bonding and can be installed without a wrench in the enclosure.



4.2



Technical Information

| | |
|--------------|-----------------------------|
| Fitting Type | Shureseal™ fittings |
| Thread | NPT |
| Material | Galvanised steel, chromated |
| Colour | Metallic |

Approvals



004484



E23018

Ordering Information

| PRODUCT REF. | NPT THREAD SIZE [inch] | WEIGHT [g/100] | QUANTITY [pieces] |
|--------------------|---------------------------|-------------------|----------------------|
| NPT LOCKNUT | | | |
| 139 | 1/4 | 0.4 | 100 |
| 140 | 3/8 | 0.5 | 100 |
| 141 | 1/2 | 0.5 | 100 |
| 142-TB | 3/4 | 0.9 | 100 |
| 143 | 1 | 1.8 | 50 |
| 144 | 1 1/4 | 3.2 | 50 |
| 145 | 1 1/2 | 4.0 | 50 |
| 146-TB | 2 | 6.3 | 25 |
| 147 | 2 1/2 | 11.7 | 15 |
| 148 | 3 | 18.0 | 5 |
| 149 | 3 1/2 | 19.8 | 5 |
| 150 | 4 | 23.4 | 5 |

Strain Relief Wire Mesh adaptor with integrated gland nut:

- Simple installation: just replace the existing gland nut in the fitting with the wire mesh adaptor
- Provides a support function (strain relief), to protect the conduit at the point of connection
- Rounded corners ensure secure attachment of the conduit without the risk of damage
- Anti-corrosive



Approvals



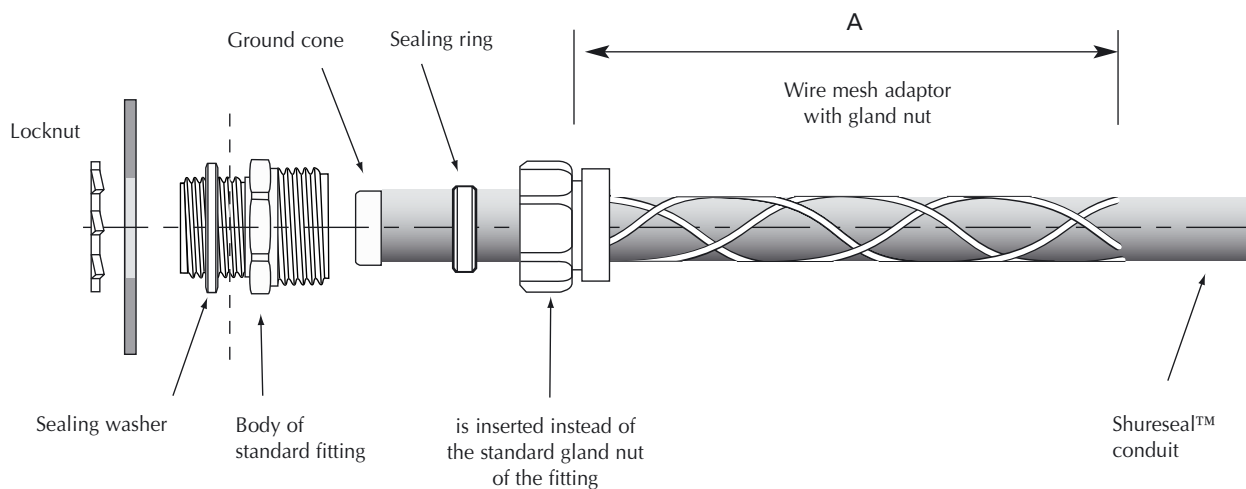
002884
4484



E13938
E23018

Technical Information

| | |
|--------------|---|
| Fitting Type | Shureseal™ liquidtight fittings for metallic conduits (straight, 45°, 90°, chase, female hub) |
| Thread | Replaces the standard gland nut |
| Material | Gland nut: zinc plated steel Collar: aluminium Wire mesh: aluminium |
| Colour | Metallic |



Ordering Information

| PRODUCT REF. | CONDUIT SIZE [inch] | STRAIGHT FITTING [prod. ref.] | 45° FITTING [prod. ref.] | 90° FITTING [prod. ref.] | CHASE FITTING [prod. ref.] | CHASE 90 ° FITTING [prod. ref.] | ADAPTER [prod. ref.] | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|------------------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------|------------------------------------|-------------------------|--------------------|----------------------|
| FOR FITTINGS WITH ISO THREAD | | | | | | | | | |
| WMG-LT1 | 3/8 | 9360, 9361 | 9340, 9341 | 9350, 9351 | – | – | 9270, 9271 | 2.5 | 10 |
| WMG-LT2 | 1/2 | 9362 | 9342 | 9352-TB | – | – | 9272 | 4.0 | 10 |
| WMG-LT3 | 3/4 | 9363 | 9343-TB | 9353-TB | – | – | 9273 | 5.0 | 10 |
| WMG-LT4 | 1 | 9364 | 9344 | 9354-TB | – | – | 9274 | 10.0 | 10 |
| FOR FITTINGS WITH PG THREAD | | | | | | | | | |
| WMG-LT1 | 3/8 | 7361, 7362 | 7341, 7342 | 7351, 7352 | – | – | – | 2.5 | 10 |
| WMG-LT2 | 1/2 | 7363 | 7343 | 7353 | – | – | – | 4.0 | 10 |
| WMG-LT3 | 3/4 | 7364 | 7344-TB | 7354 | – | – | – | 5.0 | 10 |
| WMG-LT4 | 1 | 7365 | 7345 | 7355 | – | – | – | 10.0 | 10 |
| WMG-LT5 | 1 1/4 | 7366 | 7346 | 7356 | – | – | – | 17.0 | 2 |
| WMG-LT6 | 1 1/2 | 7367 | 7347 | 7357 | – | – | – | 29.0 | 2 |
| WMG-LT7 | 2 | 7368 | 7348-TB | 7358 | – | – | – | 43.0 | 5 |
| FOR FITTINGS WITH NPT THREAD | | | | | | | | | |
| WMG-LT1 | 3/8 | 5331 | 5341 | 5351 | 5361 | 5371 | 5271 | 2.5 | 10 |
| WMG-LT2 | 1/2 | 5332 | 5342 | 5352 | 5362 | 5372 | 5272 | 4.0 | 10 |
| WMG-LT3 | 3/4 | 5333 | 5343 | 5353 | 5363 | 5373 | 5273 | 5.0 | 10 |
| WMG-LT4 | 1 | 5334-TB | 5344 | 5354 | 5364 | 5374 | 5274 | 10.0 | 10 |
| WMG-LT5 | 1 1/4 | 5335 | 5345 | 5355 | 5365 | – | 5275 | 17.0 | 2 |
| WMG-LT6 | 1 1/2 | 5336 | 5346 | 5356 | 5366 | – | 5276 | 29.0 | 2 |
| WMG-LT7 | 2 | 5337 | 5347 | 5357 | 5367 | – | 5277 | 43.0 | 5 |
| FOR FITTINGS WITH IMPERIAL THREAD | | | | | | | | | |
| WMG-LT5 | 1 1/4 | 6365 | – | 6355 | – | – | – | 17.0 | 2 |
| WMG-LT6 | 1 1/2 | 6366 | 6346 | 6356 | – | – | – | 29.0 | 2 |
| WMG-LT7 | 2 | 6367 | 6347 | – | – | – | – | 43.0 | 5 |

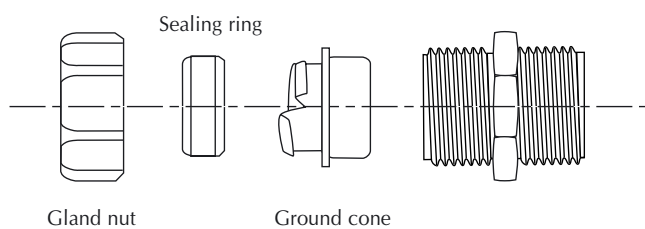
Replacements parts for liquidtight metallic fittings

If after some time the fitting is released and needs to be re-secured, the seal and the ground cone should be replaced.

The following accessories are appropriate for all the standard liquidtight Shureseal™ fittings for metallic conduits:

- **Steel ground cone:** it provides a high quality ground contact with low impedance and high conduit pull-off resistance. The single helical thread on ground cone is easy to install by hand without cross threading. It tolerates variations in conduit diameters and convolution pitch. Its rolled-over edge protects the conductors. Manufactured in zinc plated steel.
- **Sealing ring:** it grips and seals the conduit without damaging the conduit jacket. Its symmetrical shape assures a foolproof assembly. It ensures a positive seal against oils, liquids, moisture and dust. Made from high-performance nylon. Colour: blue.
- **Gland nut:** rugged construction, made of zinc plated steel. Reinforced corners to allow hand screwing.

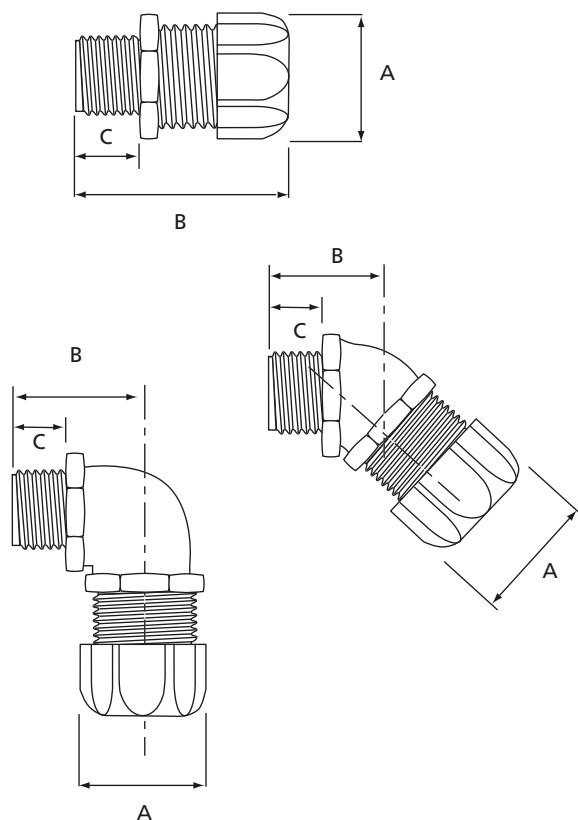
Fitting replacement parts



Ordering Information

| PRODUCT REF. | CONDUIT SIZE [inch] |
|---------------------|------------------------|
| GROUND CONE | |
| R 719124 | 1/4 |
| IR 719123 | 5/16 |
| R 719101 | 3/8 |
| R 719125 | 1/2 |
| R 719126 | 3/4 |
| R 719127 | 1 |
| IR 719128 | 1 1/4 |
| IR 719129 | 1 1/2 |
| SEALING RING | |
| 7 R68301 | 5/16 |
| IR 763101 | 3/8 |
| IR 763102 | 1/2 |
| IR 763108 | 3/4 |
| IR 763104 | 1 |
| IR 763105 | 1 1/4 |
| IR 763106 | 1 1/2 |
| GLANDNUT | |
| 7 R68201 | 5/16 |
| R 735540 | 3/8 |
| R 735503 | 1/2 |
| R 735504 | 3/4 |
| R 735522 | 1 |
| IR 735509 | 1 1/4 |
| IR 723418 | 1 1/2 |

- High performance metal cable fittings
- Special construction prevents twisting and ensures effective strain relief
- Easy to install
- For cables with outer diameters from 3.2 mm to 47.6 mm



Technical Information

| | |
|----------------------|--|
| Style/thread | Straight, 45° and 90° NPT and metric (I.S.O.) threads |
| System IP rating | IP65 |
| Body (material) | Zinc or galvanized steel |
| Gland nut (material) | Steel or galvanised steel |
| Seal (material) | Neoprene or rubber |
| Colour | Metallic |
| Temperature range | -35°C to +105°C |

Approvals



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00589
004484



E-13938

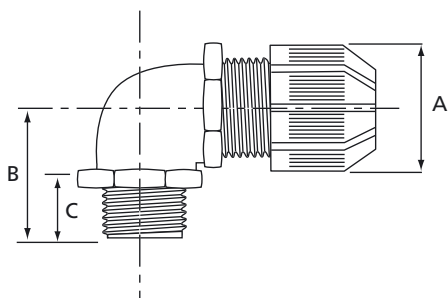
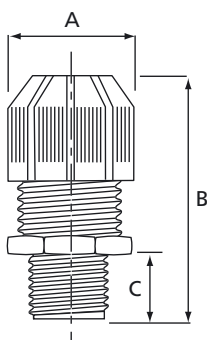
Ordering Information

| PRODUCT REF. | MATERIAL BODY | MATERIAL SEAL | MATERIAL NUT | CABLE Ø RANGE FROM...TO [mm] | THREAD SIZE | DIMENSIONS | | | QUANTITY [pieces] |
|--|-------------------|------------------|-------------------|------------------------------------|----------------|------------|-----------|-----------|----------------------|
| | | | | | | A [mm] | B [mm] | C [mm] | |
| STRAIGHT METALLIC CABLE GLAND WITH METRIC (I.S.O.) THREAD | | | | | | | | | |
| 9520 | zinc plated steel | Neoprene | zinc plated steel | 3.2 - 6.3 | M20 | 28.6 | 42.0 | 14.3 | 25 |
| 9521-EU | zinc plated steel | Neoprene | zinc plated steel | 6.3 - 9.5 | M20 | 28.6 | 42.0 | 14.3 | 25 |
| 9522-EU | zinc plated steel | Neoprene | zinc plated steel | 9.5 - 12.7 | M20 | 28.6 | 42.0 | 14.3 | 25 |
| 9523 | zinc plated steel | Neoprene | zinc plated steel | 11.4 - 14.2 | M20 | 28.6 | 42.0 | 14.3 | 25 |
| 9524-EU | zinc plated steel | Neoprene | zinc plated steel | 12.7 - 15.8 | M20 | 34.9 | 44.5 | 15.0 | 25 |
| 90° METALLIC CABLE GLAND WITH NPT THREAD | | | | | | | | | |
| 4960 | zinc plated steel | rubber | steel | 3.2 - 9.5 | 1/2" | 28.6 | 44.5 | 15.9 | 25 |
| 4961 | zinc plated steel | rubber | steel | 7.9 - 14.2 | 1/2" | 28.6 | 44.5 | 15.9 | 25 |
| 4970 | zinc plated steel | rubber | steel | 3.2 - 9.5 | 3/4" | 34.9 | 45.2 | 17.5 | 10 |
| 4971 | zinc plated steel | rubber | steel | 7.9 - 14.2 | 3/4" | 34.9 | 45.2 | 17.5 | 10 |
| 4972 | zinc plated steel | rubber | steel | 12.7 - 19.0 | 3/4" | 34.9 | 45.2 | 17.5 | 10 |

Ordering Information

| PRODUCT REF. | MATERIAL | MATERIAL | MATERIAL | CABLE Ø RANGE | THREAD | DIMENSIONS | | | QUANTITY |
|--|----------------------------|----------|-------------------|---------------|--------|------------|------|------|----------|
| | BODY | SEAL | NUT | | | FROM...TO | SIZE | A | |
| | | | | [mm] | [inch] | [mm] | [mm] | [mm] | [pieces] |
| STRAIGHT METALLIC CABLE GLAND WITH NPT THREAD | | | | | | | | | |
| 2920 | zinc | rubber | zinc plated steel | 3.2 - 9.5 | 1/2 | 28.6 | 44.5 | 15.9 | 25 |
| 2921 | zinc | rubber | zinc plated steel | 7.9 - 14.2 | 1/2 | 28.6 | 44.5 | 15.9 | 25 |
| 2922 | zinc | rubber | zinc plated steel | 12.7 - 19.1 | 1/2 | 34.9 | 44.5 | 15.9 | 10 |
| 2930 | zinc | rubber | zinc plated steel | 3.2 - 9.5 | 3/4 | 34.9 | 45.2 | 19.1 | 10 |
| 2931 | zinc | rubber | zinc plated steel | 7.9 - 14.2 | 3/4 | 34.9 | 45.2 | 19.1 | 10 |
| 2932 | zinc | rubber | zinc plated steel | 12.7 - 19.1 | 3/4 | 34.9 | 45.2 | 19.1 | 10 |
| 2940 | zinc | rubber | zinc plated steel | 7.9 - 14.2 | 1 | 34.9 | 44.5 | 20.6 | 10 |
| 2941 | zinc | rubber | zinc plated steel | 12.7 - 19.1 | 1 | 34.9 | 44.5 | 20.6 | 10 |
| 2942 | zinc | rubber | zinc plated steel | 17.8 - 24.1 | 1 | 41.3 | 47.6 | 20.6 | 10 |
| 2520 | zinc | Neoprene | steel | 3.2 - 6.4 | 1/2 | 29.4 | 42.9 | 15.9 | 25 |
| 2521 | zinc | Neoprene | steel | 6.4 - 9.5 | 1/2 | 29.4 | 42.9 | 15.9 | 25 |
| 2522 | zinc | Neoprene | steel | 9.5 - 12.7 | 1/2 | 29.4 | 42.9 | 15.9 | 25 |
| 2523 | zinc | Neoprene | steel | 11.4 - 14.2 | 1/2 | 29.4 | 42.9 | 15.9 | 25 |
| 2524 | zinc | Neoprene | steel | 12.7 - 15.9 | 1/2 | 34.9 | 44.5 | 15.9 | 25 |
| 2525 | zinc | Neoprene | steel | 15.9 - 19.1 | 1/2 | 34.9 | 44.5 | 15.9 | 25 |
| 2558 | zinc | Neoprene | steel | 22.4 - 27.1 | 1 1/4 | 53.2 | 54.8 | 20.6 | 5 |
| 2559 | zinc | Neoprene | steel | 27.1 - 30.6 | 1 1/4 | 53.2 | 54.8 | 20.6 | 5 |
| 2562 | zinc | Neoprene | steel | 20.6 - 25.4 | 1 1/2 | 58.7 | 63.5 | 17.5 | 5 |
| 2563 | zinc | Neoprene | steel | 25.4 - 30.1 | 1 1/2 | 58.7 | 63.5 | 17.5 | 5 |
| 2574 | zinc | Neoprene | steel | 34.9 - 41.3 | 2 | 69.9 | 66.7 | 20.6 | 1 |
| 2575 | zinc | Neoprene | steel | 41.3 - 47.6 | 2 | 69.9 | 66.7 | 20.6 | 1 |
| 45° METALLIC CABLE GLAND WITH NPT THREAD | | | | | | | | | |
| 2200 | zinc plated malleable iron | Neoprene | zinc plated steel | 3.2 - 6.3 | 1/2 | 28.6 | 7.1 | 14.3 | 25 |
| 2201 | zinc plated malleable iron | Neoprene | zinc plated steel | 6.3 - 9.5 | 1/2 | 28.6 | 7.1 | 14.3 | 25 |
| 2202 | zinc plated malleable iron | Neoprene | zinc plated steel | 9.5 - 12.7 | 1/2 | 28.6 | 7.1 | 14.3 | 25 |
| 2203 | zinc plated malleable iron | Neoprene | zinc plated steel | 11.4 - 14.2 | 1/2 | 28.6 | 7.1 | 14.3 | 25 |
| 2204 | zinc plated malleable iron | Neoprene | zinc plated steel | 12.7 - 15.9 | 1/2 | 34.9 | 10.3 | 14.3 | 10 |
| 2205 | zinc plated malleable iron | Neoprene | zinc plated steel | 15.9 - 19.1 | 1/2 | 34.9 | 35.7 | 14.3 | 10 |
| 2206-TB | zinc plated malleable iron | Neoprene | zinc plated steel | 3.2 - 6.3 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2207-TB | zinc plated malleable iron | Neoprene | zinc plated steel | 6.3 - 9.5 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2208-TB | zinc plated malleable iron | Neoprene | zinc plated steel | 9.5 - 12.7 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2209 | zinc plated malleable iron | Neoprene | zinc plated steel | 12.7 - 15.9 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2210 | zinc plated malleable iron | Neoprene | zinc plated steel | 15.9 - 19.1 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2211 | zinc plated malleable iron | Neoprene | zinc plated steel | 19.1 - 22.2 | 3/4 | 42.9 | 38.1 | 38.1 | 10 |
| 2213 | zinc plated malleable iron | Neoprene | zinc plated steel | 9.5 - 12.7 | 1 | 34.9 | 38.1 | 19.8 | 5 |
| 2214 | zinc plated malleable iron | Neoprene | zinc plated steel | 12.7 - 15.9 | 1 | 34.9 | 38.1 | 19.8 | 5 |
| 2215 | zinc plated malleable iron | Neoprene | zinc plated steel | 15.9 - 19.1 | 1 | 34.9 | 38.1 | 19.8 | 5 |
| 2216 | zinc plated malleable iron | Neoprene | zinc plated steel | 19.1 - 22.2 | 1 | 42.9 | 37.3 | 19.8 | 5 |
| 2217 | zinc plated malleable iron | Neoprene | zinc plated steel | 22.2 - 25.0 | 1 | 42.9 | 37.3 | 19.8 | 5 |
| 2218 | zinc plated malleable iron | Neoprene | zinc plated steel | 22.3 - 27.0 | 1 | 52.4 | 50.0 | 19.8 | 5 |
| 2219 | zinc plated malleable iron | Neoprene | zinc plated steel | 27.0 - 30.1 | 1 | 52.4 | 50.0 | 19.8 | 5 |
| 2220-TB | zinc plated malleable iron | Neoprene | zinc plated steel | 22.3 - 27.0 | 1 1/4 | 52.4 | 48.4 | 20.6 | 2 |
| 2221 | zinc plated malleable iron | Neoprene | zinc plated steel | 27.0 - 30.1 | 1 1/4 | 52.4 | 48.4 | 20.6 | 2 |
| 2222 | zinc plated malleable iron | Neoprene | zinc plated steel | 30.1 - 34.9 | 1 1/4 | 52.4 | 57.2 | 20.6 | 2 |
| 2223 | zinc plated malleable iron | Neoprene | zinc plated steel | 34.9 - 37.7 | 1 1/4 | 52.4 | 57.2 | 20.6 | 2 |

