T&B® Fittings - Industrial fittings
T&B Fittings - Industrial fittings
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General information

Since the turn of the century, T&B Fittings brand has been a recognized leader in electrical fittings. Industry standards such as Chase® nipples and Erickson® couplings were introduced by T&B and are still registered trademarks. This leadership continues. Here’s why.

Innovative designs
The real test of product design of electrical fittings lies in two areas: job-suited installation and life-of-the-job reliability. ABB provides both because we listen. We listen to problems and suggestions from the field. Most of the products in this section result from the good suggestions of knowledgeable electrical people. Many were custom designed to solve a customer’s particular installation and performance problems. You can benefit from their experience.

Approvals and certifications
Electrical raceways require accessory fittings that provide the mechanical strength, ground continuity and environmental integrity of the system. As new raceways have been introduced, ABB engineers have designed fittings that meet the requirements of the Canadian Electrical Code, as well as the Canadian Standards Association. You can use T&B fittings with confidence.

Note: All dimensions in this catalogue are approximate.

High performance products
Quality and performance result when engineering design skills are combined with the manufacturing technologies required to produce them. The T&B fittings in this section are produced from many materials and by many manufacturing methods, each carefully selected for its end use suitability. This combination gives you the reliable performance you expect from T&B fittings.

Lower installed cost
Lower installed cost is a function of purchase cost, availability, installation advantage and performance; it comes in every carton of T&B fittings.
Rigid metal conduit fittings
Specifications – Rigid metal conduit / PVC-coated rigid metal conduit

Ref. CEC Rule 12-1000
Rigid metal conduit affords maximum mechanical protection to conductors within the raceway. Rigid metal conduit can be installed indoors and outdoors, in dry locations or wet locations, exposed or concealed, in all atmospheric conditions and in hazardous locations.

Galvanized rigid steel conduit installed in concrete does not require supplementary corrosion protection. Galvanized rigid steel conduit installed in contact with soil does not generally require supplementary corrosion protection. However, when buried in corrosive soil (corrosive soil is characterized by low resistivity of less than 2,000 ohm-centimeter) or cinders, a protective coating of bitumastic, asphalt-based paint or a PVC coating is applied to the conduit. CEC Rule 12-934 requires that rigid steel conduit installed in or under permanently moist cinder fill be encased in at least two inches of cinder-free concrete unless the conduit is at least 18 inches below the fill. Steel conduit protected from corrosion solely by enamel can only be used indoors and in occupancies not subjected to severe corrosive influences.

Rigid nonferrous metal conduit (aluminum) cannot be directly embedded in concrete containing soluble chlorides such as calcium chloride; unwashed beach sand, seawater or coral-bearing aggregates. However, if adequately treated by a protective coating of bitumastic or asphalt-based paint or PVC coating, the conduit can be installed in concrete containing chlorides.

Supplementary nonmetallic coatings presently used on ferrous rigid metal or nonferrous metal have not been investigated for resistance to corrosion.

CEC Rule 12-920 requires that when conduit enters a box or fitting, a bushing must be provided to protect wires from abrasion unless the design of the box or fitting provides equivalent protection.

According to CEC Rule 12-906, where No. 8 or larger ungrounded conductors enter or leave a conduit, an insulating bushing with a smooth, well-rounded insulating surface must be provided to protect conductors unless the terminating fitting is equipped with an insulated throat, firmly secured in place providing equivalent protection. The insulating bushing or insulating material must have a temperature rating of not less than the insulation temperature rating of installed conductors. When conduit bushings are constructed wholly of insulating material, a locknut must be installed both inside and outside of the enclosure to which the conduit is attached.

Fittings and couplings are required to be of concrete-tight type when embedded in masonry or concrete or in dry locations and of the raintight type when installed in wet locations.

In wet locations or locations where walls are frequently washed or where there are surfaces of absorbent materials, the entire wiring system including boxes, fittings, conduit and cables must be supported such that there is at least ¼ inch air space between it and the supporting surface (CEC Rule 2-122).

CEC Rule 12-3022 requires that the raceways be metallically joined together into a continuous electric conductor and must be mechanically connected to all boxes, fittings and cabinets as to provide effective electrical continuity.

Conduit is required to be supported adequately and conduit bends in one run are restricted to the equivalent of four quarters, i.e. 360 degrees, total.
Rigid metal conduit fittings
Specifications – Rigid metal conduit / PVC coated rigid metal conduit

For further details and complete information, please refer to the following:
1. ANSI C80.1 – Rigid steel conduit zinc coated, specifications for
2. ANSI C80.2 – Rigid steel conduit, enameled, specifications for
3. ANSI C80.5 – Rigid aluminum conduit. Specifications for
4. ANSI C80.4 – Fittings for rigid metal conduit and electrical metallic tubing, specifications for
5. WW-C-581 – Federal Specification, conduit, metal, rigid & coupling, elbow, and nipple, electrical conduit, zinc coated
7. WW-C-571 – Federal Specification, conduit, metal, rigid, and coupling, elbow, and nipple, electrical conduit enameled
8. UL 6 – Standards for safety. Rigid metal conduit
9. UL 2142 – Standards for safety. Intermediate metal conduit
10. CEC section 12-1000 – Rigid and flexible conduit
11. CSA C22.2 NO. 45 – Safety standards for rigid metal conduit
12. CSA C22.2 NO. 18 – Safety standards for outlet boxes, conduit boxes and fittings
13. NEMA FB-1 – Standards publication: Fittings and supports for conduit and cable assemblies

Please note
The excerpts and other material herein, whether relating to the Canadian Standards Association, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation. Reference to original or primary source material and data is mandatory before any application or use is made of the product.
Rigid metal conduit fittings
Suggested specifications for rigid metal conduit/PVC coated rigid metal conduit and fittings