- High performance plastic cable fittings
- Special construction prevents twisting and ensures effective strain relief
- Easy to install
- For all cable sizes between 3.2 and 24.1 mm of outer diameter



Technical Information

| | |
|---------------------|---------------------------------|
| Style/thread | Straight and 90° NPT threads |
| IP rating | IP65 |
| Material | UV resistant polyamide 6.6. |
| Steel locknut | Chromate finished steel or zinc |
| Seal | Neoprene |
| Colour | Black |
| Flammability rating | UL 94 V-2 |
| Temperature range | -34°C to +105°C |

Approvals



052391



E-13938

Ordering Information

| PRODUCT REF. | CABLE DIAMETER RANGE | | THREAD SIZE [inch] | DIMENSIONS | | | QUANTITY [pieces] |
|---|----------------------|--|-----------------------|------------|-----------|-----------|----------------------|
| | FROM...TO [mm] | | | A [mm] | B [mm] | C [mm] | |
| STRAIGHT PLASTIC CABLE GLAND WITH NPT THREAD | | | | | | | |
| 2920NM | 3.2 - 9.5 | | 1/2 | 26.2 | 54.0 | 15.9 | 25 |
| 2921NM | 7.9 - 14.2 | | 1/2 | 26.2 | 54.0 | 15.9 | 25 |
| 2922NM | 12.7 - 19.0 | | 1/2 | 35.7 | 54.0 | 15.9 | 25 |
| 2930NM | 3.2 - 9.5 | | 3/4 | 35.7 | 55.6 | 15.9 | 10 |
| 2931NM | 7.9 - 14.2 | | 3/4 | 35.7 | 55.6 | 15.9 | 10 |
| 2932NM | 12.7 - 14.2 | | 3/4 | 35.7 | 55.6 | 15.9 | 10 |
| 2940NM | 7.9 - 14.2 | | 1 | 35.7 | 59.5 | 19.8 | 10 |
| 2941NM | 12.7 - 19.0 | | 1 | 35.7 | 59.5 | 19.8 | 10 |
| 2942NM | 17.8 - 24.1 | | 1 | 42.5 | 60.3 | 19.8 | 10 |
| 90° PLASTIC CABLE GLAND WITH NPT THREAD | | | | | | | |
| 4960NM | 3.2 - 9.5 | | 1/2 | 30.9 | 31.8 | 15.9 | 25 |
| 4961NM | 7.9 - 14.2 | | 1/2 | 30.9 | 31.8 | 15.9 | 25 |
| 4970NM | 3.2 - 9.5 | | 3/4 | 35.7 | 34.9 | 15.9 | 10 |
| 4971NM | 7.9 - 14.2 | | 3/4 | 35.7 | 34.9 | 15.9 | 10 |
| 4972NM | 12.7 - 19.0 | | 3/4 | 35.7 | 34.9 | 15.9 | 10 |

Shureseal™

Cable grommets with strain relief

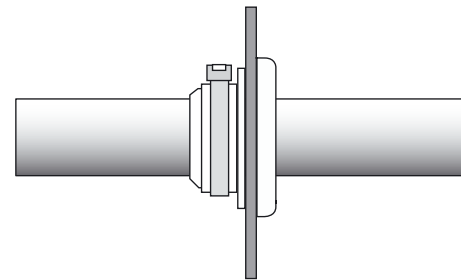
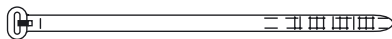
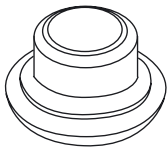
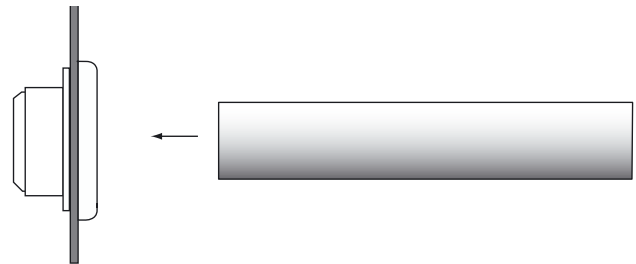
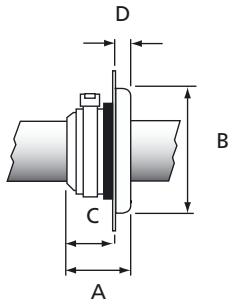
- Supplied with one Ty-Rap® cable tie to ensure a stable, tight and sealed strain relief
- Material with high elasticity
- Can also be used for single cables
- Chemically resistant
- Weather and UV resistant
- Simple and quick installation
- 5 sizes for cable diameters from 4 mm to 32 mm
- Maximal wall thickness 2.2 mm
- Typical applications: In control cabinets, in the building of motor vehicles, in the construction of machines,...



4.3

Technical Information

| | |
|---------------------|----------------|
| Material, gland | Neoprene |
| Material, cable tie | Polyamide 6.6 |
| Colour | Black |
| Temperature range | -30°C to +90°C |
| Flammability | UL 514 |



Ordering Information

| PRODUCT REF. | MATERIAL | DIMENSIONS | | | | CABLE Ø RANGE FROM ... TO | FIXING HOLE DIAMETER | WALL THICKNESS UP TO | CABLE TIE REFERENCE | WEIGHT [g/100] | QUANTITY [pieces] |
|--------------|----------|------------|-----------|-----------|-----------|------------------------------|-------------------------|-------------------------|------------------------|-------------------|----------------------|
| | | A [mm] | B [mm] | C [mm] | D [mm] | | | | | | |
| 7401 | Neoprene | 18.6 | 24 | 13.6 | 5.0 | 4.0 - 9.0 | 16 | 2.2 | TY 24 MX | 420 | 10 |
| 7402 | Neoprene | 18.7 | 28 | 13.7 | 5.0 | 7.0 - 12.0 | 19 | 2.2 | TY 25 MX | 690 | 10 |
| 7403 | Neoprene | 22.0 | 34 | 17.0 | 5.0 | 12.0 - 18.0 | 25 | 2.2 | TY 25 MX | 1100 | 10 |
| 7404 | Neoprene | 24.0 | 43 | 19.0 | 5.0 | 18.0 - 25.0 | 32 | 2.2 | TY 25 MX | 1500 | 5 |
| 7405 | Neoprene | 24.5 | 51 | 18.5 | 6.0 | 25.0 - 32.0 | 38 | 2.2 | TY 25 MX | 1950 | 5 |

Conduits: directions for use

Below are a few short extracts taken from the relevant prescriptions.

VDE 0113/12.73

Metal tubing, pipes and conduits must be used in accordance with the prescribed safety standard.

Paragraph 10.3.1 states that all conduits must be designed to protect against the expected demands made on the product. This is to say, for example, that cable can only be fed through conduit if it is suitably protected from liquids, dust (IP-Protection) and other foreign substances.

Surfaces with which the laid conduits come into contact - such as edges, threads etc. should not damage the insulation of the conduit.

Fittings: directions for use

Conduits and fitting assemblies must be installed in accordance with VDE 0113.

It is not adequate just to feed the conduit into a housing. The conduit must be installed using a lock nut and fitting, which ensure a good electrical connection between the conduit and housing. The conduit must not reduce the protective capability of the housing. In order to ensure the effective installation of the conduit, it is important not only to use a suitable conduit but also to use the appropriate type of fitting. (see IEC-204)

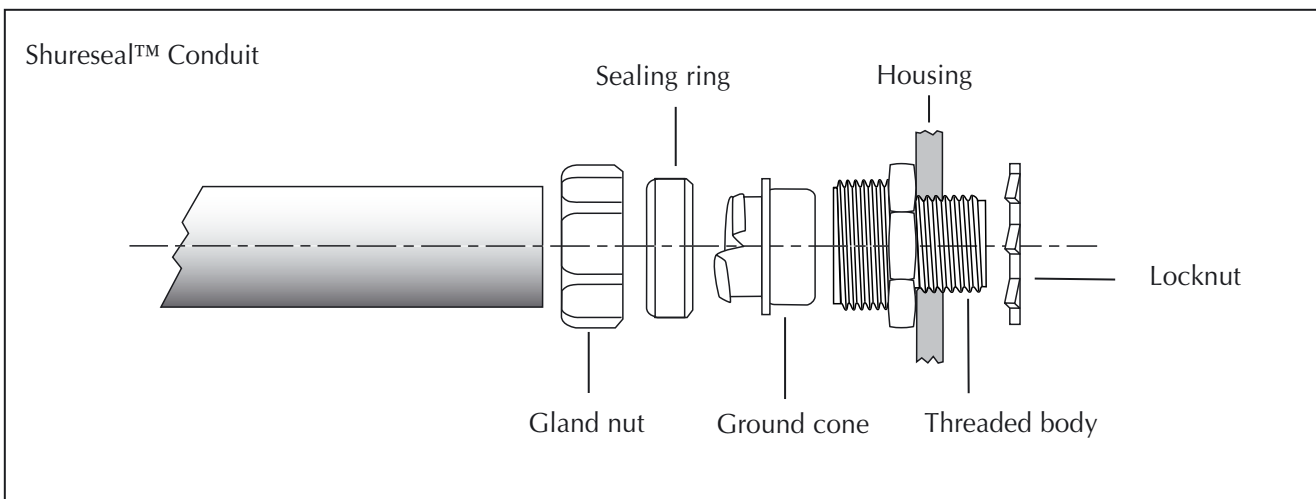
Specifications

Shureseal™ fittings and conduits satisfy the following specifications:

- for heavy industrial applications in accordance with DIN 49012.
- according to IP67 rating
- according to DIN/VDE 0650, section, 2.1.1b
- according to BS731, part 1
- and have the necessary approvals (UL/CSA and VDE)

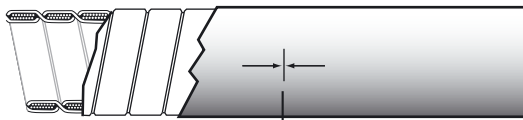
Installation

Installation is simple. The fitting screws easily onto the conduit, without the need for special tools. The fitting can be removed and re-used again at any time. The fitting also performs excellently against severe vibration. The conduit is not deformed by the fitting. In tests, the fittings have been shown to be extremely secure and guarantee a high level of security and reliability.



Flexible metallic liquidtight conduits**Type TBEF - universal**

- TBEF (now integrating the TBHT grade) conduit with heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Universal conduit for all liquidtight applications requiring good mechanical strength and flexibility: machinery, conveyors, etc.
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid and oil resistant, self-extinguishing PVC jacket
- High mechanical stability
- Tested and certified in accordance with DIN VDE 0605:1982-04 (File Nr: 24058-5410-0050 / 32CRB F41 / LR, Document Nr.: 131354)
- Marked lengths (every 1 m) for quick and easy measuring and cutting



Length marking



1/4" - 1 1/4"

1 1/2" - 4"

**Technical Information**

| | |
|--------------------------------|--|
| Outer jacket | PVC, self-extinguishing |
| Core | Galvanised steel |
| Packing | Cotton (up to 1 1/4") |
| Colour | Black or grey** |
| Temperature range | Static: -25°C to +105°C Flexing: -5°C to +105°C |
| Voltage breakdown (flash test) | > 2 kV |
| Insulation resistance | > 100 MOhm |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

** (Grey available upon request. Suffix = G, e.g. TBEF0250-50-G)

Approvals**Ordering Information**

| PRODUCT REF. | NOMINAL SIZE | METRIC SIZE | FOR PG CONNECTION | LENGTH [m] | INTERNAL DIAMETER [mm] | EXTERNAL DIAMETER [mm] | MIN. BENDING RADIUS [mm] | MECHANICAL VALUES | | | WEIGHT [kg/100 m] | TYPE OF PACKAGING |
|--------------|--------------|-------------|-------------------|------------|------------------------|------------------------|--------------------------|---------------------------|-------------------------------|-------|-------------------|-------------------|
| | | | | | | | | MIN. TENSILE STRENGTH [N] | MIN. COMPRESSION STRENGTH [N] | | | |
| | | | | | | | | | | | | |
| TBEF0250-50* | 1/4 | 10 | 7 | 50 | 6.2 | 11.4 | 45 | 500 | 1250 | 20.0 | A | |
| TBEF0312-50* | 5/16 | 12 | 9 | 50 | 10.0 | 14.4 | 50 | 500 | 1250 | 22.2 | A | |
| TBEF0375-10 | 3/8 | 16 | 11 / 13.5 | 10 | 12.5 | 17.8 | 50 | 1000 | 1250 | 41.9 | A | |
| TBEF0375-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.5 | 17.8 | 50 | 1000 | 1250 | 41.9 | B | |
| TBEF0500-10 | 1/2 | 20 | 16 | 10 | 16.0 | 21.1 | 75 | 1000 | 1250 | 48.1 | A | |
| TBEF0500-60 | 1/2 | 20 | 16 | 60 | 16.0 | 21.1 | 75 | 1000 | 1250 | 48.1 | B | |
| TBEF0750-10 | 3/4 | 25 | 21 | 10 | 21.0 | 26.4 | 90 | 1000 | 1250 | 68.9 | A | |
| TBEF0750-50 | 3/4 | 25 | 21 | 50 | 21.0 | 26.4 | 90 | 1000 | 1250 | 68.9 | C | |
| TBEF1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 110 | 1000 | 1250 | 97.5 | C | |
| TBEF1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 130 | 1000 | 1250 | 123.3 | C | |
| TBEF1500-15* | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 190 | 2500 | 1250 | 144.8 | C | |
| TBEF2000-15* | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 250 | 2500 | 1250 | 161.0 | C | |
| TBEF2500-15* | 2 1/2 | 75 | - | 15 | 63.3 | 72.6 | 480 | 2500 | 1250 | 298.0 | C | |
| TBEF3000-7* | 3 | - | - | 7 | 78.4 | 88.4 | 760 | 2500 | 1250 | 327.8 | C | |
| TBEF4000-7* | 4 | - | - | 7 | 102.1 | 113.8 | 860 | 2500 | 1250 | 394.4 | C | |

* Not VDE approved

Packaging sizes: A= box 370 x 370 x 180 mm

B= box 500 x 500 x 275 mm

C= reel 800 mm ø

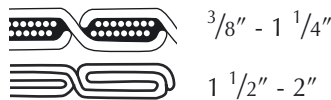
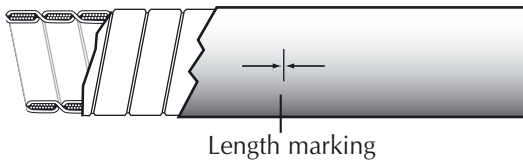
See page 224 for explanations on min. bending radius and temperature ranges

For T&B liquidtight fittings see pages 238 to 246

Shureseal™

Flexible metallic liquidtight conduits Type TBDL - dual listed UL & CSA

- Type TBDL with UL / CSA approval, heavy duty double interlocked / single interlocked galvanised steel core
- Export and North-America oriented applications: multi-national projects, power plant, ...
- Copper wire packing for improved grounding (up to 1 1/4")
- High performance, acid- and oil-resistant PVC jacket, self-extinguishing in accordance with UL360
- Extremely high mechanical stability
- Marked lengths (every 1 m) for simple measuring and cutting
- Silicone free



4.1

Technical Information

| | |
|-------------------|--|
| Outer jacket | PVC, self-extinguishing in 60 seconds |
| Core | Galvanised steel |
| Packing | Flat copper conductor (up to 1 1/4") |
| Colour | Black |
| Temperature range | Static: -25°C to +105°C (+120°C intermittent) Flexing: -5°C to +105°C UL rating: -10°C to +60°C CSA rating: -10°C to +75°C |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