- Conduit shall be securely fastened in place, at intervals as specified by the code, using suitable straps, hangers and other supporting assemblies as indicated on plans and as manufactured by ABB, series 1276, 690 and 700. All strap hangers and supporting assemblies shall be of rugged construction capable of supporting weight with a reasonable factor of safety and shall be adequately protected against corrosion. Where applicable, it shall conform to Canadian Standards Association Standard C22.2 No. 18.
- In wet locations or in locations where corrosive conditions are present, vertical and horizontal runs of conduit shall be firmly supported so that there is at least \( \frac{1}{4} \) in. air space between the conduit and the wall or supporting surface. Spacers and supporting straps shall be of malleable iron construction, hot dipped galvanized conforming to Canadian Standards Association Standard C22.2 No. 18. Such as series 1276 straps and series 1350 spacers. Nonferrous metal straps and spacers may be substituted as required.
- Where threaded conduit terminates into a threadless opening, a locknut shall be provided both inside and outside the box or enclosure and the conduit end shall be fitted with an insulating bushing. In wet locations, a suitable gasket shall be provided between the outside locknut and the opening.
- Locknuts shall be rugged, of hardened steel or malleable iron construction, electro-zinc plated and capable of cutting through protective coating on box or enclosure to ensure positive bond such as series 140.
- Where raceway and associated fittings are used as part of an equipment grounding system, terminating fittings shall be equipped with bonding-type locknuts such as series 106 bonding locknuts. Sealing gaskets shall be constructed of oil-resistant/moisture-resistant rubber and shall be suitably protected by and permanently bonded to a stainless steel retainer such as series 5302.
- Where threaded rigid metal conduit is installed outdoor or indoors or in locations exposed to continuous or intermittent moisture, a sealing hub-type terminating fitting shall be installed. Hubs shall be of malleable iron/steel construction, electro-zinc plated and equipped with a nylon insulated throat and oil-resistant/moisture-resistant sealing ring as manufactured by ABB, series 370 or series H050-TB. Female taper hub threads shall be adequately relieved to prevent bottoming of conduit.
- Hubs constructed of copper-free aluminum may be substituted when used with rigid nonferrous (aluminum) metal conduit, series 370AL or H050A.

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<table>
<thead>
<tr>
<th>Rigid metal conduit fittings</th>
<th>Suggested specifications for rigid metal conduit/PVC coated rigid metal conduit and fittings</th>
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<tbody>
<tr>
<td>01 Series 1276 conduit strap</td>
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<tr>
<td>02 Series 690 conduit support</td>
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<tr>
<td>03 Series 700 adjustable beam clamp</td>
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<td>04 Series 1350 conduit spacer</td>
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<tr>
<td>05 Series 140 locknut</td>
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<tr>
<td>06 Series 106 bonding locknut</td>
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<tr>
<td>07 Series 5302 sealing gasket</td>
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<tr>
<td>08 Series 370 threaded hub (raintight)</td>
<td></td>
</tr>
</tbody>
</table>
Rigid metal conduit fittings
Suggested specifications for rigid metal conduit/PVC coated rigid metal conduit and fittings, continued

• For environmental conditions that are more than normally corrosive to exposed surfaces, hubs suitably protected with PVC coating such as series 485 shall be used.
• Where concrete-tight requirements must be met, or in dry locations, rigid metal conduit or intermediate metal conduit fittings and couplings shall be of the concrete-tight type. Fittings shall be rugged, of ferrous metal construction, electro-zinc plated inside and outside and furnished with a nylon bushing as manufactured by ABB, series 8123 and 8120. Insulated set screw-type fittings such as series 8125 and 8124 may be substituted unless otherwise indicated on drawings.
• Components critical to performance such as set screws, split rings and locknuts shall be hardened or adequately designed to ensure positive bond between conduit and enclosure or conduit runs.
• All fittings of the system shall be capable of carrying ground fault currents per the following:
  - ½ in. through 1½ in. size...10,000 amps RMS (duration of fault current 3 cycles)
  - 2 in. and above...20,000 amps RMS (duration of fault current 3 cycles)
• All back-to-back nippling of boxes shall be done using locknuts and nylon-bushed nipples as manufactured by ABB, series 140 locknuts and series 1942 nipples. Nipples, or suitably designed bushings such as series 3210, shall also be used where conductors pass through either factory or field-punched, cut or drilled holes in metallic members.
• Where neither length of threaded conduit can be rotated, couplings such as series 674 shall be installed in conduit runs.
Rigid metal conduit fittings
Suggested specifications for rigid metal conduit/PVC coated rigid metal conduit and fittings, continued

- Where threaded or threadless conduit terminates outside a box or an enclosure, or where conduit is stubbed up, it shall be equipped with an insulated metallic or nonmetallic bushing such as series 1222 or TRIB50.
- Where code requires bonding and grounding of single or multiple rigid metal conduit or where positive bonding and grounding of conduit to the box, enclosure or auxiliary gutter is required, the end of the conduit shall be equipped with an insulated metallic grounding and bonding bushing such as series 3870.
- Insulated metallic grounding and bonding bushing shall be approved for the purpose. It shall be of malleable iron/steel construction adequately protected against corrosion, assembled with an insulator listed or certified for 150 °C/302 °F application and flammability rating of 94V-0 with insulator positively secured in place.
- Bonding to enclosure shall not be dependent on locknut bushing-type contact but by a positive bonding means such as a hardened screw or equivalent.
Rigid metal conduit fittings
Suggested specifications for rigid metal conduit/PVC coated rigid metal conduit and fittings

- Rigid ferrous metal conduit or PVC-coated rigid conduit prior to coating shall be of the hot dipped galvanized type, adequately protected against corrosion inside and outside including threads, and conforming to the following applicable specifications:
  - Rigid ferrous metal conduit Federal Specification WW-C-581/ANSI C80.1/UL 6/CSA C22.2 No. 45
  - PVC-coated ferrous metal conduit applicable listed under (i) and in addition conforming to NEMA Publication No. RNI-2005 (Type A) PVC coating on conduit and associated fittings shall have no sags, blisters, lumps or other surface defects and shall be free of holes.
- Rigid nonferrous metal conduit shall conform to Federal Specification WW-C-540/ANSI C80.5/UL 6/CSA C22.2 No. 45.
- All field cuts shall be square, reamed and deburred. Conduit threads shall be tapered for entire length with 3/4 in. taper per ft. Conduit threads prior to assembly shall be clean and coated with grease metallic-type conductive compounds such as series CP8 KOPR-SHIELD for ferrous conduit or series AP8 ALUMA-SHIELD for nonferrous (aluminum) conduit as manufactured by ABB.
- To prevent ingress of plaster, dirt, trash or moisture in raceways, boxes, fittings and equipment during course of construction, all open ends shall be closed with rugged thermoplastic plugs as manufactured by ABB, series 1470 and 1451. Plugs shall be firmly secured in place to provide adequate seal and shall be functionally unaffected by moisture. Thermoplastic plugs shall be rated at 105 °C/221 °F and have a UL flammability rating of 94V-1.