Approvals



LL091693



E125517

Ordering Information

| PRODUCT REF. | NOMINAL SIZE | METRIC SIZE | FOR PG CONNECTION | LENGTH | INTERNAL DIAMETER | EXTERNAL DIAMETER | MIN. BENDING RADIUS | MECHANICAL VALUES | | WEIGHT | TYPE OF PACKAGING |
|--------------|--------------|-------------|-------------------|--------|-------------------|-------------------|---------------------|-----------------------|---------------------------|------------|-------------------|
| | | | | | | | | MIN. TENSILE STRENGTH | MIN. COMPRESSION STRENGTH | | |
| | [inch] | [mm] | | [m] | [mm] | [mm] | [mm] | [N] | [N] | [kg/100 m] | |
| TBDL0375-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.5 | 17.8 | 50 | 1000 | 4000 | 39.4 | B |
| TBDL0500-60 | 1/2 | 20 | 16 | 60 | 16.0 | 21.1 | 80 | 1000 | 4000 | 48.5 | B |
| TBDL0750-50 | 3/4 | 25 | 21 | 50 | 21.0 | 26.4 | 105 | 1000 | 1250 | 66.3 | C |
| TBDL1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 165 | 1000 | 4000 | 112.0 | C |
| TBDL1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 200 | 1000 | 1250 | 160.0 | C |
| TBDL1500-15 | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 280 | 2500 | 4000 | 193.5 | C |
| TBDL2000-15 | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 355 | 2500 | 1250 | 253.0 | C |

Packaging sizes: B = box 500 x 500 x 275 mm
C = reel 800 mm ø

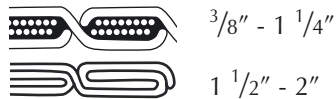
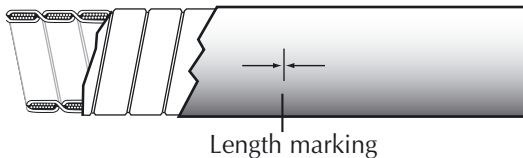
See page 224 for explanations on min. bending radius and temperature ranges

Other sizes available upon request - please contact your Sales Office

For T&B liquidtight fittings see pages 238 to 246

Flexible metallic liquidtight conduits**Type TBOR - oil resistant**

- Type TBOR, with heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Applications in greasy environments: machine tools, assembly machines, hydraulic machinery
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant PVC outer jacket, self-extinguishing within 30 seconds
- High mechanical stability in accordance with DIN 49 012
- Marked lengths (every 1m) for quick and easy measuring and cutting

**Technical Information**

| | |
|--------------------------------|--|
| Outer jacket | PVC, self-extinguishing within 30 seconds |
| Core | Galvanised steel |
| Packing | Cotton (up to 1 1/4") |
| Colour | Black |
| Temperature range | Static: -25°C to +105°C Flexing: -5°C to +105°C |
| Voltage breakdown (flash test) | > 2 kV |
| Insulation resistance | > 100 MOhm |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

Ordering Information

| PRODUCT REF. | NOMINAL | METRIC | FOR PG | LENGTH | INTERNAL | EXTERNAL | MIN. | MECHANICAL VALUES | | WEIGHT | TYPE | | | |
|--------------|---------|--------|------------|--------|----------|----------|------|-------------------|----------|------------|-----------|---------|--------------|------------------|
| | SIZE | SIZE | CONNECTION | | | | | DIAMETER | DIAMETER | | | BENDING | MIN. TENSILE | MIN. COMPRESSION |
| | [inch] | [mm] | | | | | | [mm] | [mm] | | | RADIUS | STRENGTH | STRENGTH |
| | | | | [m] | [mm] | [mm] | [mm] | [N] | [N] | [kg/100 m] | OF | | | |
| | | | | | | | | | | | PACKAGING | | | |
| TBOR0375-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.5 | 17.8 | 50 | 1000 | 1250 | 41.9 | B | | | |
| TBOR0500-60 | 1/2 | 20 | 16 | 60 | 16.0 | 21.1 | 75 | 1000 | 1250 | 48.1 | B | | | |
| TBOR0750-50 | 3/4 | 25 | 21 | 50 | 21.0 | 26.4 | 90 | 1000 | 1250 | 68.9 | C | | | |
| TBOR1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 110 | 1000 | 1250 | 97.5 | C | | | |
| TBOR1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 130 | 1000 | 1250 | 123.3 | C | | | |
| TBOR1500-15 | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 190 | 2500 | 1250 | 144.8 | C | | | |
| TBOR2000-15 | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 250 | 2500 | 1250 | 161.0 | C | | | |

Packaging sizes: B = box 500 x 500 x 275 mm

C = reel 800 mm ø

See page 224 for explanations on min. bending radius and temperature ranges

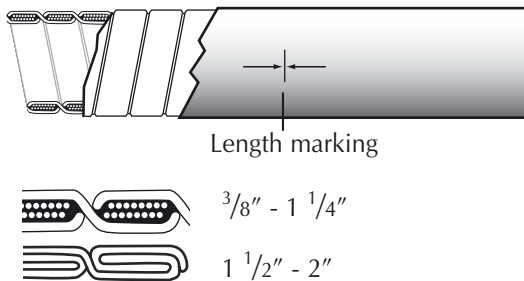
Other sizes available upon request - please contact your Sales Office

For T&B liquidtight fittings see pages 238 to 246

Shureseal™

Flexible metallic liquidtight conduits Type TBEHC - extreme heat/cold

- Applications at extreme temperatures: refrigeration, transportation, industrial HVAC, heavy industries
- Very high tolerance to extreme changes in temperature
- Heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant Polyester jacket, self-extinguishing according to UL 94 V-2
- High mechanical stability in accordance with DIN 49 012
- Marked lengths (every 1m) for quick and easy measuring and cutting



4.1

Technical Information

| | |
|--------------------------------|---|
| Outer jacket | Polyester, self-extinguishing within 30 seconds |
| Core | Galvanised steel |
| Packing | Cotton (up to 1 1/4") |
| Colour | Black |
| Temperature range | Static: -50°C to +130°C (+150°C intermittent) Flexing: -5°C to +130°C |
| Voltage breakdown (flash test) | > 2 kV |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

Ordering Information

| PRODUCT REF. | NOMINAL SIZE | METRIC SIZE | FOR PG CONNECTION | LENGTH | INTERNAL DIAMETER | EXTERNAL DIAMETER | MIN. BENDING RADIUS | MECHANICAL VALUES | | | WEIGHT | TYPE OF PACKAGING |
|--------------|--------------|-------------|-------------------|--------|-------------------|-------------------|---------------------|-----------------------|---------------------------|-------|--------|-------------------|
| | | | | | | | | MIN. TENSILE STRENGTH | MIN. COMPRESSION STRENGTH | | | |
| | | | | | | | | | [N] | [N] | | |
| TBEHC0375-30 | 3/8 | 16 | 11 / 13.5 | 30 | 12.5 | 17.8 | 50 | 1000 | 1250 | 40.7 | B | |
| TBEHC0500-30 | 1/2 | 20 | 16 | 30 | 16.0 | 21.1 | 75 | 1000 | 1250 | 45.0 | B | |
| TBEHC0750-30 | 3/4 | 25 | 21 | 30 | 21.0 | 26.4 | 90 | 1000 | 1250 | 64.5 | C | |
| TBEHC1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 110 | 1000 | 1250 | 90.7 | C | |
| TBEHC1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 130 | 1000 | 1250 | 112.6 | C | |
| TBEHC1500-15 | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 190 | 2500 | 1250 | 134.5 | C | |
| TBEHC2000-15 | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 250 | 2500 | 1250 | 148.7 | C | |

Packaging sizes: B = box 500 x 500 x 275 mm
C = reel 800 mm ø

See page 224 for explanations on min. bending radius and temperature ranges

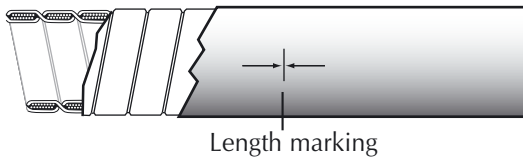
Other sizes available upon request - please contact your Sales Office

For T&B liquidtight fittings see pages 238 to 246

Special fittings (HT series) rated at 150°C are now available for high temperature applications - please contact your Sales Office for product availability

Flexible metallic liquidtight conduits Type TBZH - zero halogen

- Halogen free and low smoke outer jacket
- Ideal for applications where human lives can be a concern: public transportation, metro, train,...
- Heavy duty double interlocked / single interlocked (with packing) galvanised steel core
- Cotton packing for high flexibility (up to 1 1/4")
- High performance acid- and oil-resistant Olefin outer jacket, self-extinguishing within 30 seconds
- For use in safety areas (tunnels, public areas and transportation equipment)
- Marked lengths (every 1m) for quick and easy measuring and cutting
- NFF16-101 / NFF16-102 tested: I index = I3 (oxygen index = 40.7), F index = F1



Length marking



5/16" - 1 1/4"

1 1/2" - 2"



Technical Information

| | |
|--------------------------------|--|
| Outer jacket | Olefin, self-extinguishing within 30 seconds |
| Core | Galvanised steel |
| Packing | Cotton (up to 1 1/4") |
| Colour | Black |
| Temperature range | Static: -25°C to +90°C Flexing: -5°C to +90°C |
| Voltage breakdown (flash test) | > 2 kV |
| Insulation resistance | > 100 MOhm |
| System IP rating | IP67, when correctly installed with T&B liquidtight fittings |

Ordering Information

| PRODUCT REF. | NOMINAL SIZE | METRIC SIZE | FOR PG CONNECTION | LENGTH | INTERNAL DIAMETER | EXTERNAL DIAMETER | MIN. BENDING RADIUS | MECHANICAL VALUES | | | WEIGHT | TYPE OF PACKAGING |
|--------------|--------------|-------------|-------------------|--------|-------------------|-------------------|---------------------|-----------------------|---------------------------|-------|--------|-------------------|
| | | | | | | | | MIN. TENSILE STRENGTH | MIN. COMPRESSION STRENGTH | | | |
| | | | | | | | | | [N] | [N] | | |
| TBZH0375-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.5 | 17.8 | 60 | 1000 | 1250 | 41.9 | B | |
| TBZH0500-60 | 1/2 | 20 | 16 | 60 | 16.0 | 21.1 | 90 | 1000 | 1250 | 48.1 | B | |
| TBZH0750-50 | 3/4 | 25 | 21 | 50 | 21.0 | 26.4 | 110 | 1000 | 1250 | 68.9 | C | |
| TBZH1000-30 | 1 | 32 | 29 | 30 | 26.0 | 33.1 | 130 | 1000 | 1250 | 97.5 | C | |
| TBZH1250-30 | 1 1/4 | 40 | 36 | 30 | 34.8 | 41.8 | 160 | 1000 | 1250 | 123.3 | C | |
| TBZH1500-15 | 1 1/2 | 50 | 42 | 15 | 40.4 | 47.7 | 230 | 2500 | 1250 | 144.8 | C | |
| TBZH2000-15 | 2 | 63 | 48 | 15 | 51.6 | 60.0 | 300 | 2500 | 1250 | 161.0 | C | |

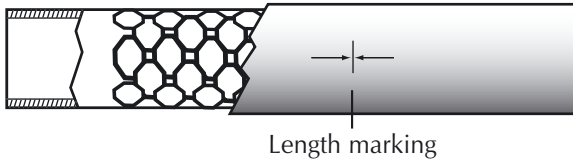
Packaging sizes: B = box 500 x 500 x 275 mm
C = reel 800 mm ø

For T&B liquidtight fittings see pages 238 to 246

Shureseal™

Flexible non-metallic liquidtight conduits Type LNMP - smooth outer surface

- UL and CSA approved
- Double layer construction offers a high level of mechanical stability for plastic tubing
- The Nylon lining between the 2 layers ensures a high level of flexibility
- High performance, durable acid- and oil resistant PVC outer jacket
- Perfectly designed for fittings which have to be safe, secure and electrically insulated
- Marked in lengths of 1 foot / 30.48 cm for quick and easy measuring and cutting
- High retention assured when used in association with T&B special fittings (Product Ref. 37XX and 63XX) (see pages 247 and 248)



4.1

Technical Information

| | |
|-------------------|--|
| Material | 2 layers of PVC with a woven Nylon fabric in between |
| Colour | Orange |
| Temperature range | -20°C to +60°C |
| System IP rating | IP66, when correctly installed with T&B liquidtight fittings |

Approvals



E 79308 (N)



LL018858

Ordering Information

| PRODUCT REF. | NOMINAL SIZE [inch] | METRIC SIZE [mm] | FOR PG CONNECTION | LENGTH [m] | INTERNAL DIAMETER [mm] | EXTERNAL DIAMETER [mm] | MIN. BENDING RADIUS [mm] | WEIGHT [kg/100 m] | TYPE OF PACKAGING |
|--------------|------------------------|---------------------|-------------------|---------------|---------------------------|---------------------------|-----------------------------|----------------------|-------------------|
| LNMP038-75 | 3/8 | 16 | 11 / 13.5 | 75 | 12.32 | 19.63 | 63.5 | 23.3 | D |
| LNMP050-60 | 1/2 | 20 | 16 | 60 | 15.75 | 23.62 | 76.2 | 33.3 | D |
| LNMP075-50 | 3/4 | 25 | 21 | 50 | 20.70 | 29.72 | 101.6 | 46.7 | D |
| LNMP100-30 | 1 | 32 | 29 | 30 | 26.16 | 36.58 | 152.4 | 63.3 | D |
| LNMP125-30 | 1 1/4 | 40 | 36 | 30 | 34.80 | 46.36 | 177.8 | 93.3 | D |
| LNMP150-15 | 1 1/2 | 50 | 42 | 15 | 40.26 | 52.83 | 203.2 | 120.0 | E |
| LNMP200-15 | 2 | 63 | 48 | 15 | 52.71 | 65.79 | 228.6 | 180.0 | E |

Packaging sizes: D = Box 860 x 860 x 165 mm
E = Box 1060 x 1060 x 195 mm

For T&B liquidtight fittings for non-metallic conduits see pages 247 and 248

Shureseal™

Flexible non-metallic liquidtight conduits Type EFC - with strengthened inner coil

- Highly flexible, liquidtight plastic tubing with strengthened inner coil
- UV-resistant and weatherproof
- High chemical resistance
- UL recognised under File No. E 96548
- CSA approved File No. LL 067241
- Crush-resistant due to stiffening effects of strengthened inner coil
- The ultra-smooth inner surface ensures that cables and conductors can be fed through very easily
- Can be used with plastic or metallic T&B "Bullet" fittings (see pages 249 to 253)



Technical Information

| | |
|-------------------|--|
| Material | PVC |
| Colour | Black or orange* or blue* |
| Temperature range | -18°C to +75°C (CSA) -18°C to +60°C (UL) |
| System IP rating | IP65, when correctly installed with T&B liquidtight fittings |

* Add suffix -1 for orange, -2 for blue to Product Ref. (e.g. EFC025-1 for orange conduit)



Approvals



LL067241



E96548

Ordering Information

| PRODUCT REF. | NOMINAL SIZE [inch] | METRIC SIZE [mm] | LENGTH [m] | INTERNAL DIAMETER [mm] | EXTERNAL DIAMETER [mm] | MIN. BENDING RADIUS [mm] | WEIGHT [kg/100 m] | TYPE OF PACKAGING |
|--------------|------------------------|---------------------|---------------|---------------------------|---------------------------|-----------------------------|----------------------|-------------------|
| EFC025 | 1/4 | 10 | 30.5 | 10.0 | 14.6 | 20 | 7.3 | reel |
| EFC038 | 3/8 | 16 | 30.5 | 12.3 | 18.0 | 25 | 10.7 | reel |
| EFC050 | 1/2 | 20 | 30.5 | 15.8 | 21.3 | 30 | 12.4 | reel |
| EFC075 | 3/4 | 25 | 30.5 | 20.8 | 26.7 | 40 | 15.3 | reel |
| EFC100 | 1 | 32 | 30.5 | 26.4 | 33.4 | 50 | 23.8 | reel |
| EFC125 | 1 1/4 | 40 | 30.5 | 35.1 | 42.2 | 60 | 31.6 | reel |
| EFC150 | 1 1/2 | 50 | 15.2 | 40.0 | 48.3 | 70 | 43.8 | reel |
| EFC200 | 2 | 63 | 15.2 | 51.3 | 60.3 | 85 | 59.5 | reel |

For T&B "Bullet" fittings see pages 249 to 253

Flexible conduits

Material specifications

4.1

This chart gives an indication of the capabilities of the Shureseal™ liquidtight flexible metallic conduits. It is extremely difficult to provide data on all possible combinations or conditions that can occur.

Therefore it is recommended that this information should be used as a guideline and that the conduit should be tested in the intended application by the user, to determine suitability. If you have specific requirements, please contact Technical Support.

Material specifications table

| CHEMICAL | TBEF | TBOR | TBHC | TBZH | TBDL | EFC | LNMP | PGS |
|---|------|------|------|------|------|-----|------|-----|
| OILS AND HYDROCARBONS | | | | | | | | |
| ASTM Oil No 1 | T | T | G | P | T | G | – | T |
| ASTM Oil No 2 | T | T | G | P | L | – | – | L |
| ASTM Oil No 3 | T | T | G | P | T | L | L | T |
| Diesel Oil | T | T | T | T | T | L | L | T |
| Lubricating Oil | L | L | G | L | L | G | G | L |
| Paraffin Oil | G | G | T | T | G | G | – | G |
| Petrol | G | G | L | T | G | – | – | G |
| Skydrol 500B | T | T | G | T | T | – | P | T |
| Transformer Oil | T | T | T | T | T | – | – | T |
| Vegetable Oils | T | T | T | T | T | – | G | T |
| ORGANIC SOLVENTS | | | | | | | | |
| Acetone | P | P | L | P | P | P | P | P |
| Benzene | P | P | L | P | P | P | P | P |
| Ethyl Alcohol | P | P | L | L | P | G | L | P |
| Ethylene Glycol | L | L | G | T | L | G | G | L |
| Eteon 12 | T | T | G | T | T | – | – | T |
| Methyl Alcohol | P | P | G | L | P | G | L | P |
| Methyl Ethyl Ketone | T | T | L | P | T | P | P | T |
| Toluene 100 % | P | P | L | L | P | P | P | P |
| Turpentine 100 % | L | L | T | L | L | L | L | L |
| White Spirit | T | T | T | L | T | – | – | T |
| ACIDS AND SALTS GIVING ACID SOLUTIONS | | | | | | | | |
| Acetic Acid 10 % | G | G | G | T | G | G | G | G |
| Acetic Acid 20% | L | L | G | T | L | – | – | L |
| Hydrochloric Acid 10 % | – | – | – | – | – | – | G | – |
| Hydrochloric Acid 20 % | L | L | L | P | L | G | – | L |
| Hydrochloric Acid 40 % | – | – | – | – | – | – | L | – |
| Lactic Acid (90%) | T | T | T | T | T | P | – | T |
| Oxalic Acid | G | G | T | T | G | G | G | G |
| Zinc Chloride | G | G | G | T | G | G | G | G |
| BASES AND SALTS GIVING BASIC SOLUTIONS | | | | | | | | |
| Aluminium Chloride (10%) | G | G | G | G | G | G | G | G |
| Sodium Hydroxide (20%) | T | T | G | G | T | G | G | T |
| Sodium Hydroxide (45%) | T | T | L | L | T | G | G | T |
| OTHERS | | | | | | | | |
| Ozone Gas | G | G | T | T | G | – | – | G |
| Sea Water | G | G | G | G | G | G | G | G |

- G = Good
- L = Limited
- P = Poor
- S = Swelling
- T = No data available
likely to have minor effect

Shureseal™

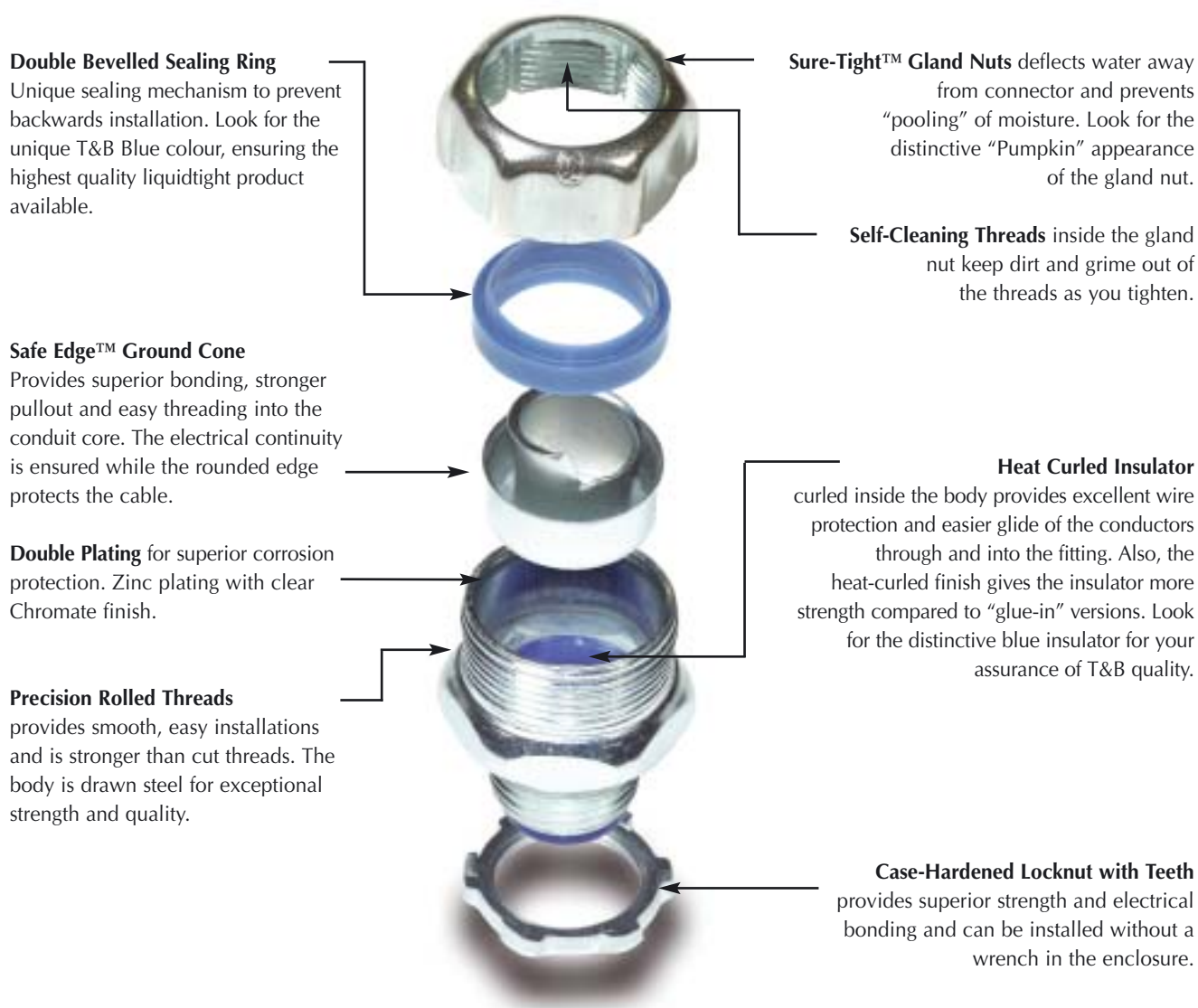
Liquidtight fittings for flexible metallic conduits

Product description

A standard fitting assembly is made of 4 pieces:

1. A screw body with a nylon throat on the connection side
2. The ground cone
3. The patented Nylon sealing ring
4. A gland nut

In addition, a locknut is supplied with the fittings with NPT thread.



Product description

When correctly installed, the Shureseal™ fittings produce a positive seal against oil, liquids, moisture and dust.

The main features of the assembly include:

- a high resistance to conduit pull-off and a great resistance to vibration from machines
- an excellent earth continuity
- simplicity of installation: ability to install quickly by hand (or with standard spanners or wrenches, but no special tools are needed)
- the fittings will not damage or distort the flexible conduit.
- the nylon throat bush makes it easier to pull wires through without risk of damage.
- the fittings have a rugged construction and can be disconnected and reused.
- available with N.P.T., Imperial, P.G. and metric (I.S.O.) threads
- excellent IP ratings

The patented ground cone design offers the following advantages:

- it compresses the metallic convolutions of the conduit, providing a high quality ground contact with low impedance and a high conduit pull-off resistance
- the single helical thread on the ground cone is easy to install without cross threading
- it tolerates variations in conduit diameters and convolution pitch
- its rolled-over edge protects the conductors

The patented sealing ring design has the following exclusive features:

- it grips and seals the conduit without damaging the conduit jacket
- its symmetrical shape assures a foolproof assembly
- it ensures a positive seal against oils, liquids, moisture and dust

The range of fittings includes 5 different styles:

- straight version
- 45° version
- 90° version
- "Chase" = compact version for confined spaces, behind panels and boxes
- "Female Hub" version, for connecting flexible conduit direct to rigid conduit and flexible conduits

Approvals

- C.E.G.B. approved (UK)
- UL listed Liquidtight File No E 23018
- ISO threads per BS 4568
- PG threads per DIN 40430
- Canadian Standard Association:
File No. 002884, File No. LR 052391, File No. LR 82069

Easy assembly without the requirement of any special tooling

1. Slide the gland nut and the sealing ring onto the conduit



2. Screw the ground cone into the conduit (between the convolutions) as far as possible



3. Screw the body and the gland nut together and tighten



Female PG and male NPT compatibility

The Thomas & Betts fittings are available in four different thread forms: NPT (National Pipe Taper), PG (Panzergewinde), Imperial and metric (I.S.O.).

NPT and PG threads have different contours (fig. 1 & 2). However a fitting with a male NPT thread (up to 2 inches) can easily be screwed into a part with a female PG thread (see table of compatibility for correspondences)

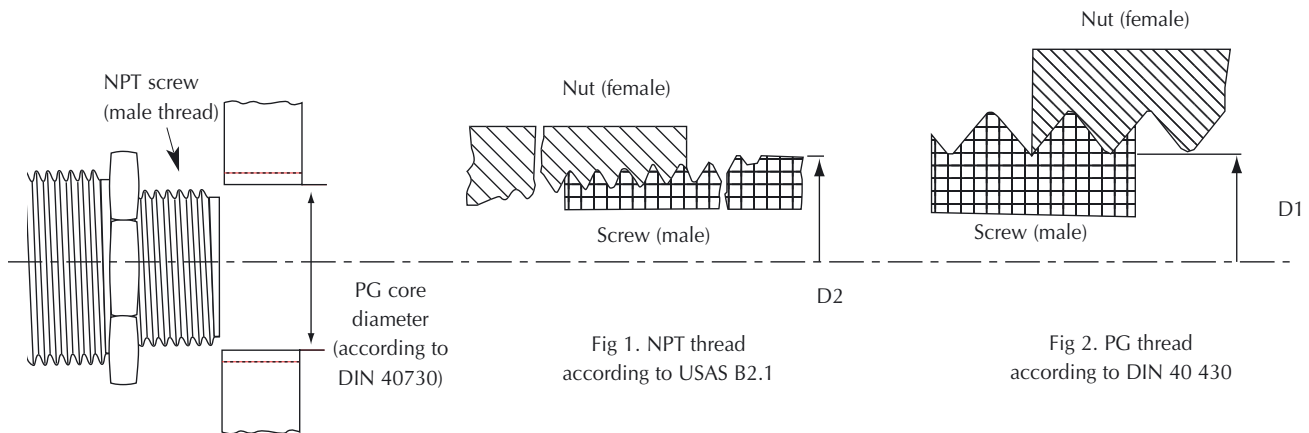


Fig 1. NPT thread according to USAS B2.1

Fig 2. PG thread according to DIN 40 430

Table of compatibility

| NPT MALE THREAD SIZE [inch] | MAX. OUTER DIAMETER D2 (ON NPT MALE THREAD) [mm] | | MIN. CORE DIAMETER D1 (ON PG FEMALE THREAD) [mm] | CORRESPONDING PG FEMALE THREAD SIZE |
|-----------------------------|--|---|--|-------------------------------------|
| 3/8 | 16.66 | → | 17.26 | PG 11 |
| 3/8 | 16.66 | → | 19.06 | PG 13.5 |
| 1/2 | 20.96 | → | 21.16 | PG 16 |
| 3/4 | 26.44 | → | 26.78 | PG 21 |
| 1 | 33.25 | → | 35.48 | PG 29 |
| 1 1/4 | 41.91 | → | 45.48 | PG 36 |
| 1 1/2 | 47.80 | → | 52.48 | PG 42 |
| 2 | 59.61 | → | 57.78 | PG 48 |

Liquidtight fittings for flexible metallic conduits

General information

Technical Information

| | |
|-------------------------------|---------------------------------------|
| Conduit type | Shureseal™ flexible metallic conduit |
| Style | Straight, 90° and 45° |
| Thread | NPT, Metric (I.S.O.), PG and Imperial |
| IP rating | IP67 |
| Material | Galvanised steel chromate finish |
| Inner sleeve and sealing ring | Polyamide |
| Colour | Metallic |

Special fittings (HT series) rated at 150°C are now available for high temperature applications - please contact your Sales Office for product availability



Approvals



002884



E23018

Shureseal™

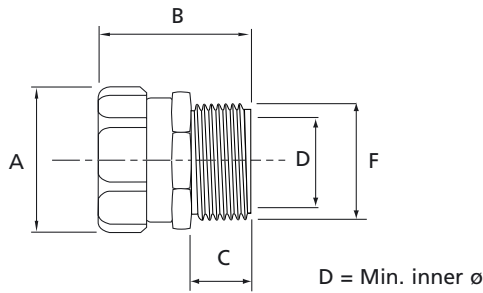
Liquidtight fittings for flexible
metallic conduits
Straight fittings



E23018



002884



Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE | DIMENSIONS | | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|---|----------------------------|----------------|------------|-----------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | F [mm] | | |
| STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD | | | | | | | | | |
| 9306* | 5/16 | M16 | 22 | 36 | 12 | 10.0 | 16.0 | 5.1 | 25 |
| 9307 | 5/16 | M20 | 22 | 36 | 12 | 10.0 | 20.0 | 5.1 | 25 |
| 9330* | 1/4 | M16 | 22 | 36 | 12 | 6.0 | 16.0 | 3.5 | 25 |
| 9331* | 1/4 | M20 | 22 | 36 | 12 | 6.0 | 20.0 | 3.5 | 25 |
| 9360 | 3/8 | M16 | 29 | 40 | 16 | 11.0 | 16.0 | 6.3 | 25 |
| 9361 | 3/8 | M20 | 29 | 40 | 16 | 11.0 | 20.0 | 6.3 | 25 |
| 9362 | 1/2 | M20 | 35 | 42 | 16 | 14.5 | 20.0 | 8.1 | 25 |
| 9363 | 3/4 | M25 | 42 | 45 | 16 | 20.0 | 25.0 | 12.6 | 25 |
| 9364 | 1 | M32 | 47 | 54 | 15 | 25.0 | 32.0 | 23.0 | 5 |
| STRAIGHT FITTING WITH PG THREAD | | | | | | | | | |
| 7329 | 1/4 | PG 7 | 12 | 23 | 6 | 5.6 | 12.2 | 2.2 | 25 |
| 7330* | 1/4 | PG 9 | 21 | 36 | 12 | 6.0 | 15.2 | 3.5 | 25 |
| 7360* | 5/16 | PG 9 | 26 | 36 | 12 | 10.0 | 15.2 | 5.1 | 25 |
| 7361 | 3/8 | PG 11 | 29 | 40 | 14 | 11.0 | 18.6 | 6.3 | 25 |
| 7362 | 3/8 | PG 13.5 | 29 | 40 | 14 | 11.0 | 20.4 | 6.3 | 25 |
| 7363 | 1/2 | PG 16 | 35 | 41 | 14 | 14.5 | 22.5 | 8.1 | 25 |
| 7364 | 3/4 | PG 21 | 42 | 43 | 14 | 20.0 | 28.3 | 12.6 | 25 |
| 7365 | 1 | PG 29 | 47 | 56 | 19 | 25.0 | 37.0 | 23.0 | 5 |
| 7366 | 1 1/4 | PG 36 | 58 | 67 | 21 | 33.5 | 47.0 | 41.4 | 5 |
| 7367 | 1 1/2 | PG 42 | 69 | 72 | 21 | 38.5 | 54.0 | 47.3 | 2 |
| 7368 | 2 | PG 48 | 83 | 81 | 21 | 49.5 | 59.3 | 72.0 | 1 |
| STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) | | | | | | | | | |
| 5229** | 1/4 | 1/4" | 21 | 35 | 12 | 6.0 | – | 3.5 | 25 |
| 5330** | 5/16 | 3/8" | 25 | 35 | 12 | 10.0 | – | 5.1 | 25 |
| 5331 | 3/8 | 1/2" | 29 | 38 | 14 | 11.0 | – | 6.3 | 25 |
| 5332 | 1/2 | 1/2" | 35 | 40 | 14 | 14.5 | – | 8.1 | 25 |
| 5333 | 3/4 | 3/4" | 42 | 41 | 14 | 20.0 | – | 12.6 | 25 |
| 5334-TB | 1 | 1" | 48 | 52 | 19 | 25.0 | – | 23.0 | 10 |
| 5335 | 1 1/4 | 1 1/4" | 58 | 64 | 21 | 33.5 | – | 41.4 | 5 |
| 5336 | 1 1/2 | 1 1/2" | 69 | 68 | 21 | 38.5 | – | 47.3 | 2 |
| 5337 | 2 | 2" | 83 | 78 | 22 | 49.5 | – | 72.0 | 5 |
| 5338 | 2 1/2 | 2 1/2" | 95 | 105 | 25 | 61.0 | – | 135.5 | 5 |
| 5339 | 3 | 3" | 114 | 108 | 25 | 75.0 | – | 168.8 | 5 |
| 5340 | 4 | 4" | 140 | 114 | 29 | 99.0 | – | 275.4 | 1 |
| STRAIGHT FITTING WITH IMPERIAL THREAD | | | | | | | | | |
| 6365 | 1 1/4 | 1 1/2" | 58 | 64 | 21 | 33.5 | – | 41.4 | 5 |
| 6366 | 1 1/2 | 2" | 69 | 68 | 21 | 38.5 | – | 47.3 | 2 |
| 6367 | 2 | 2 1/2" | 83 | 78 | 22 | 49.5 | – | 72.0 | 5 |

* The products with a * are not UL/CSA approved

** The products with a ** are not UL/CSA approved and are supplied without locknut

See pages 238 to 240 for product description and technical information

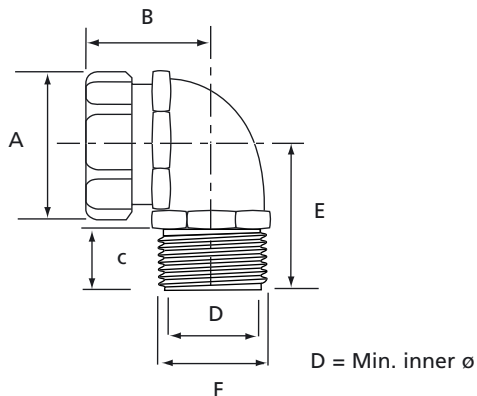
Liquidtight fittings for flexible
metallic conduits
90° fittings