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01 Cat. #CP8 KOPR-SHIELD*
02 Cat. #AP8 ALUMA-SHIELD®
03 Series 1451 knockout plug
04 Series 1470 plug, conduit/fitting
* Trademark of Jet-Lube, Inc.
## Rigid and intermediate metal conduit fittings

### Locknuts

<table>
<thead>
<tr>
<th>Application</th>
<th>Standard finish</th>
</tr>
</thead>
</table>
| • To connect externally threaded conduit or fitting to a threadless opening in a box or enclosure  
• To effectively bond conduit or fitting to box or enclosure | • All steel and malleable iron locknuts including bonding screws electro-zinc plated; all aluminum locknuts degreased. |

### Features

- Hardened steel/malleable iron/copper-free aluminum construction  
- Tightens without deformation  
- Locknuts specially designed to  
  1. Provide extended reach for clamping on thin boxes and enclosures  
  2. Cut through protective coating on box and enclosure, thereby ensuring ground continuity  
  3. Permit tightening from outside  
  4. Prevent loosening under vibration  
- 106 Series provided with a hardened cone point screw

### Standard material

**140 series and 106 series**

- ¼ in. through 2 in. steel (hardened)  
- 2¼ in. through 6 in. malleable iron  
- All screws steel  

**141AL series**

- All copper-free aluminum (less than 0.4% copper)

### Range

- ¼ in. through 6 in. conduit (all threads straight pipe [NPS]) (140 series)  
- ½ in. through 4 in. conduit (106 series and 141AL series)

### Conformance

- UL 514B  
- CSA C22.2 No. 18.3  
- NEMA FB-1  
- ANSI C80.4  
- Federal Specification W-F-408  
- Federal Standard H-28 (threads)

### Case-hardened locknuts

Case-hardened locknuts make fittings faster and easier to install. Case-hardened locknuts do not slip or turn, thereby protecting the biting edge. Case-hardened locknuts bite through the paint on the enclosure, providing excellent continuity of ground (typical T&B fitting with case-hardened locknuts successfully passed minimum fault current of 10,000 amps RMS). Case-hardened locknuts when assembled in the intended manner will not vibrate loose, thereby ensuring excellent ground continuity.
### Rigid and intermediate metal conduit fittings

#### Locknuts

**Steel or malleable iron (steel through 2 in.) or aluminum 624**

Many of the standard conduit and cable fittings are furnished with case-hardened locknuts. This exclusive feature means the locknut tightens up against the box without deforming; the locknut bites into the box, providing a positive ground; and the fitting can be tightened from outside the box.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Screw Size (in.)</th>
<th>Dimensions (in.)</th>
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<tbody>
<tr>
<td>106</td>
<td>3⁄16</td>
<td>8-32 x 3⁄8</td>
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<tr>
<td>107</td>
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<td>8-32 x 3⁄8</td>
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<td>8-32 x 3⁄8</td>
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<td>109</td>
<td>5⁄32</td>
<td>8-32 x 3⁄8</td>
<td>2⁄16</td>
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<tr>
<td>110-TB</td>
<td>9⁄32</td>
<td>4×20 x 5⁄32</td>
<td>3⁄4</td>
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<tr>
<td>111</td>
<td>3⁄4</td>
<td>4×20 x 5⁄32</td>
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<td>112-TB</td>
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<tr>
<td>113-TB</td>
<td>13⁄32</td>
<td>4×20 x 5⁄32</td>
<td>5⁄16</td>
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</tbody>
</table>

* Hex shape
** Case-hardened locknuts
Aluminum locknuts comply with federal standard of copper-free aluminum; less than 0.4% copper
† Not UL listed or CSA certified

#### Bonding locknuts

Use anywhere an ordinary locknut is installed to ensure positive bonding of conduit to box and prevent loosening due to vibration. Also can be used for service entrance applications in conformance with code. T&B rigid conduit and EMT (thinwall) fittings comply with Federal Specification WF 408C.

<table>
<thead>
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<td>113-TB</td>
<td>13⁄32</td>
<td>4×20 x 5⁄32</td>
<td>5⁄16</td>
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</table>

Steel finish: zinc plated
# Rigid and intermediate metal conduit fittings

## Sealing rings

**Molded Santoprene seal / colour: blue**
Provides positive seal against water and oil. For use with rigid and intermediate metal conduit, or fittings to provide watertight or raintight seal at all enclosures. NPS threads.

## Fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B±1/64</th>
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<td>146SL</td>
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<td>3.175</td>
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</table>

Steel finish: zinc plated

**Sealing ring – Santoprene thermoplastic rubber**
These sealing rings provide a liquidtight, dust-tight seal of fitting at enclosures.

## Sealing rings with stainless steel retainer

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>A</th>
<th>B±1/64</th>
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<tr>
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<tr>
<td>5304</td>
<td>1</td>
<td>1 1/4</td>
<td>1/4</td>
</tr>
<tr>
<td>5305</td>
<td>1 1/4</td>
<td>2 1/4</td>
<td>1/4</td>
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<td>5306</td>
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<td>5307</td>
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<td>5308</td>
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<tr>
<td>5311</td>
<td>4</td>
<td>5 1/4</td>
<td>4 1/4</td>
</tr>
</tbody>
</table>

NEMA 3R, 4, 6 and 13
Rigid and intermediate metal conduit fittings
Bonding and grounding wedges

**Application**
- To effectively bond terminating fitting or conduit to a box or enclosure

**Features**
- Sizes ¼ in. through 6 in. equipped with an additional bonding screw to install bonding jumper where required
- Can be added to an existing installation without disconnecting conductors

**Standard material/finish**
- ¼ in. size:
  - Steel/electro-zinc plated
- ¾ in. through 6 in. size:
  - Bronze/tin plated

**Range**
- ¼ in. through 6 in. conduit

**Conformity**
- UL 467
- CSA C22.2 No. 41
- NFPA70-2008 (ANSI)

Especially suited for grounding old work, but equally convenient for new, grounding wedges provide grounding without a jumper except in concentric knockouts. When a jumper is required, it fits under a set screw in the grounding wedge.

Update existing installations to meet code requirements for bonding (CEC Section 10-806) without disconnecting wiring. Use on new wiring also.
1. Loosen bushing and position wedge
2. Tighten bushing and bonding screw

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**Bonding and grounding wedges**

<table>
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<th>Series 3650</th>
<th>Cat. no.</th>
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**Bonding and grounding wedges**

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Rigid and intermediate metal conduit fittings
Blackjack® – Conduit grounding bushings

Innovative design makes installation quicker, easier.
The Blackjack grounding bushing never has to be threaded onto a conduit. It is simply placed in position on either a threaded or non-threaded rigid or IMC conduit, with the grounding lug in perfect position to accept the grounding wire. Even in tight installations, it’s as simple as one, two, three.

Compare the installation with conventional bushings that must be threaded onto the conduit. In tight areas, you may have to remove the grounding lug, keep up with the loose parts and then reattach the lug. Then you still have to twist and turn the bushing to get the lug in position to accept the grounding wire. The Blackjack bushing does away with these needless delays for good, making it the ideal grounding bushing and the only logical choice for small spaces, corners and multiple conduit runs. And, because the grounding lug is an integral part of the bushing, it is designed not to fall off or get lost.