E23018



002884



Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE | DIMENSIONS | | | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|----------------------------|----------------|------------|-----------|-----------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | | |
| 90° FITTING WITH METRIC (I.S.O.) THREAD | | | | | | | | | | |
| 9350 | 3/8 | M16 | 28 | 35 | 16 | 10.1 | 34 | 16.0 | 12.6 | 25 |
| 9351 | 3/8 | M20 | 28 | 35 | 16 | 10.1 | 34 | 20.0 | 12.6 | 25 |
| 9352-TB | 1/2 | M20 | 34 | 39 | 16 | 14.5 | 34 | 20.0 | 14.4 | 25 |
| 9353-TB | 3/4 | M25 | 42 | 43 | 16 | 20.0 | 38 | 25.0 | 20.2 | 10 |
| 9354-TB | 1 | M32 | 47 | 48 | 23 | 25.0 | 43 | 32.0 | 30.6 | 5 |
| 90° FITTING WITH PG THREAD | | | | | | | | | | |
| 7351 | 3/8 | PG 11 | 29 | 37 | 14 | 11.0 | 33 | 18.6 | 12.6 | 25 |
| 7352 | 3/8 | PG 13.5 | 29 | 37 | 14 | 11.0 | 33 | 20.4 | 12.6 | 25 |
| 7353 | 1/2 | PG 16 | 35 | 40 | 14 | 14.5 | 37 | 22.5 | 14.4 | 25 |
| 7354 | 3/4 | PG 21 | 42 | 44 | 14 | 20.0 | 39 | 28.3 | 20.2 | 5 |
| 7355 | 1 | PG 29 | 47 | 56 | 21 | 25.0 | 48 | 37.0 | 30.6 | 5 |
| 7356 | 1 1/4 | PG 36 | 58 | 70 | 21 | 33.5 | 56 | 47.0 | 54.0 | 5 |
| 7357 | 1 1/2 | PG 42 | 69 | 75 | 21 | 38.5 | 61 | 54.0 | 72.0 | 2 |
| 7358 | 2 | PG 48 | 83 | 87 | 24 | 49.5 | 66 | 59.3 | 103.5 | 1 |
| 90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) | | | | | | | | | | |
| 5351 | 3/8 | 1/2" | 29 | 35 | 14 | 11.0 | 33 | - | 12.6 | 25 |
| 5352 | 1/2 | 1/2" | 35 | 40 | 14 | 14.5 | 37 | - | 14.4 | 25 |
| 5353 | 3/4 | 3/4" | 42 | 45 | 14 | 20.0 | 39 | - | 20.2 | 10 |
| 5354 | 1 | 1" | 48 | 56 | 19 | 25.0 | 48 | - | 30.6 | 5 |
| 5355 | 1 1/4 | 1 1/4" | 58 | 70 | 21 | 33.5 | 56 | - | 54.0 | 5 |
| 5356 | 1 1/2 | 1 1/2" | 69 | 75 | 21 | 38.5 | 61 | - | 72.0 | 5 |
| 5357 | 2 | 2" | 83 | 287 | 22 | 49.5 | 66 | - | 103.5 | 2 |
| 5358 | 2 1/2 | 2 1/2" | 95 | 225 | 25 | 61.0 | 149 | - | 270.0 | 1 |
| 5359 | 3 | 3" | 114 | 260 | 25 | 75.0 | 219 | - | 393.8 | 1 |
| 5360 | 4 | 4" | 140 | 321 | 29 | 99.0 | 299 | - | 551.0 | 1 |
| 90° FITTING WITH IMPERIAL THREAD | | | | | | | | | | |
| 6355 | 1 1/4 | 1 1/2" | 58 | 64 | 21 | 33.5 | 56 | - | 54.0 | 5 |
| 6356 | 1 1/2 | 2" | 69 | 68 | 21 | 38.5 | 61 | - | 72.0 | 2 |

See pages 238 to 240 for product description and technical information

Shureseal™

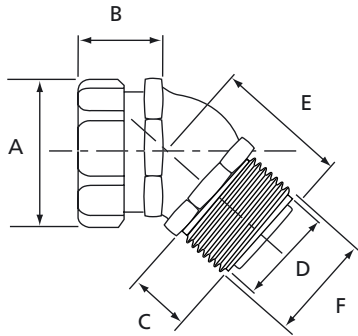
Liquidtight fittings for flexible
metallic conduits
45° fittings



E23018



002884



D = Min. inner ϕ



Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE | DIMENSIONS | | | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|----------------------------|----------------|------------|-----------|-----------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | | |
| 45° FITTING WITH METRIC (I.S.O.) THREAD | | | | | | | | | | |
| 9340 | 3/8 | M16 | 28 | 35 | 16 | 10.1 | 34 | 16.0 | 12.6 | 25 |
| 9341 | 3/8 | M20 | 28 | 35 | 16 | 10.1 | 34 | 20.0 | 12.6 | 25 |
| 9342 | 1/2 | M20 | 34 | 39 | 16 | 14.5 | 34 | 20.0 | 14.4 | 25 |
| 9343-TB | 3/4 | M25 | 42 | 43 | 16 | 20.0 | 38 | 25.0 | 20.2 | 10 |
| 9344 | 1 | M32 | 47 | 48 | 23 | 25.0 | 43 | 32.0 | 30.6 | 5 |
| 45° FITTING WITH PG THREAD | | | | | | | | | | |
| 7341 | 3/8 | PG 11 | 29 | 37 | 14 | 11.0 | 33 | 18.6 | 12.6 | 25 |
| 7342 | 3/8 | PG 13.5 | 29 | 37 | 14 | 11.0 | 33 | 20.4 | 12.6 | 25 |
| 7343 | 1/2 | PG 16 | 35 | 40 | 14 | 14.5 | 37 | 22.5 | 14.4 | 25 |
| 7344-TB | 3/4 | PG 21 | 42 | 44 | 14 | 20.0 | 39 | 28.3 | 20.2 | 5 |
| 7345 | 1 | PG 29 | 47 | 56 | 21 | 25.0 | 48 | 37.0 | 30.6 | 5 |
| 7346 | 1 1/4 | PG 36 | 58 | 70 | 21 | 33.5 | 56 | 47.0 | 54.0 | 5 |
| 7347 | 1 1/2 | PG 42 | 69 | 75 | 21 | 38.5 | 61 | 54.0 | 72.0 | 2 |
| 7348-TB | 2 | PG 48 | 83 | 87 | 24 | 49.5 | 66 | 59.3 | 103.5 | 1 |
| 45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) | | | | | | | | | | |
| 5341 | 3/8 | 1/2" | 29 | 35 | 14 | 11.0 | 33 | - | 12.6 | 25 |
| 5342 | 1/2 | 1/2" | 35 | 40 | 14 | 14.5 | 37 | - | 14.4 | 25 |
| 5343 | 3/4 | 3/4" | 42 | 45 | 14 | 20.0 | 39 | - | 20.2 | 10 |
| 5344 | 1 | 1" | 48 | 56 | 19 | 25.0 | 48 | - | 30.6 | 5 |
| 5345 | 1 1/4 | 1 1/4" | 58 | 70 | 21 | 33.5 | 56 | - | 54.0 | 5 |
| 5346 | 1 1/2 | 1 1/2" | 69 | 75 | 21 | 38.5 | 61 | - | 72.0 | 2 |
| 5347 | 2 | 2" | 83 | 287 | 22 | 49.5 | 66 | - | 103.5 | 1 |
| 5348* | 2 1/2 | 2 1/2" | 95 | 225 | 25 | 61.0 | 149 | - | 270.0 | 1 |
| 5349* | 3 | 3" | 114 | 260 | 25 | 75.0 | 219 | - | 393.8 | 1 |
| 5350* | 4 | 4" | 140 | 321 | 29 | 99.0 | 299 | - | 551.0 | 1 |
| 45° FITTING WITH IMPERIAL THREAD | | | | | | | | | | |
| 6346 | 1 1/2 | 2" | 69 | 68 | 21 | 38.5 | 61 | - | 72.0 | 2 |
| 6347 | 2 | 2 1/2" | 83 | 78 | 22 | 49.5 | 66 | - | 103.5 | 1 |

* The Product Ref. with a * are not UL/CSA approved
See pages 238 to 240 for product description and technical information

Shureseal™

Liquidtight fittings for flexible metallic conduits

"Chase" fittings, straight or right-angled

- High-performance fittings for Shureseal™ liquidtight conduits
- Special compact version (CHASE) for space-saving assembly, thanks to the male nipple (supplied with the fitting) that can be screwed into the female thread of the body
- Safe and effective installation without any efforts
- The fitting is composed of 6 parts: the threaded body, the steel ground cone, the nylon sealing ring, the gland nut, the sealing washer and a male nipple, ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts



Technical Information

| | |
|------------------------------------|---------------------------------------|
| Conduit type | Shureseal™ flexible metallic conduit |
| Style/thread | Straight or right angled, NPT threads |
| System IP rating | IP67 |
| Material | Zinc plated steel |
| Insulation throat and sealing ring | Polyamide |
| Colour | Metallic |

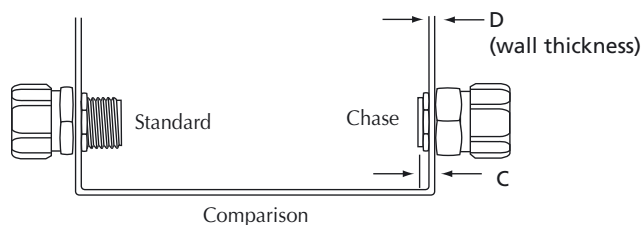
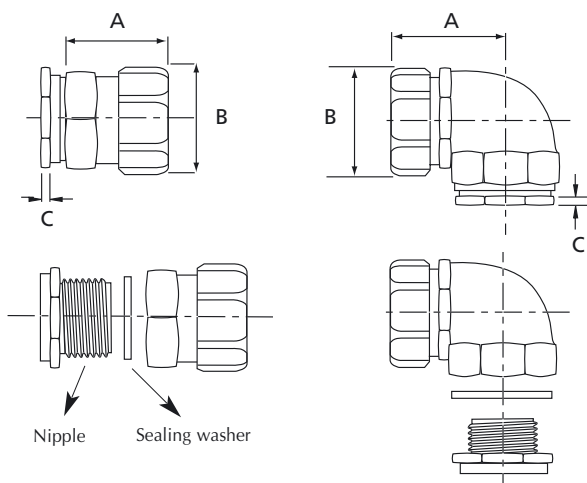
Approvals



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E23018



Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | DIMENSIONS | | | FOR WALL THICKNESS (D) UP TO [mm] | INSTALLATION HOLE DIAMETER [mm] | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|----------------------------|------------|-----------|-----------|--------------------------------------|------------------------------------|--------------------|----------------------|
| | | A [mm] | B [mm] | C [mm] | | | | |
| STRAIGHT CHASE FITTING - (SUPPLIED WITH MALE NIPPLE AND SEALING WASHER) | | | | | | | | |
| 5361 | 3/8 | 35 | 30 | 3.2 | 5 | 22.2 | 8.1 | 25 |
| 5362 | 1/2 | 35 | 36 | 4.7 | 5 | 22.2 | 9.9 | 25 |
| 5363 | 3/4 | 41 | 44 | 6.3 | 8 | 27.8 | 15.4 | 25 |
| 5364 | 1 | 52 | 50 | 6.3 | 10 | 33.3 | 29.0 | 10 |
| 5365 | 1 1/4 | 60 | 69 | 7.9 | 12 | 44.5 | 58.0 | 5 |
| 5366 | 1 1/2 | 69 | 75 | 9.5 | 13 | 50.8 | 68.0 | 2 |
| 5367 | 2 | 76 | 88 | 9.5 | 15 | 63.5 | 99.7 | 1 |
| 5368 | 2 1/2 | 100 | 107 | 11.1 | 15 | 76.2 | 199.4 | 1 |
| 5369 | 3 | 105 | 125 | 17.2 | 17 | 92.1 | 253.7 | 1 |
| 5370 | 4 | 111 | 155 | 19.0 | 19 | 117.5 | 407.7 | 1 |
| 90° CHASE FITTING - (SUPPLIED WITH MALE NIPPLE AND SEALING WASHER) | | | | | | | | |
| 5371 | 3/8 | 38 | 30 | 3.2 | 5 | 22.2 | 8.1 | 25 |
| 5372 | 1/2 | 37 | 36 | 4.7 | 5 | 22.2 | 9.9 | 25 |
| 5373 | 3/4 | 48 | 44 | 6.3 | 8 | 27.8 | 18.1 | 10 |
| 5374 | 1 | 57 | 50 | 6.3 | 10 | 33.3 | 30.8 | 5 |

Shureseal™

Liquidtight fittings for flexible metallic conduits

Female hub and adaptor fittings

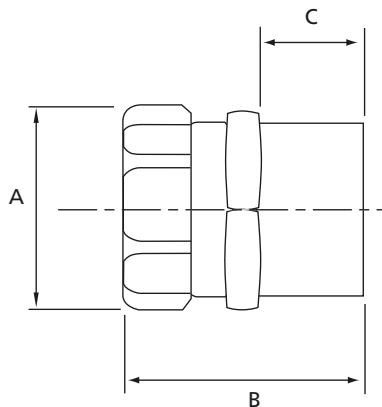
- High-performance special type fittings for Shureseal™ Liquidtight conduit
- **Special type hub fitting** with female (internal) thread for connecting flexible conduits to rigid conduits or for connecting 2 flexible conduits together (using male fittings)
- **Special type adaptor fitting** with female (internal) thread for connecting flexible conduits to AN-MS connector shells (such as MIL-C-5015 connectors and accessories)
- Safe and effective installation without any efforts
- The fitting is composed of 4 parts: the threaded body, the zinc plated steel ground cone, the nylon sealing ring and the gland nut ensuring an easy assembly without the need for specific tools
- The steel ground cone which is screwed into the conduit ensures an excellent earthing continuity and pull-off strength, as well as a very good resistance against vibrations
- Re-useable and independent replacement parts



4.2

Technical Information

| | |
|------------------------------------|--|
| Conduit type | Shureseal™ flexible metallic conduits |
| Style | Straight |
| Thread | NPT, metric (I.S.O.) and UNEF female threads |
| System IP rating | IP67 |
| Material | Zinc plated steel |
| Insulation throat and sealing ring | Polyamide |
| Colour | Metallic |



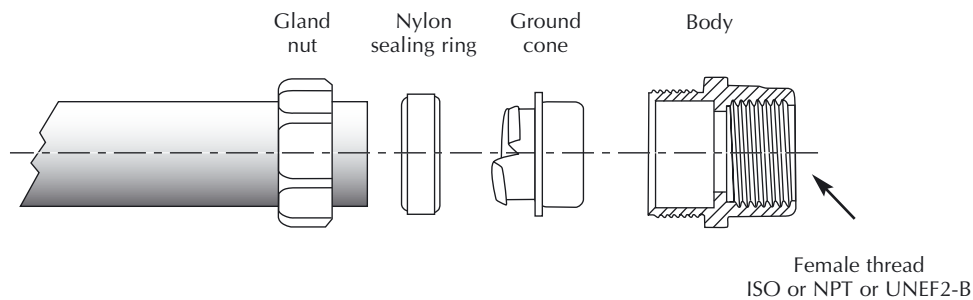
Approvals



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E23018



Liquidtight fittings for flexible
metallic conduits
Female hub and adaptor fittings

Ordering Information

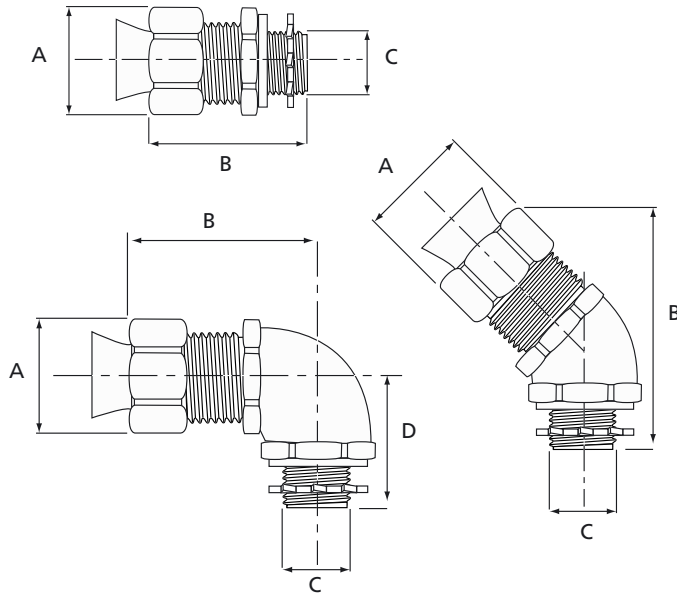
| PRODUCT REF. | FOR CONDUIT SIZE [inch] | INNER THREAD | AN-MS CONNECTOR SHELL SIZE | DIMENSIONS | | | WEIGHT [kg/100] | PACKAGING SIZE [pieces] |
|--|-------------------------------|----------------------|-------------------------------|------------|-----------|-----------|--------------------|----------------------------|
| | | | | A [mm] | B [mm] | C [mm] | | |
| STRAIGHT FEMALE HUB FITTING WITH METRIC (I.S.O.) THREAD | | | | | | | | |
| 9270 | 3/8 | M16 | – | 28 | 40 | 15 | 7.0 | 25 |
| 9271 | 3/8 | M20 | – | 30 | 40 | 15 | 7.2 | 25 |
| 9272 | 1/2 | M20 | – | 34 | 43 | 15 | 10.0 | 25 |
| 9273 | 3/4 | M25 | – | 42 | 45 | 15 | 14.5 | 25 |
| 9274 | 1 | M32 | – | 47 | 54 | 15 | 19.0 | 5 |
| STRAIGHT FEMALE HUB FITTING WITH NPT THREAD | | | | | | | | |
| 5271 | 3/8 | 1/2" | – | 25 | 40 | 15 | 7.2 | 25 |
| 5272 | 1/2 | 1/2" | – | 32 | 43 | 15 | 10.0 | 25 |
| 5273 | 3/4 | 3/4" | – | 38 | 44 | 15 | 14.5 | 25 |
| 5274 | 1 | 1" | – | 44 | 54 | 20 | 19.0 | 10 |
| 5275 | 1 1/4 | 1 1/4" | – | 58 | 64 | 20 | 32.6 | 5 |
| 5276 | 1 1/2 | 1 1/2" | – | 70 | 68 | 20 | 54.4 | 5 |
| 5277 | 2 | 2" | – | 88 | 78 | 25 | 72.5 | 5 |
| STRAIGHT ADAPTORS FITTING WITH UNEF THREAD | | | | | | | | |
| LTA03810 | 3/8 | 5/8" - 24 UNEF-2B | 10SL, 12, 12S | 25.4 | 11.9 | – | 6.8 | 25 |
| LTA03814 | 3/8 | 3/4" - 20 UNEF-2B | 14, 14S | 25.4 | 11.9 | – | 7.3 | 25 |
| LTA05014 | 1/2 | 3/4" - 20 UNEF-2B | 14, 14S | 31.8 | 23.8 | – | 8.7 | 25 |
| LTA05016 | 1/2 | 7/8" - 20 UNEF-2B | 16, 16S | 31.8 | 23.8 | – | 8.7 | 25 |
| LTA05018 | 1/2 | 1" - 20 UNEF-2B | 18 | 31.8 | 23.8 | – | 8.7 | 25 |
| LTA07516 | 3/4 | 7/8" - 20 UNEF-2B | 16, 16S | 38.1 | 27.0 | – | 13.6 | 25 |
| LTA07518 | 3/4 | 1" - 20 UNEF-2B | 18 | 38.1 | 27.0 | – | 13.6 | 25 |
| LTA07520 | 3/4 | 1 3/16" - 18 UNEF-2B | 20, 22 | 38.1 | 27.0 | – | 13.6 | 25 |
| LTA10020 | 1 | 1 3/16" - 18 UNEF-2B | 20, 22 | 43.7 | 44.5 | – | 21.0 | 10 |
| LTA10024 | 1 | 1 7/16" - 18 UNEF-2B | 25, 28 | 43.7 | 44.5 | – | 21.0 | 10 |

Shureseal™

Liquidtight fittings for non-metallic conduits

Type LNMP - metallic fittings

- Easy installation
- Inner polyamide sleeve for protection of conductors
- Liquid- and dust-tight in accordance with IP66
- High mechanical stability (high retention)
- Supplied with locknut and sealing washer



4.2

Technical Information

| | |
|---|-----------------------------------|
| Conduit type | Shureseal™ conduit type LNMP |
| Style/thread | Straight, 45°, 90°, NPT thread |
| System IP rating | IP66 |
| Material | Galvanised steel, chromate finish |
| Connecting sleeve and internal insulation | Polyamide 6.6 |
| Colour | Metallic |