Innovative design improves performance.
The Blackjack bushing provides superior ground continuity.
The design of the Blackjack bushing has an integral, cast-on grounding lug for better ground continuity. This means that the Blackjack bushing stands up to intense loads.

Secure grip forms lasting bond.
The Blackjack bushing’s cone point mounting screw bites securely into both threaded and non-threaded rigid conduit. And the Blackjack bushing's nylon locking patch is designed to prevent the screw from loosening due to vibration.

Reduce inventory.
Because the Blackjack grounding bushing is designed for threaded and non-threaded conduit, and the ground lugs are designed to handle an extended range, the number of parts in inventory is reduced by up to two-thirds without losing any application coverage.

Lug screw:
• 14–4: Slotted
• 14–2/0: Slotted
• 6–4/0: Internal hex drive

Standard material/finish
• Body: Malleable iron or aluminum
• Mounting screw: (½ in.-2 in.) stainless steel, (2⅛ in.-6 in.) brass
• Lug screw: Stainless steel
• Finish: Zinc plated or mechanical galvanized

Range
• Conduit: ½ in. through 6 in. threaded or threadless rigid/IMC
• Wire range: #14 AWG to 4/0 AWG Cu/Al

Conformity
• UL 514B and UL 467
• CSA C22.2 No. 18.3 and CSA C22.2 No. 41
## Blackjack® – Conduit grounding bushings

### Suggested specifications

Insulated grounding and bonding bushing
(Series BG050-BG600)

Where code requires bonding and grounding of single or multiple metal conduit, or positive bonding and grounding of metal conduit to the box, enclosure or auxiliary gutter, the end of the conduit shall be equipped with an insulated metallic grounding and bonding bushing series BG050-14-20 as manufactured by ABB.

Grounding and bonding bushings used shall be approved for the purpose and
(i) Shall be of malleable iron/steel/aluminum construction adequately protected against corrosion.
(ii) Bushing insulator shall be listed or certified for 150 °C/302 °F application with a flammability rating of 94V-0. Insulator must be positively locked in place.
* Mechanical galvanization is available in the 3870 series; add suffix MG to cat. no.

### Diagrams

Nylon insulator (150 °C)  Mounting screw

Lug screw
14–4: slotted
14–2/0: slotted
6–4/0: internal hex drive

For threaded and threadless rigid and IMC conduit

### Table

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<th>Cat. no.</th>
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<th>ØB Max.</th>
<th>ØC Max.</th>
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Rigid and intermediate metal conduit fittings
Threaded insulated grounding bushings

**Application**
- For quick installation of bonding jumper to multiple metal conduit (rigid and IMC)
- Designed to bush conductors and prevent insulation damage

**Features**
- Ease of installation, lay-in lug design
- Cast malleable iron body designed to lock insulator in place within body, reducing common assembly problem resulting in dislodging of insulator
- Insulator rated for 150 °C/302 °F application

**Standard material / finish**
- Body: Electro-zinc plated
- Lay-in lug: Aluminum/tin-plated
- Insulator: Thermoplastic 150 °C/302 °F
- Application with 94V-0 flammability

---

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*Temperature rating 150 °C
Meets Coast Guard Regulation CG293
*Contact your regional sales office for copper lay-in lug
Rigid and intermediate metal conduit fittings

Bushings

Nylon insulated metallic bushings. Steel or malleable iron (steel through 1½ in.) The Canadian Electric Code 10-906 (2) calls for protection of ungrounded conductors by means of smoothly rounded insulating surfaces at the entrance to raceways, pull boxes, junction boxes, etc. T&B insulated throat fittings, recognizable by the distinctive trademarked blue insulating liner in the throat, meet and surpass this code requirement. In addition, T&B insulated fittings also reduce wire pulling effort by as much as 50%. Temperature rating 105 °C.

Insulated throat fittings

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† Not CSA Certified
The aluminum series are not CSA certified

Aluminum, steel or malleable iron (steel through 1½ in.) Smoothly rounded shoulder covers end of conduit; broad flange covers knockout hole. High ribs make tightening easy with fingers or with wrench.

Metallic bushings

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<td>3a</td>
<td>¾a</td>
</tr>
<tr>
<td>130-TB</td>
<td>130AL</td>
<td>3¼</td>
<td>4⅜a</td>
<td>4a</td>
<td>¾a</td>
</tr>
<tr>
<td>131-TB</td>
<td>131AL</td>
<td>4</td>
<td>4⅜a</td>
<td>4a</td>
<td>¾a</td>
</tr>
<tr>
<td>132-TB</td>
<td>–</td>
<td>4½</td>
<td>5⅜a</td>
<td>5a</td>
<td>¾a</td>
</tr>
<tr>
<td>133-TB</td>
<td>133AL</td>
<td>5</td>
<td>6⅜a</td>
<td>6a</td>
<td>¾a</td>
</tr>
<tr>
<td>134-TB</td>
<td>134AL</td>
<td>6</td>
<td>7⅜a</td>
<td>7a</td>
<td>¾a</td>
</tr>
</tbody>
</table>

* Not UL Listed or CSA Certified
### Rigid and intermediate metal conduit fittings

**Plastic insulating bushings**

All-plastic insulating bushings
Impact-resistant plastic insulation. These bushings have ribs for gripping when installing. Perfect threads for easy thread on. UL Listed 105 °C. NPT threaded.

### Plastic insulating bushings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Diagram</td>
<td></td>
<td></td>
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<tr>
<td>222-TB</td>
<td>¼</td>
<td>1¾₈</td>
</tr>
<tr>
<td>223-TB</td>
<td>¼</td>
<td>1¾₈</td>
</tr>
<tr>
<td>224</td>
<td>1½</td>
<td>2½₁₆</td>
</tr>
<tr>
<td>225-TB</td>
<td>1¼</td>
<td>2½₁₆</td>
</tr>
<tr>
<td>226</td>
<td>1½</td>
<td>2½₁₆</td>
</tr>
<tr>
<td>227</td>
<td>2</td>
<td>2½₁₆</td>
</tr>
<tr>
<td>228-TB</td>
<td>2½</td>
<td>3¼₁₆</td>
</tr>
<tr>
<td>229-TB</td>
<td>3</td>
<td>4½₁₆</td>
</tr>
<tr>
<td>230-TB</td>
<td>3½</td>
<td>4½₁₆</td>
</tr>
<tr>
<td>231</td>
<td>4</td>
<td>5½₁₆</td>
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<tr>
<td>232</td>
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<td>233</td>
<td>5</td>
<td>6½₁₆</td>
</tr>
<tr>
<td>234</td>
<td>6</td>
<td>7½₁₆</td>
</tr>
</tbody>
</table>