Approvals



E23018

Ordering Information

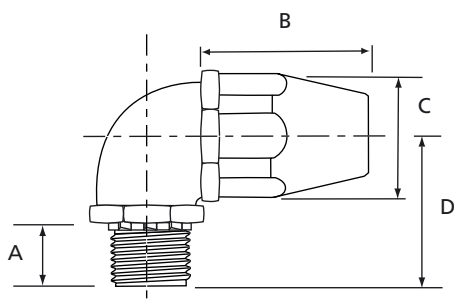
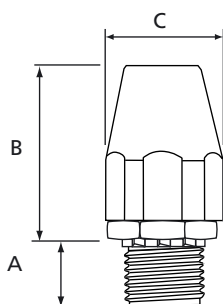
| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE [inch] | DIMENSIONS | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|-------------------------------|--------------------------|------------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | | |
| STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER) | | | | | | | | |
| 3720-TB* | 3/8 | 1/2 | 29.4 | 51.0 | 12.0 | - | 8.2 | 25 |
| 3721-TB | 1/2 | 1/2 | 34.9 | 54.0 | 16.0 | - | 9.1 | 25 |
| 3722-TB | 3/4 | 3/4 | 41.3 | 57.2 | 21.0 | - | 13.6 | 25 |
| 3723 | 1 | 1 | 47.6 | 63.5 | 26.0 | - | 23.6 | 10 |
| 3724-TB | 1 1/4 | 1 1/4 | 60.3 | 76.2 | 35.0 | - | 40.0 | 5 |
| 3725 | 1 1/2 | 1 1/2 | 69.9 | 85.7 | 41.0 | - | 59.0 | 2 |
| 3726 | 2 | 2 | 89.7 | 92.1 | 50.0 | - | 118.0 | 1 |
| 45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER) | | | | | | | | |
| 3730-TB* | 3/8 | 1/2 | 29.4 | 51.6 | 12.0 | - | 5.4 | 25 |
| 3731-TB | 1/2 | 1/2 | 34.9 | 65.1 | 16.0 | - | 8.2 | 25 |
| 3732 | 3/4 | 3/4 | 41.3 | 76.2 | 21.0 | - | 20.8 | 10 |
| 3733-TB | 1 | 1 | 47.6 | 88.9 | 26.0 | - | 31.2 | 5 |
| 3734-TB | 1 1/4 | 1 1/4 | 60.3 | 104.8 | 35.0 | - | 54.4 | 5 |
| 3735-TB | 1 1/2 | 1 1/2 | 69.9 | 123.8 | 41.0 | - | 77.0 | 2 |
| 90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING WASHER) | | | | | | | | |
| 3740* | 3/8 | 1/2 | 29.4 | 41.3 | 12.0 | 33.3 | 5.0 | 25 |
| 3741 | 1/2 | 1/2 | 34.9 | 44.5 | 16.0 | 35.7 | 7.7 | 25 |
| 3742 | 3/4 | 3/4 | 41.3 | 57.2 | 21.0 | 39.7 | 22.6 | 10 |
| 3743-TB | 1 | 1 | 47.6 | 65.1 | 26.0 | 47.6 | 30.7 | 5 |
| 3744-TB | 1 1/4 | 1 1/4 | 60.3 | 82.6 | 35.0 | 57.2 | 54.4 | 5 |
| 3745 | 1 1/2 | 1 1/2 | 69.9 | 88.9 | 41.0 | 60.3 | 77.0 | 2 |
| 3746-TB | 2 | 2 | 89.7 | 104.8 | 53.2 | 73.0 | 145.0 | 1 |

* The Product Ref. with a * are not UL approved

Liquidtight fittings for non-metallic conduits

Type LNMP - plastic fittings

- Easy installation
- High strength, chemical resistant, non-burning, non dripping thermoplastic construction
- Smooth insulated body throughout for maximum dielectric strength
- Ideal for corrosion resistant applications
- Liquid- and dust-tight in accordance with IP66
- Serrated design provides high mechanical pullout strength
- Supplied with steel locknut and sealing 'O' ring



Technical Information

| | |
|------------------|--|
| Conduit type | Shureseal™ conduit type LNMP |
| Style/thread | Straight, 90° |
| System IP rating | IP66 |
| Material | Body: thermoplastic Gland nut: thermoplastic 'O' Ring: Neoprene Locknut: Steel, case hardened and zinc plated |

Approvals

MEETS
COAST
GUARD

CG293

E23018

Ordering Information

| PRODUCT REF. | FOR CONDUIT SIZE [inch] | THREAD SIZE [inch] | DIMENSIONS | | | | QUANTITY [pieces] |
|--|-------------------------------|--------------------------|------------|-----------|-----------|-----------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | D [mm] | |
| STRAIGHT PLASTIC FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING 'O' RING) | | | | | | | |
| 6302 | 1/2 | 1/2 | 37.6 | 57.9 | 14.5 | – | 20 |
| 6303 | 3/4 | 3/4 | 44.7 | 62.5 | 19.1 | – | 10 |
| 6304 | 1 | 1 | 53.3 | 67.6 | 24.4 | – | 5 |
| 6305 | 1 1/4 | 1 1/4 | 67.8 | 78.5 | 32.0 | – | 5 |
| 90° PLASTIC FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT AND SEALING 'O' RING) | | | | | | | |
| 6322 | 1/2 | 1/2 | 37.6 | 39.6 | 14.5 | 39.9 | 20 |
| 6323 | 3/4 | 3/4 | 44.7 | 44.2 | 19.1 | 43.4 | 10 |
| 6324 | 1 | 1 | 53.3 | 45.2 | 24.4 | 50.8 | 5 |
| 6325 | 1 1/4 | 1 1/4 | 67.8 | 54.1 | 32.0 | 61.2 | 5 |

Shureseal™

Liquidtight fittings for non-metallic conduits

Type EFC - plastic Bullet fittings

- Liquid-tight, dust-tight and oil-resistant
- Thomas & Betts patented quick connecting feature designed to prevent unlocking
- The spiral-shaped EFC conduit coil locks into fitting
- No loose pieces - secure against vibration
- Supplied with sealing washer (O ring)
- Fittings with NPT threads are supplied with locknut

Technical Information

| | |
|---------------------|---|
| Conduit type | Shureseal™ conduit type EFC |
| Style/thread | Straight, 45°, 90°, NPT and metric (I.S.O.) threads |
| IP rating | IP65 |
| Material | UV-resistant thermoplastic |
| Locknut | Zinc plated steel |
| Sealing washer | Nitril |
| Colour | Black |
| Temperature range | -45°C to +105°C |
| Flammability rating | Self-extinguishing according to UL 94 V-2 |



Approvals



LR52391



E23018

Fig. 1

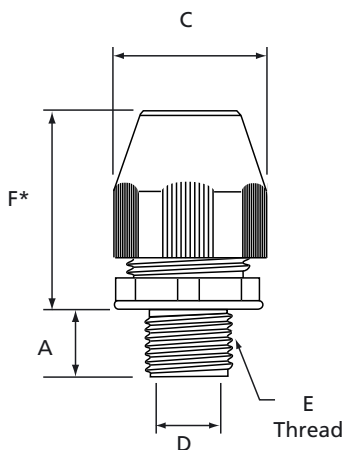


Fig. 2

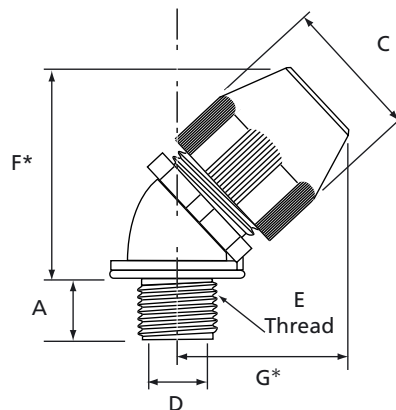
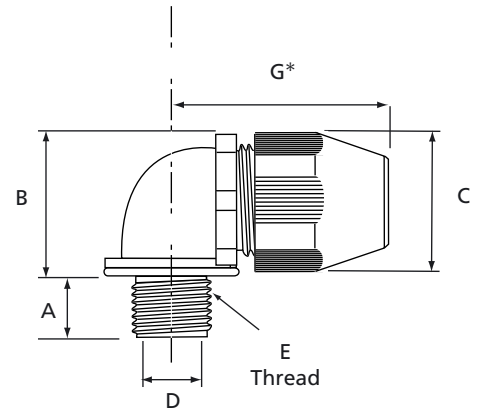


Fig. 3



* Variable dimensions

Liquidtight fittings for non-metallic
conduits

Type EFC - plastic Bullet fittings

Ordering Information

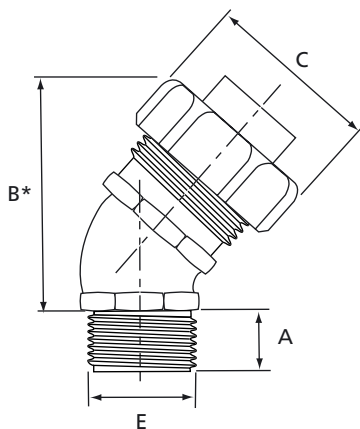
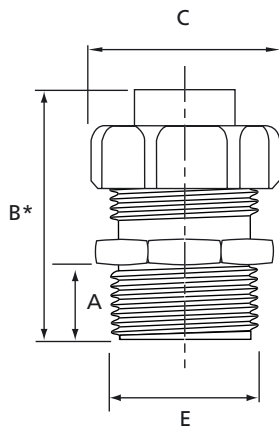
| PRODUCT REF. | THREAD | THREAD SIZE | DIMENSIONS | | | D MIN. THROAT | F* | G* | WEIGHT | QUANTITY |
|---|----------------|-------------|------------|-----------|-----------|------------------|-----------------|-----------------|--------|----------|
| | SIZE [inch] | E | A [mm] | B [mm] | C [mm] | DIAMETER [mm] | APPROX. [mm] | APPROX. [mm] | | |
| STRAIGHT FITTING WITH METRIC (I.S.O.) THREAD - FIG.1 | | | | | | | | | | |
| LT38P-ISO20 | 3/8 | M20 | 14.5 | – | 34.4 | 10.6 | 40.5 | – | 3.9 | 20 |
| LT50P-ISO20 | 1/2 | M20 | 14.5 | – | 36.8 | 14.0 | 41.6 | – | 4.1 | 20 |
| LT75P-ISO25 | 3/4 | M25 | 14.8 | – | 44.2 | 18.8 | 44.6 | – | 6.3 | 10 |
| STRAIGHT FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) - FIG.1 | | | | | | | | | | |
| LT38P | 3/8 | 1/2" | 14.5 | – | 34.4 | 10.6 | 40.5 | – | 3.9 | 20 |
| LT50P | 1/2 | 1/2" | 14.5 | – | 36.8 | 14.0 | 41.6 | – | 4.1 | 20 |
| LT75P | 3/4 | 3/4" | 14.8 | – | 44.2 | 18.8 | 44.6 | – | 6.3 | 10 |
| LT100P | 1 | 1" | 18.4 | – | 52.5 | 23.9 | 48.8 | – | 9.9 | 5 |
| LT125P | 1 1/4 | 1 1/4" | 19.1 | – | 63.4 | 31.9 | 55.0 | – | 15.2 | 5 |
| LT150P | 1 1/2 | 1 1/2" | 19.5 | – | 70.7 | 36.9 | 59.8 | – | 21.3 | 2 |
| LT200P | 2 | 2" | 20.2 | – | 85.4 | 47.8 | 66.2 | – | 34.0 | 1 |
| 90° FITTING WITH METRIC (I.S.O.) THREAD - FIG.3 | | | | | | | | | | |
| LT938P-ISO20 | 3/8 | M20 | 14.5 | 35.0 | 34.4 | 10.6 | – | 47.8 | 4.9 | 20 |
| LT950P-ISO20 | 1/2 | M20 | 14.5 | 37.8 | 36.8 | 14.0 | – | 50.4 | 4.9 | 20 |
| LT975P-ISO25 | 3/4 | M25 | 14.8 | 45.5 | 44.2 | 18.8 | – | 56.0 | 7.8 | 10 |
| 90° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) - FIG.3 | | | | | | | | | | |
| LT938P | 3/8 | 1/2" | 14.5 | 35.0 | 34.4 | 10.6 | – | 47.8 | 4.9 | 10 |
| LT950P | 1/2 | 1/2" | 14.5 | 37.8 | 36.8 | 14.0 | – | 50.4 | 4.9 | 10 |
| LT975P | 3/4 | 3/4" | 14.8 | 45.5 | 44.2 | 18.8 | – | 56.2 | 7.8 | 10 |
| LT9100P | 1 | 1" | 18.4 | 53.4 | 44.2 | 23.9 | – | 63.7 | 12.6 | 5 |
| LT9125P | 1 1/4 | 1 1/4" | 19.1 | 65.1 | 52.5 | 31.9 | – | 72.5 | 21.3 | 2 |
| LT9150P | 1 1/2 | 1 1/2" | 19.5 | 72.5 | 63.4 | 36.9 | – | 79.9 | 36.3 | 2 |
| LT9200P | 2 | 2" | 20.2 | 87.2 | 70.7 | 47.8 | – | 93.3 | 40.8 | 1 |
| 45° FITTING WITH NPT THREAD (SUPPLIED WITH LOCKNUT) - FIG.2 | | | | | | | | | | |
| LT438P | 3/8 | 1/2" | 14.5 | – | 34.4 | 10.6 | 39.0 | 35.1 | 4.8 | 20 |
| LT450P | 1/2 | 1/2" | 14.5 | – | 36.8 | 14.0 | 40.4 | 37.8 | 5.0 | 20 |
| LT475P | 3/4 | 3/4" | 14.8 | – | 44.2 | 18.8 | 46.3 | 45.5 | 7.4 | 10 |
| LT4100P | 1 | 1" | 18.4 | – | 52.5 | 23.9 | 51.7 | 53.4 | 11.7 | 5 |
| LT4125P | 1 1/4 | 1 1/4" | 19.0 | – | 43.4 | 31.9 | 60.6 | 65.1 | 20.9 | 5 |
| LT4150P | 1 1/2 | 1 1/2" | 19.5 | – | 70.7 | 36.9 | 66.1 | 72.5 | 24.7 | 2 |
| LT4200P | 2 | 2" | 20.2 | – | 85.4 | 47.8 | 77.5 | 87.2 | 38.1 | 1 |

* Dimensions F and G are after assembly (approx.)

Liquidtight fittings for non-metallic conduits

Type EFC - metallic Bullet fittings

- Metallic fitting, designed for type EFC flexible plastic conduit
- Liquid-tight, dust-tight and oil-resistant
- Robust construction, ideal for demanding applications like in the railway industry (can be used with other kind of conduits and hoses commonly used in the railway industry, such as textile inserted rubber hoses,...)
- Liquid-tight, dust-tight and oil-resistant
- Thomas & Betts patented quick connecting feature designed to prevent unlocking
- Separate rotating attachment for easy fitting of conduit
- Spiral-shaped EFC conduit coil locks into fitting
- No loose pieces - secure against vibration
- Delivered with locknut



Technical Information

| | |
|--------------|---|
| Conduit type | Shureseal™ conduit type EFC |
| Style/thread | Straight, 45°, 90°, NPT and Metric (I.S.O.) threads |
| IP rating | IP65 |
| Material | Body: zinc plated steel Gland nut: zinc steel Insert: nylon |

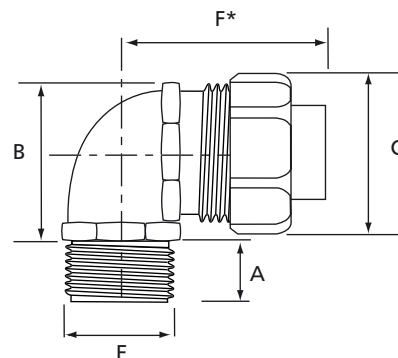
Approvals



LR52391



E23018



Liquidtight fittings for non-metallic
conduits

Type EFC - metallic Bullet fittings

Ordering Information

| PRODUCT REF. | CONDUIT SIZE [inch] | THREAD SIZE E | DIMENSIONS | | | | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|------------------------|------------------|------------|-----------|-----------|-----------|--------------------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | F [mm] | | |
| STRAIGHT FITTING WITH METRIC (I.S.O) THREAD - FIG.1 | | | | | | | | |
| LT38M-ISO20 | 3/8 | M20 | 14.3 | 38.1(*) | 29.4 | - | 5.8 | 25 |
| LT50M-ISO20 | 1/2 | M20 | 14.3 | 39.7(*) | 34.9 | - | 7.7 | 25 |
| LT75M-ISO25 | 3/4 | M25 | 15.9 | 41.2(*) | 42.1 | - | 10.9 | 25 |
| STRAIGHT FITTING WITH NPT THREAD - FIG.1 | | | | | | | | |
| LT38M | 3/8 | 3/8" | 14.3 | 38.1(*) | 29.4 | - | 5.8 | 25 |
| LT50M | 1/2 | 1/2" | 14.3 | 39.7(*) | 34.9 | - | 7.7 | 25 |
| LT75M | 3/4 | 3/4" | 15.9 | 41.2(*) | 42.1 | - | 10.9 | 25 |
| LT100M | 1 | 1" | 19.0 | 52.4(*) | 47.6 | - | 16.1 | 10 |
| LT125M | 1 1/4 | 1 1/4" | 20.6 | 63.5(*) | 60.3 | - | 28.9 | 5 |
| LT150M | 1 1/2 | 1 1/2" | 20.6 | 68.2(*) | 69.8 | - | 46.7 | 2 |
| LT200M | 2 | 2" | 20.6 | 77.8(*) | 88.1 | - | 69.9 | 1 |
| 90° FITTING WITH METRIC (I.S.O) THREAD - FIG.3 | | | | | | | | |
| LT938M-ISO20 | 3/8 | M20 | 15.9 | 33.3 | 29.4 | 34.9(*) | 9.4 | 25 |
| LT950M-ISO20 | 1/2 | M20 | 15.9 | 36.5 | 34.9 | 39.7(*) | 13.2 | 25 |
| LT975M-ISO25 | 3/4 | M25 | 15.9 | 44.4 | 42.1 | 44.4(*) | 18.1 | 25 |
| 90° FITTING WITH NPT THREAD - FIG.3 | | | | | | | | |
| LT938M | 3/8 | 3/8" | 15.9 | 33.3 | 29.4 | 34.9(*) | 9.4 | 25 |
| LT950M | 1/2 | 1/2" | 15.9 | 36.5 | 34.9 | 39.7(*) | 13.2 | 25 |
| LT975M | 3/4 | 3/4" | 15.9 | 44.4 | 42.1 | 44.4(*) | 18.1 | 25 |
| LT9100M | 1 | 1" | 20.6 | 49.2 | 47.6 | 55.5(*) | 30.2 | 10 |
| LT9125M | 1 1/4 | 1 1/4" | 20.6 | 63.5 | 60.3 | 69.8(*) | 55.7 | 5 |
| LT9150M | 1 1/2 | 1 1/2" | 20.6 | 71.4 | 69.8 | 74.6(*) | 76.4 | 2 |
| LT9200M | 2 | 2" | 22.2 | 88.9 | 88.1 | 87.3(*) | 116.6 | 1 |
| 45° FITTING WITH METRIC (I.S.O) THREAD - FIG.2 | | | | | | | | |
| LT438M-ISO20 | 3/8 | M20 | 14.3 | 49.8(*) | 29.4 | - | 7.7 | 25 |
| LT450M-ISO20 | 1/2 | M20 | 14.3 | 47.6(*) | 34.9 | - | 14.2 | 25 |
| 45° FITTING WITH NPT THREAD - FIG.2 | | | | | | | | |
| LT438M | 3/8 | 3/8" | 14.3 | 49.8(*) | 29.4 | - | 7.7 | 25 |
| LT450M | 1/2 | 1/2" | 14.3 | 47.6(*) | 34.9 | - | 14.2 | 25 |
| LT475M | 3/4 | 3/4" | 14.3 | 54.0(*) | 42.1 | - | 18.6 | 10 |
| LT4100M | 1 | 1" | 20.6 | 57.1(*) | 47.6 | - | 25.5 | 5 |
| LT4125M | 1 1/4 | 1 1/4" | 20.6 | 69.8(*) | 60.3 | - | 49.6 | 5 |
| LT4150M | 1 1/2 | 1 1/2" | 20.6 | 69.8(*) | 69.8 | - | 68.0 | 2 |
| LT4200M | 2 | 2" | 22.2 | 98.4(*) | 88.1 | - | 99.8 | 1 |

Note: dimensions shown with a (*) are after assembly (approx.)