Flame retardant. UL rated 94V-1
Rigid and intermediate metal conduit fittings
Insulating bushings for threadless rigid conduit and intermediate metal conduit

**Application**
- When assembled to the end of a threadless conduit, provides a well-rounded insulating surface over which conductors may be pulled or on which conductors may bear while in service

**Features**
- Designed to be popped onto, and bush, conduit end
- Fast easy installation without screws
- High impact thermoplastic construction

**Standard material**
- High impact thermoplastic listed for 105 °C (221 °F) application
- Flammability classification 94V-1

**Standard finish**
- As molded

**Range**
- ½ in.–4 in. conduit

**Conformity**
- UL 514B
- ANSI C80.4
- NFPA 70-2008 (ANSI)

---

**Insulated metallic bushing**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIB-50</td>
<td>½</td>
<td>1(\frac{1}{8})</td>
<td>1(\frac{7}{8})</td>
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</tr>
<tr>
<td>TRIB-75</td>
<td>¾</td>
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<td>TRIB-100</td>
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<td>1</td>
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<td>1(\frac{1}{8})</td>
</tr>
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<td>TRIB-150</td>
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<tr>
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<td>2</td>
<td>2(\frac{3}{4})</td>
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<tr>
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<td></td>
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<tr>
<td>TRIB-300</td>
<td>3</td>
<td>3(\frac{3}{8})</td>
<td>5(\frac{1}{8})</td>
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<td>3(\frac{3}{4})</td>
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<tr>
<td>TRIB-400</td>
<td>4</td>
<td>3(\frac{3}{4})</td>
<td>2(\frac{1}{4})</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions (in.)**

IMC sizes ½ in.–4 in.
UL Rated flame retardant 94V-1
**Rigid and intermediate metal conduit fittings**

**Knockout bushings**

**Application**
- To bush knockout openings in metal boxes or enclosures

**Features**
- One-piece construction designed to snap in place
- High impact strength self-extinguishing, non-dripping (per UL 94) thermoplastic construction

**Standard material**
- Thermoplastic rated for 105 °C (221 °F) application

**Standard finish**
- As molded

**Range**
- 0.875 in. through 2.469 in. nominal diameter knockout opening (¼ in. through 2 in. trade size knockouts)
- Wall thickness of box or enclosure 0.095 in. max. up to 1 in. trade size, 0.140 in. max. 1¼ in. through 2 in. trade size

**Conformity**
- UL 514B
- CSA C22.2 No. 18.3
- NFPA 70-2008 (ANSI)

One-piece knockout bushing quickly snaps into outlet box, switch box or other enclosure left vacant by wiring modifications or maintenance changes. Provides smooth, rounded insulation surface for easy wire pulling. Easily installed by hand, they are available to fit ½ in. through 2 in. knockouts. UL Listed 105 °C. High impact thermoplastic.

---

**Knockout bushings**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>For use in KO* +0.032/-0.16 (in.)</th>
<th>Max. wall thickness of elec. box (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3210</td>
<td>¼</td>
<td>0.875</td>
<td>0.095</td>
<td>1.000</td>
</tr>
<tr>
<td>3211</td>
<td>½</td>
<td>1.109</td>
<td>0.095</td>
<td>1.215</td>
</tr>
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<td>3212</td>
<td>1</td>
<td>1.375</td>
<td>0.095</td>
<td>1.500</td>
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<td>3213</td>
<td>1¼</td>
<td>1.734</td>
<td>0.140</td>
<td>1.865</td>
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<td>3214</td>
<td>1½</td>
<td>1.984</td>
<td>0.140</td>
<td>2.240</td>
</tr>
<tr>
<td>3215</td>
<td>2</td>
<td>2.469</td>
<td>0.140</td>
<td>2.740</td>
</tr>
</tbody>
</table>

* Per UL and NEMA standards
Material: Thermoplastic
Flammability classification of 94V-1 Per UL 94
Service temperature: -40 °C to 105 °C
Rigid and intermediate metal conduit fittings

INSULINER® sleeves

Slip over wires – insert into bushing – snaps into place.

High dielectric nylon, 105 °C. An INSULINER sleeve snapped into a regular bushing makes a CSA Listed insulated bushing. For standard rigid conduit, EMT (thinwall conduit) or any standard bushed outlet. Especially suitable for use with flexible metallic conduit. Converts ordinary bushing to code-approved insulated bushing without disturbing wiring.

**INSULINER sleeves**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>422</td>
<td>¼</td>
<td>⅛</td>
<td>⅜</td>
<td>0.022</td>
</tr>
<tr>
<td>423</td>
<td>⅝</td>
<td>⅜</td>
<td>⅞</td>
<td>0.025</td>
</tr>
<tr>
<td>424</td>
<td>1</td>
<td>⅜</td>
<td>⅞</td>
<td>0.040</td>
</tr>
<tr>
<td>425</td>
<td>1⅛</td>
<td>1</td>
<td>⅞</td>
<td>0.040</td>
</tr>
<tr>
<td>426-TB</td>
<td>1⅜</td>
<td>1</td>
<td>⅞</td>
<td>0.050</td>
</tr>
<tr>
<td>427-TB</td>
<td>2</td>
<td>⅞</td>
<td>⅞</td>
<td>0.050</td>
</tr>
<tr>
<td>428-TB</td>
<td>2⅛</td>
<td>1⅛</td>
<td>⅞</td>
<td>0.035</td>
</tr>
<tr>
<td>429</td>
<td>3</td>
<td>1⅛</td>
<td>⅞</td>
<td>0.035</td>
</tr>
<tr>
<td>430-TB</td>
<td>3⅛</td>
<td>1⅞</td>
<td>⅞</td>
<td>0.035</td>
</tr>
<tr>
<td>431</td>
<td>4</td>
<td>2⅛</td>
<td>⅞</td>
<td>0.035</td>
</tr>
<tr>
<td>433</td>
<td>5</td>
<td>2⅜</td>
<td>⅞</td>
<td>0.035</td>
</tr>
<tr>
<td>434</td>
<td>6</td>
<td>2⅝</td>
<td>⅞</td>
<td>0.035</td>
</tr>
</tbody>
</table>

Oxygen index >28°
Rigid and intermediate metal conduit fittings

Knockout plugs

Application
- To bush knockout openings in metal boxes or enclosures

Features
- One-piece construction designed to snap in place
- High impact strength self extinguishing non-dripping (per UL 94) thermoplastic construction