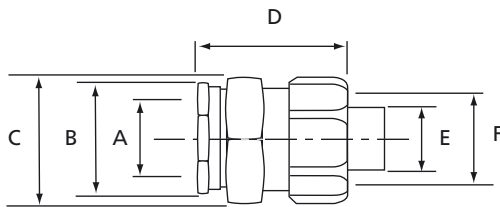
Liquidtight fittings for non-metallic conduits

Type EFC - metallic Bullet, Chase version

- Metallic fitting, designed for type EFC flexible plastic conduit Special version (Chase) for space saving assembly, thanks to the male nipple that can be screwed into the female thread of the body
- Liquid-tight, dust-tight and oil-resistant
- Robust construction, ideal for demanding applications like in the railway industry (can be used with other kind of conduits and hoses commonly used in the railway industry, such as textile inserted rubber hoses,...)
- Spiral-shaped EFC conduit coil locks into fitting
- The fitting is composed of 5 components: nipple with insulation throat, o-ring, body, insert and gland nut (Product Ref. LT6275MI also includes an additional sleeve)

Technical Information

| | |
|--------------|--|
| Conduit type | Shureseal™ conduit type EFC |
| Style/thread | Straight |
| IP rating | IP65 |
| Material | Body: zinc plated steel Gland nut: zinc plated steel Insert: nylon O-ring: neoprene |



Ordering Information

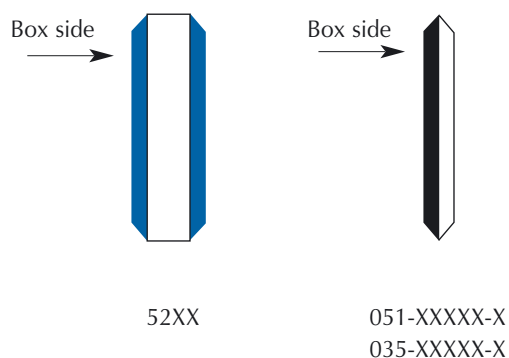
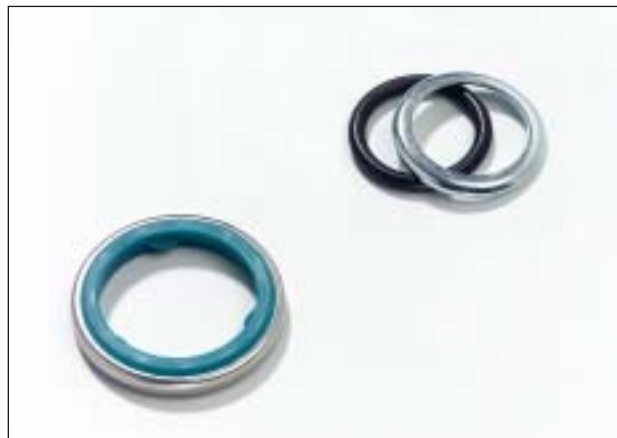
| PRODUCT REF. | FOR CONDUIT SIZE [inch] | DIMENSIONS | | | | | |
|--------------|-------------------------------|------------|----------------------|----------------------|-----------------|------|------|
| | | ø A* | B | C | D | ø E* | ø F* |
| | | [mm] | ACROSS FLATS [mm] | ACROSS FLATS [mm] | APPROX. [mm] | [mm] | [mm] |
| LT638MI | 3/8 | 14.5 | 24 | 30 | 30 | 12.4 | 18.4 |
| LT650MI | 1/2 | 14.5 | 24 | 30 | 30 | 15.4 | 22.0 |
| LT675MI | 3/4 | 18.0 | 32 | 36 | 36 | 20.0 | 29.0 |
| LT6100MI | 1 | 23.5 | 40 | 41 | 41 | 26.0 | 35.0 |
| LT6125MI | 1 1/4 | 31.0 | 45 | 60 | 60 | 34.0 | 44.5 |
| LT6150MI | 1 1/2 | 38.0 | 54 | 65 | 65 | 39.0 | 50.0 |
| LT6275MI | – | 60.0 | 78 | 93 | 125 | 65.0 | 70.0 |

* ø A = inner diameter in fitting
ø E = min. inner diameter of conduit
ø F = max. outer diameter of conduit

Shureseal™

Accessories for fittings Sealing washers

- Design locks resilient sealing material in steel
- Steel retainer protects seal from extruding out under torque and limits compression to an optimum predetermined value; provides high quality seal
- Resilient material flows and seals rough surfaces



Technical Information

| | |
|--------------|---|
| Fitting Type | Shureseal™ and Shureflex™ fittings |
| Style/thread | NPT, Metric (I.S.O.) and Imperial Threads |
| Material | Chromated galvanised steel, with blue Buna-N rubber or black synthetic rubber |
| Colour | Metallic |

Approvals



002884



E13938

Ordering Information

| PRODUCT REF. | THREAD SIZE | WEIGHT [kg/100] | QUANTITY [pieces] |
|---|-------------|--------------------|----------------------|
| SEALING WASHERS FOR METRIC (I.S.O.) FITTINGS | | | |
| 051-72123-1* | M16 | 0.2 | 100 |
| 035-72272-1* | M20 | 0.2 | 100 |
| 035-72272-2* | M25 | 0.3 | 100 |
| 035-72272-3* | M32 | 0.3 | 100 |
| SEALING WASHERS FOR NPT FITTINGS | | | |
| 5261* | 3/8" | 0.2 | 50 |
| 5262 | 1/2" | 0.2 | 50 |
| 5263 | 3/4" | 0.3 | 25 |
| 5264 | 1" | 0.3 | 25 |
| 5265 | 1 1/4" | 1.8 | 5 |
| 5266 | 1 1/2" | 1.9 | 5 |
| 5267 | 2" | 2.0 | 5 |
| 5268 | 2 1/2" | 2.2 | 5 |
| 5269 | 3" | 2.9 | 5 |
| 5270 | 4" | 3.8 | 5 |
| SEALING WASHERS FOR IMPERIAL FITTINGS | | | |
| 035 - 72272 - 4 | 1 1/2" | 1.8 | 100 |
| 051 - 72123 - 6 | 2" | 1.9 | 50 |

* The Product Ref. with a * are not UL approved

Shureseal™

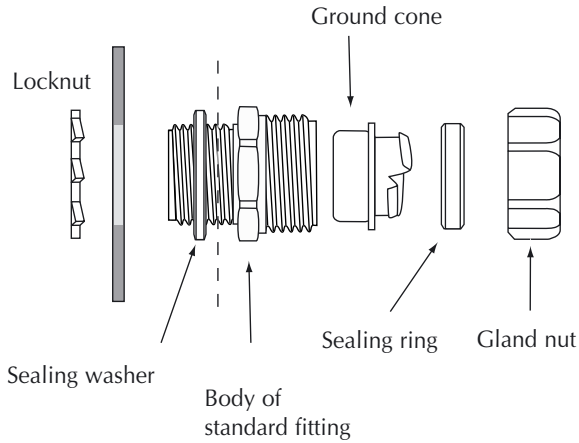
Accessories for fittings

Locknuts

Case-Hardened Locknut with Teeth provides superior strength and electrical bonding and can be installed without a wrench in the enclosure.



4.2



Technical Information

| | |
|--------------|-----------------------------|
| Fitting Type | Shureseal™ fittings |
| Thread | NPT |
| Material | Galvanised steel, chromated |
| Colour | Metallic |

Approvals



004484



E23018

Ordering Information

| PRODUCT REF. | NPT THREAD SIZE [inch] | WEIGHT [g/100] | QUANTITY [pieces] |
|--------------------|---------------------------|-------------------|----------------------|
| NPT LOCKNUT | | | |
| 139 | 1/4 | 0.4 | 100 |
| 140 | 3/8 | 0.5 | 100 |
| 141 | 1/2 | 0.5 | 100 |
| 142-TB | 3/4 | 0.9 | 100 |
| 143 | 1 | 1.8 | 50 |
| 144 | 1 1/4 | 3.2 | 50 |
| 145 | 1 1/2 | 4.0 | 50 |
| 146-TB | 2 | 6.3 | 25 |
| 147 | 2 1/2 | 11.7 | 15 |
| 148 | 3 | 18.0 | 5 |
| 149 | 3 1/2 | 19.8 | 5 |
| 150 | 4 | 23.4 | 5 |

Strain Relief Wire Mesh adaptor with integrated gland nut:

- Simple installation: just replace the existing gland nut in the fitting with the wire mesh adaptor
- Provides a support function (strain relief), to protect the conduit at the point of connection
- Rounded corners ensure secure attachment of the conduit without the risk of damage
- Anti-corrosive



Approvals



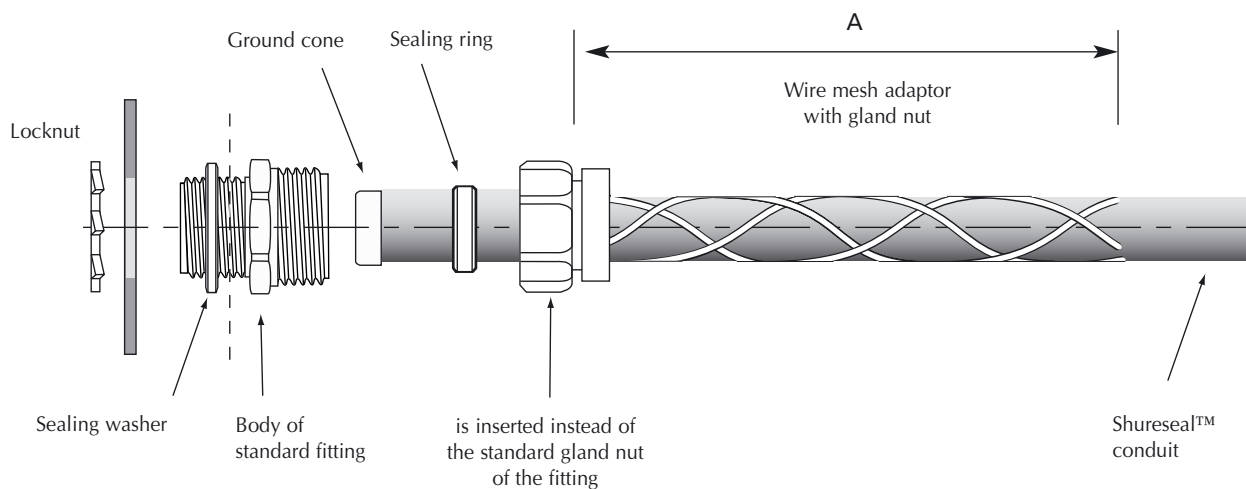
002884
4484



E13938
E23018

Technical Information

| | |
|--------------|---|
| Fitting Type | Shureseal™ liquidtight fittings for metallic conduits (straight, 45°, 90°, chase, female hub) |
| Thread | Replaces the standard gland nut |
| Material | Gland nut: zinc plated steel Collar: aluminium Wire mesh: aluminium |
| Colour | Metallic |



Ordering Information

| PRODUCT REF. | CONDUIT SIZE [inch] | STRAIGHT FITTING [prod. ref.] | 45° FITTING [prod. ref.] | 90° FITTING [prod. ref.] | CHASE FITTING [prod. ref.] | CHASE 90 ° FITTING [prod. ref.] | ADAPTER [prod. ref.] | WEIGHT [kg/100] | QUANTITY [pieces] |
|--|------------------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------|------------------------------------|-------------------------|--------------------|----------------------|
| FOR FITTINGS WITH ISO THREAD | | | | | | | | | |
| WMG-LT1 | 3/8 | 9360, 9361 | 9340, 9341 | 9350, 9351 | – | – | 9270, 9271 | 2.5 | 10 |
| WMG-LT2 | 1/2 | 9362 | 9342 | 9352-TB | – | – | 9272 | 4.0 | 10 |
| WMG-LT3 | 3/4 | 9363 | 9343-TB | 9353-TB | – | – | 9273 | 5.0 | 10 |
| WMG-LT4 | 1 | 9364 | 9344 | 9354-TB | – | – | 9274 | 10.0 | 10 |
| FOR FITTINGS WITH PG THREAD | | | | | | | | | |
| WMG-LT1 | 3/8 | 7361, 7362 | 7341, 7342 | 7351, 7352 | – | – | – | 2.5 | 10 |
| WMG-LT2 | 1/2 | 7363 | 7343 | 7353 | – | – | – | 4.0 | 10 |
| WMG-LT3 | 3/4 | 7364 | 7344-TB | 7354 | – | – | – | 5.0 | 10 |
| WMG-LT4 | 1 | 7365 | 7345 | 7355 | – | – | – | 10.0 | 10 |
| WMG-LT5 | 1 1/4 | 7366 | 7346 | 7356 | – | – | – | 17.0 | 2 |
| WMG-LT6 | 1 1/2 | 7367 | 7347 | 7357 | – | – | – | 29.0 | 2 |
| WMG-LT7 | 2 | 7368 | 7348-TB | 7358 | – | – | – | 43.0 | 5 |
| FOR FITTINGS WITH NPT THREAD | | | | | | | | | |
| WMG-LT1 | 3/8 | 5331 | 5341 | 5351 | 5361 | 5371 | 5271 | 2.5 | 10 |
| WMG-LT2 | 1/2 | 5332 | 5342 | 5352 | 5362 | 5372 | 5272 | 4.0 | 10 |
| WMG-LT3 | 3/4 | 5333 | 5343 | 5353 | 5363 | 5373 | 5273 | 5.0 | 10 |
| WMG-LT4 | 1 | 5334-TB | 5344 | 5354 | 5364 | 5374 | 5274 | 10.0 | 10 |
| WMG-LT5 | 1 1/4 | 5335 | 5345 | 5355 | 5365 | – | 5275 | 17.0 | 2 |
| WMG-LT6 | 1 1/2 | 5336 | 5346 | 5356 | 5366 | – | 5276 | 29.0 | 2 |
| WMG-LT7 | 2 | 5337 | 5347 | 5357 | 5367 | – | 5277 | 43.0 | 5 |
| FOR FITTINGS WITH IMPERIAL THREAD | | | | | | | | | |
| WMG-LT5 | 1 1/4 | 6365 | – | 6355 | – | – | – | 17.0 | 2 |
| WMG-LT6 | 1 1/2 | 6366 | 6346 | 6356 | – | – | – | 29.0 | 2 |
| WMG-LT7 | 2 | 6367 | 6347 | – | – | – | – | 43.0 | 5 |

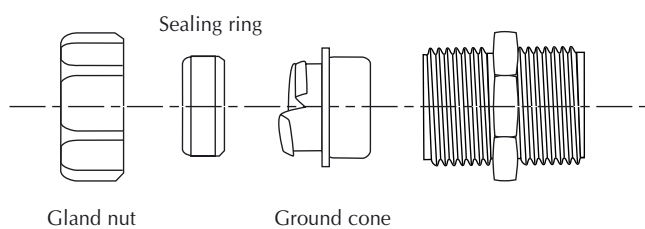
Replacements parts for liquidtight metallic fittings

If after some time the fitting is released and needs to be re-secured, the seal and the ground cone should be replaced.

The following accessories are appropriate for all the standard liquidtight Shureseal™ fittings for metallic conduits:

- **Steel ground cone:** it provides a high quality ground contact with low impedance and high conduit pull-off resistance. The single helical thread on ground cone is easy to install by hand without cross threading. It tolerates variations in conduit diameters and convolution pitch. Its rolled-over edge protects the conductors. Manufactured in zinc plated steel.
- **Sealing ring:** it grips and seals the conduit without damaging the conduit jacket. Its symmetrical shape assures a foolproof assembly. It ensures a positive seal against oils, liquids, moisture and dust. Made from high-performance nylon. Colour: blue.
- **Gland nut:** rugged construction, made of zinc plated steel. Reinforced corners to allow hand screwing.

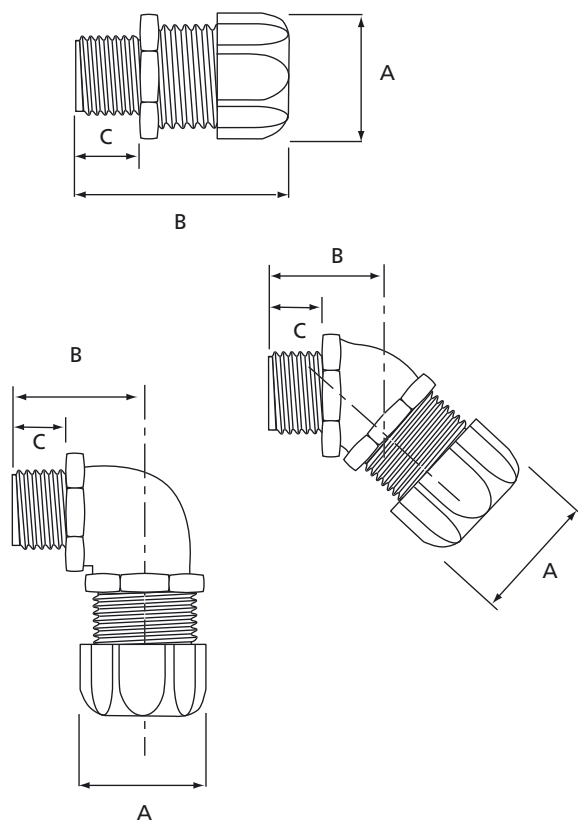
Fitting replacement parts



Ordering Information

| PRODUCT REF. | CONDUIT SIZE [inch] |
|---------------------|------------------------|
| GROUND CONE | |
| R 719124 | 1/4 |
| IR 719123 | 5/16 |
| R 719101 | 3/8 |
| R 719125 | 1/2 |
| R 719126 | 3/4 |
| R 719127 | 1 |
| IR 719128 | 1 1/4 |
| IR 719129 | 1 1/2 |
| SEALING RING | |
| 7 R68301 | 5/16 |
| IR 763101 | 3/8 |
| IR 763102 | 1/2 |
| IR 763108 | 3/4 |
| IR 763104 | 1 |
| IR 763105 | 1 1/4 |
| IR 763106 | 1 1/2 |
| GLANDNUT | |
| 7 R68201 | 5/16 |
| R 735540 | 3/8 |
| R 735503 | 1/2 |
| R 735504 | 3/4 |
| R 735522 | 1 |
| IR 735509 | 1 1/4 |
| IR 723418 | 1 1/2 |

- High performance metal cable fittings
- Special construction prevents twisting and ensures effective strain relief
- Easy to install
- For cables with outer diameters from 3.2 mm to 47.6 mm



Technical Information

| | |
|----------------------|--|
| Style/thread | Straight, 45° and 90° NPT and metric (I.S.O.) threads |
| System IP rating | IP65 |
| Body (material) | Zinc or galvanized steel |
| Gland nut (material) | Steel or galvanised steel |
| Seal (material) | Neoprene or rubber |
| Colour | Metallic |
| Temperature range | -35°C to +105°C |

Approvals



052391
00589
004484



E-13938

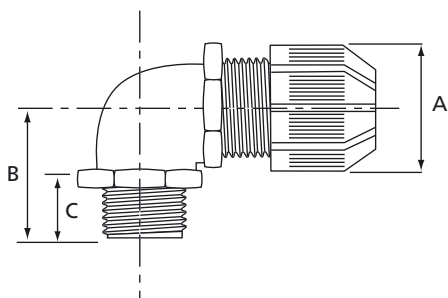
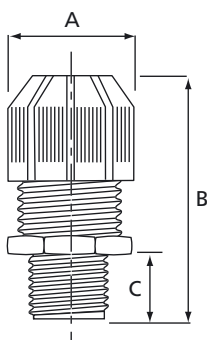
Ordering Information

| PRODUCT REF. | MATERIAL BODY | MATERIAL SEAL | MATERIAL NUT | CABLE Ø RANGE FROM...TO [mm] | THREAD SIZE | DIMENSIONS | | | QUANTITY [pieces] |
|--|-------------------|------------------|-------------------|------------------------------------|----------------|------------|-----------|-----------|----------------------|
| | | | | | | A [mm] | B [mm] | C [mm] | |
| STRAIGHT METALLIC CABLE GLAND WITH METRIC (I.S.O.) THREAD | | | | | | | | | |
| 9520 | zinc plated steel | Neoprene | zinc plated steel | 3.2 - 6.3 | M20 | 28.6 | 42.0 | 14.3 | 25 |
| 9521-EU | zinc plated steel | Neoprene | zinc plated steel | 6.3 - 9.5 | M20 | 28.6 | 42.0 | 14.3 | 25 |
| 9522-EU | zinc plated steel | Neoprene | zinc plated steel | 9.5 - 12.7 | M20 | 28.6 | 42.0 | 14.3 | 25 |
| 9523 | zinc plated steel | Neoprene | zinc plated steel | 11.4 - 14.2 | M20 | 28.6 | 42.0 | 14.3 | 25 |
| 9524-EU | zinc plated steel | Neoprene | zinc plated steel | 12.7 - 15.8 | M20 | 34.9 | 44.5 | 15.0 | 25 |
| 90° METALLIC CABLE GLAND WITH NPT THREAD | | | | | | | | | |
| 4960 | zinc plated steel | rubber | steel | 3.2 - 9.5 | 1/2" | 28.6 | 44.5 | 15.9 | 25 |
| 4961 | zinc plated steel | rubber | steel | 7.9 - 14.2 | 1/2" | 28.6 | 44.5 | 15.9 | 25 |
| 4970 | zinc plated steel | rubber | steel | 3.2 - 9.5 | 3/4" | 34.9 | 45.2 | 17.5 | 10 |
| 4971 | zinc plated steel | rubber | steel | 7.9 - 14.2 | 3/4" | 34.9 | 45.2 | 17.5 | 10 |
| 4972 | zinc plated steel | rubber | steel | 12.7 - 19.0 | 3/4" | 34.9 | 45.2 | 17.5 | 10 |

Ordering Information

| PRODUCT REF. | MATERIAL | MATERIAL | MATERIAL | CABLE Ø RANGE | THREAD | DIMENSIONS | | | QUANTITY |
|--|----------------------------|----------|-------------------|---------------|--------|------------|------|------|----------|
| | BODY | SEAL | NUT | | | FROM...TO | A | B | |
| | | | | [mm] | SIZE | [mm] | [mm] | [mm] | [pieces] |
| | | | | | [inch] | | | | |
| STRAIGHT METALLIC CABLE GLAND WITH NPT THREAD | | | | | | | | | |
| 2920 | zinc | rubber | zinc plated steel | 3.2 - 9.5 | 1/2 | 28.6 | 44.5 | 15.9 | 25 |
| 2921 | zinc | rubber | zinc plated steel | 7.9 - 14.2 | 1/2 | 28.6 | 44.5 | 15.9 | 25 |
| 2922 | zinc | rubber | zinc plated steel | 12.7 - 19.1 | 1/2 | 34.9 | 44.5 | 15.9 | 10 |
| 2930 | zinc | rubber | zinc plated steel | 3.2 - 9.5 | 3/4 | 34.9 | 45.2 | 19.1 | 10 |
| 2931 | zinc | rubber | zinc plated steel | 7.9 - 14.2 | 3/4 | 34.9 | 45.2 | 19.1 | 10 |
| 2932 | zinc | rubber | zinc plated steel | 12.7 - 19.1 | 3/4 | 34.9 | 45.2 | 19.1 | 10 |
| 2940 | zinc | rubber | zinc plated steel | 7.9 - 14.2 | 1 | 34.9 | 44.5 | 20.6 | 10 |
| 2941 | zinc | rubber | zinc plated steel | 12.7 - 19.1 | 1 | 34.9 | 44.5 | 20.6 | 10 |
| 2942 | zinc | rubber | zinc plated steel | 17.8 - 24.1 | 1 | 41.3 | 47.6 | 20.6 | 10 |
| 2520 | zinc | Neoprene | steel | 3.2 - 6.4 | 1/2 | 29.4 | 42.9 | 15.9 | 25 |
| 2521 | zinc | Neoprene | steel | 6.4 - 9.5 | 1/2 | 29.4 | 42.9 | 15.9 | 25 |
| 2522 | zinc | Neoprene | steel | 9.5 - 12.7 | 1/2 | 29.4 | 42.9 | 15.9 | 25 |
| 2523 | zinc | Neoprene | steel | 11.4 - 14.2 | 1/2 | 29.4 | 42.9 | 15.9 | 25 |
| 2524 | zinc | Neoprene | steel | 12.7 - 15.9 | 1/2 | 34.9 | 44.5 | 15.9 | 25 |
| 2525 | zinc | Neoprene | steel | 15.9 - 19.1 | 1/2 | 34.9 | 44.5 | 15.9 | 25 |
| 2558 | zinc | Neoprene | steel | 22.4 - 27.1 | 1 1/4 | 53.2 | 54.8 | 20.6 | 5 |
| 2559 | zinc | Neoprene | steel | 27.1 - 30.6 | 1 1/4 | 53.2 | 54.8 | 20.6 | 5 |
| 2562 | zinc | Neoprene | steel | 20.6 - 25.4 | 1 1/2 | 58.7 | 63.5 | 17.5 | 5 |
| 2563 | zinc | Neoprene | steel | 25.4 - 30.1 | 1 1/2 | 58.7 | 63.5 | 17.5 | 5 |
| 2574 | zinc | Neoprene | steel | 34.9 - 41.3 | 2 | 69.9 | 66.7 | 20.6 | 1 |
| 2575 | zinc | Neoprene | steel | 41.3 - 47.6 | 2 | 69.9 | 66.7 | 20.6 | 1 |
| 45° METALLIC CABLE GLAND WITH NPT THREAD | | | | | | | | | |
| 2200 | zinc plated malleable iron | Neoprene | zinc plated steel | 3.2 - 6.3 | 1/2 | 28.6 | 7.1 | 14.3 | 25 |
| 2201 | zinc plated malleable iron | Neoprene | zinc plated steel | 6.3 - 9.5 | 1/2 | 28.6 | 7.1 | 14.3 | 25 |
| 2202 | zinc plated malleable iron | Neoprene | zinc plated steel | 9.5 - 12.7 | 1/2 | 28.6 | 7.1 | 14.3 | 25 |
| 2203 | zinc plated malleable iron | Neoprene | zinc plated steel | 11.4 - 14.2 | 1/2 | 28.6 | 7.1 | 14.3 | 25 |
| 2204 | zinc plated malleable iron | Neoprene | zinc plated steel | 12.7 - 15.9 | 1/2 | 34.9 | 10.3 | 14.3 | 10 |
| 2205 | zinc plated malleable iron | Neoprene | zinc plated steel | 15.9 - 19.1 | 1/2 | 34.9 | 35.7 | 14.3 | 10 |
| 2206-TB | zinc plated malleable iron | Neoprene | zinc plated steel | 3.2 - 6.3 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2207-TB | zinc plated malleable iron | Neoprene | zinc plated steel | 6.3 - 9.5 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2208-TB | zinc plated malleable iron | Neoprene | zinc plated steel | 9.5 - 12.7 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2209 | zinc plated malleable iron | Neoprene | zinc plated steel | 12.7 - 15.9 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2210 | zinc plated malleable iron | Neoprene | zinc plated steel | 15.9 - 19.1 | 3/4 | 34.9 | 35.7 | 15.9 | 10 |
| 2211 | zinc plated malleable iron | Neoprene | zinc plated steel | 19.1 - 22.2 | 3/4 | 42.9 | 38.1 | 38.1 | 10 |
| 2213 | zinc plated malleable iron | Neoprene | zinc plated steel | 9.5 - 12.7 | 1 | 34.9 | 38.1 | 19.8 | 5 |
| 2214 | zinc plated malleable iron | Neoprene | zinc plated steel | 12.7 - 15.9 | 1 | 34.9 | 38.1 | 19.8 | 5 |
| 2215 | zinc plated malleable iron | Neoprene | zinc plated steel | 15.9 - 19.1 | 1 | 34.9 | 38.1 | 19.8 | 5 |
| 2216 | zinc plated malleable iron | Neoprene | zinc plated steel | 19.1 - 22.2 | 1 | 42.9 | 37.3 | 19.8 | 5 |
| 2217 | zinc plated malleable iron | Neoprene | zinc plated steel | 22.2 - 25.0 | 1 | 42.9 | 37.3 | 19.8 | 5 |
| 2218 | zinc plated malleable iron | Neoprene | zinc plated steel | 22.3 - 27.0 | 1 | 52.4 | 50.0 | 19.8 | 5 |
| 2219 | zinc plated malleable iron | Neoprene | zinc plated steel | 27.0 - 30.1 | 1 | 52.4 | 50.0 | 19.8 | 5 |
| 2220-TB | zinc plated malleable iron | Neoprene | zinc plated steel | 22.3 - 27.0 | 1 1/4 | 52.4 | 48.4 | 20.6 | 2 |
| 2221 | zinc plated malleable iron | Neoprene | zinc plated steel | 27.0 - 30.1 | 1 1/4 | 52.4 | 48.4 | 20.6 | 2 |
| 2222 | zinc plated malleable iron | Neoprene | zinc plated steel | 30.1 - 34.9 | 1 1/4 | 52.4 | 57.2 | 20.6 | 2 |
| 2223 | zinc plated malleable iron | Neoprene | zinc plated steel | 34.9 - 37.7 | 1 1/4 | 52.4 | 57.2 | 20.6 | 2 |

- High performance plastic cable fittings
- Special construction prevents twisting and ensures effective strain relief
- Easy to install
- For all cable sizes between 3.2 and 24.1 mm of outer diameter



Technical Information

| | |
|---------------------|---------------------------------|
| Style/thread | Straight and 90° NPT threads |
| IP rating | IP65 |
| Material | UV resistant polyamide 6.6. |
| Steel locknut | Chromate finished steel or zinc |
| Seal | Neoprene |
| Colour | Black |
| Flammability rating | UL 94 V-2 |
| Temperature range | -34°C to +105°C |

Approvals



052391



E-13938

Ordering Information

| PRODUCT REF. | CABLE DIAMETER RANGE FROM...TO [mm] | THREAD SIZE [inch] | DIMENSIONS | | | QUANTITY [pieces] |
|---|---|--------------------------|------------|-----------|-----------|----------------------|
| | | | A [mm] | B [mm] | C [mm] | |
| STRAIGHT PLASTIC CABLE GLAND WITH NPT THREAD | | | | | | |
| 2920NM | 3.2 - 9.5 | 1/2 | 26.2 | 54.0 | 15.9 | 25 |
| 2921NM | 7.9 - 14.2 | 1/2 | 26.2 | 54.0 | 15.9 | 25 |
| 2922NM | 12.7 - 19.0 | 1/2 | 35.7 | 54.0 | 15.9 | 25 |
| 2930NM | 3.2 - 9.5 | 3/4 | 35.7 | 55.6 | 15.9 | 10 |
| 2931NM | 7.9 - 14.2 | 3/4 | 35.7 | 55.6 | 15.9 | 10 |
| 2932NM | 12.7 - 14.2 | 3/4 | 35.7 | 55.6 | 15.9 | 10 |
| 2940NM | 7.9 - 14.2 | 1 | 35.7 | 59.5 | 19.8 | 10 |
| 2941NM | 12.7 - 19.0 | 1 | 35.7 | 59.5 | 19.8 | 10 |
| 2942NM | 17.8 - 24.1 | 1 | 42.5 | 60.3 | 19.8 | 10 |
| 90° PLASTIC CABLE GLAND WITH NPT THREAD | | | | | | |
| 4960NM | 3.2 - 9.5 | 1/2 | 30.9 | 31.8 | 15.9 | 25 |
| 4961NM | 7.9 - 14.2 | 1/2 | 30.9 | 31.8 | 15.9 | 25 |
| 4970NM | 3.2 - 9.5 | 3/4 | 35.7 | 34.9 | 15.9 | 10 |
| 4971NM | 7.9 - 14.2 | 3/4 | 35.7 | 34.9 | 15.9 | 10 |
| 4972NM | 12.7 - 19.0 | 3/4 | 35.7 | 34.9 | 15.9 | 10 |

Shureseal™

Cable grommets with strain relief

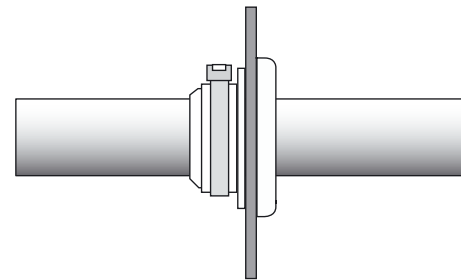
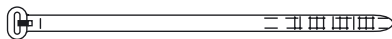
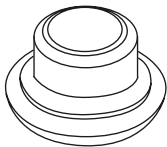
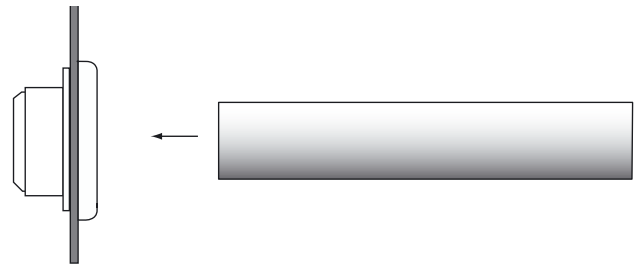
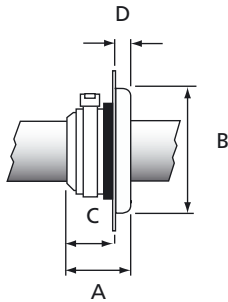
- Supplied with one Ty-Rap® cable tie to ensure a stable, tight and sealed strain relief
- Material with high elasticity
- Can also be used for single cables
- Chemically resistant
- Weather and UV resistant
- Simple and quick installation
- 5 sizes for cable diameters from 4 mm to 32 mm
- Maximal wall thickness 2.2 mm
- Typical applications: In control cabinets, in the building of motor vehicles, in the construction of machines,...



4.3

Technical Information

| | |
|---------------------|----------------|
| Material, gland | Neoprene |
| Material, cable tie | Polyamide 6.6 |
| Colour | Black |
| Temperature range | -30°C to +90°C |
| Flammability | UL 514 |



Ordering Information

| PRODUCT REF. | MATERIAL | DIMENSIONS | | | | CABLE Ø RANGE FROM ... TO | FIXING HOLE DIAMETER | WALL THICKNESS UP TO | CABLE TIE REFERENCE | WEIGHT [g/100] | QUANTITY [pieces] |
|--------------|----------|------------|-----------|-----------|-----------|------------------------------|-------------------------|-------------------------|------------------------|-------------------|----------------------|
| | | A [mm] | B [mm] | C [mm] | D [mm] | | | | | | |
| 7401 | Neoprene | 18.6 | 24 | 13.6 | 5.0 | 4.0 - 9.0 | 16 | 2.2 | TY 24 MX | 420 | 10 |
| 7402 | Neoprene | 18.7 | 28 | 13.7 | 5.0 | 7.0 - 12.0 | 19 | 2.2 | TY 25 MX | 690 | 10 |
| 7403 | Neoprene | 22.0 | 34 | 17.0 | 5.0 | 12.0 - 18.0 | 25 | 2.2 | TY 25 MX | 1100 | 10 |
| 7404 | Neoprene | 24.0 | 43 | 19.0 | 5.0 | 18.0 - 25.0 | 32 | 2.2 | TY 25 MX | 1500 | 5 |
| 7405 | Neoprene | 24.5 | 51 | 18.5 | 6.0 | 25.0 - 32.0 | 38 | 2.2 | TY 25 MX | 1950 | 5 |