Standard material
- Thermoplastic rated for 105 °C (221 °F) application

Standard finish
- As molded

Range
- 0.875 in. through 2.469 in. nominal diameter knockout opening (¼ in. through 2 in. trade size knockouts)
- Wall thickness of box or enclosure:
  - 0.095 in. max. up to 1 in. trade size
  - 0.140 in. max. 1¼ in. through 2 in. trade sizes

Conformity
- UL 514B
- CSA C22.2 No. 18.3
- NFPA 70-2008 (ANSI)

105 °C rated by UL. Made from flame-retardant, non-dripping thermoplastic.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Knockout trade size (in.)</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1451</td>
<td>¼</td>
<td>1.060</td>
<td>0.400</td>
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<tr>
<td>1452</td>
<td>¾</td>
<td>1.300</td>
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<td>1453</td>
<td>1</td>
<td>1.590</td>
<td>0.400</td>
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<td>1454</td>
<td>1¼</td>
<td>1.860</td>
<td>0.450</td>
</tr>
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<td>1455</td>
<td>1½</td>
<td>2.240</td>
<td>0.570</td>
</tr>
<tr>
<td>1456</td>
<td>2</td>
<td>2.740</td>
<td>0.570</td>
</tr>
</tbody>
</table>

Wall thickness of electrical box 0.095 max.
Meets Coast Guard Regulation CB293

A penny under a bushing will seal the end of the conduit during construction. Made to fit any bushing. Completely salvageable.
Rigid and intermediate metal conduit fittings
Bushings and Push-Penny® plugs

Application
- To plug open end of conduit or fitting in order to prevent ingress of trash, dirt or moisture during construction and remodeling

Features
- Wide range of applications; can be used with rigid metal conduit, intermediate metal conduit, electrical metallic tubing, all connectors and all bushings
- Designed to stand up to normal handling and is functionally unaffected by moisture

Standard material
- Polyethylene

Standard finish
- As molded

Conformity
- CSA C22.2 No. 18
- ANSI C80.4
- NFPA 70-2008 (ANSI)
- NEMA FB-1

CEC Rule: 12-3024
- “Unused openings in boxes, cabinets and fittings shall be effectively closed by plugs or plates affording protection substantially equivalent to that of the wall of the box, cabinet or fittings.”

Bushings and Push-Penny® plugs

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A (in.)</th>
<th>Bushing</th>
<th>Push-Penny</th>
</tr>
</thead>
<tbody>
<tr>
<td>1460</td>
<td>1/2</td>
<td>1 3/16</td>
<td>122</td>
<td>1470-TB</td>
</tr>
<tr>
<td>1461</td>
<td>3/8</td>
<td>1 5/16</td>
<td>123</td>
<td>1471</td>
</tr>
<tr>
<td>1462</td>
<td>1</td>
<td>1 13/16</td>
<td>124</td>
<td>1472</td>
</tr>
<tr>
<td>1463</td>
<td>1 1/8</td>
<td>1 13/16</td>
<td>125</td>
<td>1473</td>
</tr>
<tr>
<td>1464</td>
<td>1 1/4</td>
<td>2 1/16</td>
<td>126</td>
<td>1474</td>
</tr>
<tr>
<td>1465*</td>
<td>2</td>
<td>2 9/16</td>
<td>127</td>
<td>1475</td>
</tr>
</tbody>
</table>

* Malleable Iron
Available in aluminum
Add suffix AL to cat. no.

Push-Penny plugs

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1470-TB</td>
<td>1/2</td>
</tr>
<tr>
<td>1471</td>
<td>3/8</td>
</tr>
<tr>
<td>1472</td>
<td>1</td>
</tr>
<tr>
<td>1473</td>
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<tr>
<td>1474</td>
<td>1 1/8</td>
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<tr>
<td>1475</td>
<td>2</td>
</tr>
<tr>
<td>1476*</td>
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<tr>
<td>1477*</td>
<td>3</td>
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<tr>
<td>1478*</td>
<td>3 1/8</td>
</tr>
<tr>
<td>1479*</td>
<td>4</td>
</tr>
</tbody>
</table>

*Not CSA Certified
UL not applicable
Rigid and intermediate metal conduit fittings

Chase nipples

**Application**
- To effectively bush factory or field-punched, cut, or drilled holes in metal boxes or enclosures
- To couple boxes back-to-back

**Features**
- Rugged construction
- Insulator curled over to: Bush conductors entering/leaving at any angle, reduce wire pull effort, protect threads against damage in handling

**Standard material**

**1942 Series**
- Body:
  - ½ in. – Steel
  - ¾ in., ¾ in. through 6 in. – Malleable iron
- Insulator: Nylon
- 842AL Series: All copper-free aluminum (less than 0.4% copper)

**Standard finish**
- 1942 Series: Electro-zinc plated and chromate coated
- 842AL Series: Degreased

**Range 1942 and 842AL series**
- ½ in. through 6 in.
- All hub threads straight pipe (NPS)

**Conformity**
- UL 514B
- CSA C22.2 No. 18.3
- Federal Specification W-F-408
- ANSI C80.4
- NFPA 70-2008 (ANSI)
- NEMA FB-1
- Federal Standard H-28 (threads)

---

**CHASE nipples – Non-insulated**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Alum.</th>
<th>Size (in.)</th>
<th>Dimensions (in.)</th>
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<tbody>
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<td>Diagram</td>
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</tr>
<tr>
<td>841TB</td>
<td>–</td>
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<tr>
<td>842TB†</td>
<td>842ALB</td>
<td>½</td>
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<tr>
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<td>843ALB</td>
<td>¾</td>
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<td>845AL</td>
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<td>1(\frac{1}{4})</td>
</tr>
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<td>846AL</td>
<td>1(\frac{1}{2})</td>
<td>2(\frac{1}{4})</td>
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<tr>
<td>847</td>
<td>847AL</td>
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<td>848AL</td>
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<td>849AL</td>
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<td>850AL</td>
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<tr>
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<td>851AL</td>
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<td>853AL</td>
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<td>854†</td>
<td>854AL</td>
<td>6</td>
<td>6(\frac{1}{4})</td>
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</tbody>
</table>

† Not UL Listed
## Rigid and intermediate metal conduit fittings

**CHASE nipples**

---

Steel or malleable iron

---

**CHASE nipples – Nylon insulated**

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
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<td>½</td>
<td>½</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td></td>
<td>1943</td>
<td>¼</td>
<td>¼</td>
<td>¼</td>
<td>¼</td>
</tr>
<tr>
<td></td>
<td>1944</td>
<td>1</td>
<td>1½</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td></td>
<td>1945</td>
<td>1¼</td>
<td>1¼</td>
<td>1¼</td>
<td>1¼</td>
</tr>
<tr>
<td></td>
<td>1946</td>
<td>1½</td>
<td>2¼</td>
<td>2¼</td>
<td>2¼</td>
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<tr>
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<td>1947</td>
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<td>2½</td>
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<td>3½</td>
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<tr>
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<td>1949</td>
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<td>3½</td>
<td>3½</td>
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<td>1950</td>
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<td>4¼</td>
<td>4¼</td>
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<td>4¼</td>
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<tr>
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<td>5</td>
<td>5¼</td>
<td>5¼</td>
<td>5¼</td>
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<td></td>
<td>1954</td>
<td>6</td>
<td>6¼</td>
<td>6¼</td>
<td>6¼</td>
</tr>
</tbody>
</table>
Rigid and intermediate metal conduit fittings
Threaded hubs (Bullet® hubs) for threaded rigid metal conduit/IMC/PVC-coated rigid metal conduit

Application
• To connect threaded metal conduit (ferrous rigid/nonferrous rigid/PVC-coated/or intermediate metal) to a threadless opening in a box or enclosure in outdoor or indoor location exposed to continuous or intermittent moisture
• To positively bond conduit to box or enclosure

Features
• Rugged steel/malleable iron/copper-free aluminum construction
• Tapered internal threads for watertight/dust-tight union (A)
• Threads relieved to prevent bottoming of conduit, ensuring sound assembly (B)
• Recessed sealing ring at box end; captive sealing ring (C)
• Hardened steel/malleable iron/copper-free aluminum locknuts designed to provide high quality ground continuity; extended reach of locknut permits clamping on thin boxes and enclosures (D)
• Insulated throat protects conductors, prevents abrasion and thinning of conductor insulation, reduces wire pull effort (E)
• Suitable for hazardous location use per following:
  (1) Class II, Division 1 Groups E, F, G,
    CEC Rule 18-202
  Class II, Division 2 Groups E, F, G,
    CEC Rule 18-252
  Class III, Division 1 Rule 18-302
  Class III, Division 2 Rule 18-352
• PVC-coated 485 series
  (1) Protects fitting from extremely corrosive surroundings without affecting integrity of electrical grounding path (F)
  (2) Provided with overlapping sleeve for additional seal (G)

Canadian Electric Code Rule 10-602 states that, “Where dissimilar metals cannot be avoided at bonding connections as indicated in Rule 2-112 (2). Connections shall be made using methods or material that will minimize deterioration from galvanic action.”

Joint Industrial Council (JIC) Electrical Standards also forbid dissimilar metals in contact for the same reason and require that the fittings for metal conduit be of malleable iron or ductile iron and have impact strength comparable to that of the conduit.

“Copper-free aluminum”
• Copper-free aluminum castings for fittings have a maximum of 0.4% copper. The most detrimental effect of higher percentage of copper on aluminum base alloy is its decrease in corrosion resistance.

Diagrams

01 370 Series
370AL Series
02 485 Series
Rigid and intermediate metal conduit fittings
Threaded hubs (Bullet® hubs) for threaded rigid metal conduit/IMC/PVC-coated rigid metal conduit

---

**Standard material**

<table>
<thead>
<tr>
<th></th>
<th>370-485 Series</th>
<th>370AL Series</th>
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<tbody>
<tr>
<td><strong>Body</strong></td>
<td>½ in. through 1 in. steel</td>
<td>All copper-free aluminum</td>
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<tr>
<td></td>
<td>1¼ in. through 6 in. malleable iron</td>
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<tr>
<td><strong>Locknut</strong></td>
<td>½ in. through 2 in. steel (hardened)</td>
<td>½ in. through 2 in. steel (hardened)</td>
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<td></td>
<td>2¼ in. through 6 in. malleable iron</td>
<td>2-½ in. through 4 in. copper-free aluminum</td>
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<td><strong>Screws</strong></td>
<td>Steel (hardened)</td>
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<td><strong>O-ring</strong></td>
<td>Buna N</td>
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<tr>
<td><strong>Insulator</strong></td>
<td>Nylon</td>
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<tr>
<td><strong>Coating</strong></td>
<td>PVC</td>
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**Standard finish**

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<tr>
<th></th>
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<th>370AL Series</th>
<th>485 Series</th>
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<tbody>
<tr>
<td><strong>Hub</strong></td>
<td>Electro-zinc plated</td>
<td>As cast chromate coated</td>
<td>PVC – outside electro-zinc</td>
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<tr>
<td><strong>Locknuts</strong></td>
<td>All ferrous locknuts electro-zinc plated</td>
<td>and chromate coated</td>
<td>Plated chromate coated – inside</td>
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<td><strong>Screws</strong></td>
<td>All electro-zinc plated</td>
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<tr>
<td></td>
<td>and chromate coated</td>
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**Range**

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<tr>
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<th>370 Series</th>
<th>370AL and 485 Series</th>
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<tr>
<td><strong>370 Series</strong></td>
<td>½ in. through 6 in. conduit</td>
<td>½ in. through 4 in. conduit</td>
</tr>
<tr>
<td><strong>370AL and 485 Series</strong></td>
<td>All hub threads – straight pipe</td>
<td>All female threads – taper pipe (NPT)</td>
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</tbody>
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---

**Conformity**

UL 514B
CSA 22.2 No. 18.3
ANSI C80.4
NFPA 70-2008 (ANSI)
NEMA FB-1
JIC EGP1; JIC EMP 1
Federal Specification W-F-408
Federal Standard H-28 (threads)
# Rigid and Intermediate Metal Conduit Fittings

## Hubs

**Nylon insulated**

Aluminum, steel or malleable iron (steel through 1 in.). With neoprene O-ring provides a watertight threaded hub on enclosures. UL Listed 105 °C.

## Steel/malleable iron and aluminum hub fittings

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<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Description</th>
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**Note:** Aluminum not available with insulated throat

† UL Listed raintight and CSA Certified watertight and dust tight

## Bullet hub fittings with bonding locknut – Nylon insulated

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</table>

**Note:** CSA certified watertight and dust tight
**Rigid and intermediate metal conduit fittings**

**Hubs**

Steel or malleable iron (steel through 1½ in.)

---

**PVC-coated hub for rigid conduit**

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Locknut</th>
<th>PVC plastic coating</th>
<th>NFS thread</th>
<th>Insulator sealing ring</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Cat. no.</th>
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*485 Series are CSA Certified watertight and dust-tight for ordinary locations*

---

**Spacing chart for Bullet hubs**

<table>
<thead>
<tr>
<th>Center to center spacing conduit sizes (in.)</th>
<th>Min. space from center of Bullet hub to wall of box (in.)</th>
<th>KO diameter min. (in.)</th>
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**T&B Hub centerline spacing chart**

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</tbody>
</table>

**Nearest obstruction to center of hub**

| ¾ | 1⁵⁄₈ | 1  | 1  | 1  | 1  | 2 | 2  | 2  | 2  | 2  | 2  | 2  | 3  |
|---|------|----|----|----|----|---|---|---|---|---|---|---|---|---|
| 3 ⁵⁄₈ | 4 ³⁄₈ | 1 ¹⁄₄ | 1 ³⁄₈ | 1 ¹⁄₂ | 1 ³⁄₈ | 2 | 2 ³⁄₈ | 2 ³⁄₈ | 2 ³⁄₈ | 2 ³⁄₈ | 2 ³⁄₈ | 2 ³⁄₈ | 3 ³⁄₄ |

---

**Dimensions (in.)**

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Locknut</th>
<th>PVC plastic coating</th>
<th>NFS thread</th>
<th>Insulator sealing ring</th>
</tr>
</thead>
</table>

---

**Insulator sealing ring**

**PVC plastic coating**

---

**Center to center spacing conduit sizes (in.)**

<table>
<thead>
<tr>
<th>Center to center spacing conduit sizes (in.)</th>
<th>Min. space from center of Bullet hub to wall of box (in.)</th>
<th>KO diameter min. (in.)</th>
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<td>½</td>
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**T&B Hub centerline spacing chart**

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</tbody>
</table>

**Nearest obstruction to center of hub**

| ¾ | 1⁵⁄₈ | 1  | 1  | 1  | 1  | 2 | 2  | 2  | 2  | 2  | 2  | 2  | 3  |
|---|------|----|----|----|----|---|---|---|---|---|---|---|---|---|
| 3 ⁵⁄₈ | 4 ³⁄₈ | 1 ¹⁄₄ | 1 ³⁄₈ | 1 ¹⁄₂ | 1 ³⁄₈ | 2 | 2 ³⁄₈ | 2 ³⁄₈ | 2 ³⁄₈ | 2 ³⁄₈ | 2 ³⁄₈ | 2 ³⁄₈ | 3 ³⁄₄ |
Rigid and intermediate metal conduit fittings

Hubs

1. Sealing ring and groove with innovative profile outperforms standard O-ring design. Sealing ring is captive before installation and resists buckling or slipping during installation. The seal groove is designed for optimum compression of the sealing ring. The sealing ring is designed to provide a complete 360° seal, even when the conduit is not perpendicular with the enclosure. (See Figure 1)

2. Locknut design with peripheral slots and a hexagonal/angled spline spaced every 30° enables easy application of torque with wrench or hammer and screwdriver. (See Figures 2 & 3)

3. Sharper and deeper teeth on locknut and body designed for a more penetrating bite for improved bonding to the enclosure.

4. Hexagonal / splined body design for fast, easy installation with wrench or hammer and screwdriver.

5. Precision machined tapered threads designed to create watertight union.

6. Insulated throat molded from 105 °C rated thermoplastic with a flammability rating of 94V-0.

Never before has a single hub fit like this one. Designed for unequalled performance. The innovative engineering of the hub will, quite simply, raise your performance expectations for threaded hubs. The revolution in hub design is here, and the fate of our competition is sealed.

---

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Max. panel thickness (D in.)</th>
<th>Throat dia. (E in.)</th>
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<tr>
<td>H250-TB</td>
<td>H250A</td>
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<td>3 1/2</td>
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<tr>
<td>H350-TB</td>
<td>H350A</td>
<td>3 1/2</td>
<td>5</td>
</tr>
<tr>
<td>H400-TB</td>
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<td>5</td>
</tr>
<tr>
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<td>H500A</td>
<td>5</td>
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<tr>
<td>H600-TB</td>
<td>H600A</td>
<td>6</td>
<td>7 1/8</td>
</tr>
</tbody>
</table>

---

Material – Hub and locknut: Zinc or copper-free aluminum
Insulating throat: Thermoplastic temp. rating 105 °C, flammability rating: 94V-0
Sealing ring: Nitrile (Buna N)

For chrome-plated hubs add suffix CP (i.e. H050CP)
For aluminum hubs add suffix A (i.e. H050A)

For chrome-plated hubs (suffix “CP”) are rated NEMA 4X.

UL Listed and CSA Certified. CSA Certified use in hazardous locations Class I, Division 2, Class II, Groups E, F and G, Class III, Division 1, 2 and Type 4.
Rigid and intermediate metal conduit fittings

Hubs

Grounding hub

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Dia. (in.)</th>
<th>D Max. Panel Thickness</th>
<th>E Throat dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc</td>
<td>aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>H050GR-C</td>
<td>H050GRA-C</td>
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<td>1⁄16</td>
<td>1⁄32</td>
<td>1⁄32</td>
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<td>H075GR-C</td>
<td>H075GRA-C</td>
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<td>1⁄32</td>
<td>1⁄32</td>
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<td>H100GRA-C</td>
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<td>1⁄16</td>
<td>1⁄4</td>
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<td>H125GRA-C</td>
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<td>1⁄16</td>
<td>1⁄4</td>
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<td>H150GRA-C</td>
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<td>1⁄16</td>
<td>1⁄4</td>
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<tr>
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<td>H200GRA-C</td>
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<td>1⁄4</td>
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<td>H250GRA-C</td>
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<td>2⁄32</td>
<td>1⁄16</td>
<td>1⁄4</td>
</tr>
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<td>H300GRA-C</td>
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<td>1⁄4</td>
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<td>1⁄4</td>
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<tr>
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<td>H400GRA-C</td>
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<td>1⁄4</td>
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<td>H500GRA-C</td>
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<td>6⁄32</td>
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<td>H600GRA-C</td>
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Material—Hub and locknut: Zinc or copper-free aluminum
Insulating throat: Thermoplastic temp. rating 105 °C;
flammability rating: 94V-0
Sealing ring: Nitrile (Buna N)

Grounding and bonding locknut

<table>
<thead>
<tr>
<th>Cat. no. with lay-in lug</th>
<th>Cat. no. without lay-in lug</th>
<th>Trade size (in.)</th>
<th>A dia. (in.)</th>
<th>B height (in.)</th>
<th>Ground screw (in.)</th>
<th>Max. conductor size (AWG)</th>
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<tbody>
<tr>
<td>L050GRL</td>
<td>L050GR-C</td>
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<td>1⁄32</td>
<td>1⁄96</td>
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<td>#10</td>
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<td>1⁄32</td>
<td>1⁄96</td>
<td>#10-32 x 1⁄4</td>
<td>#10</td>
</tr>
<tr>
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<td>L100GR-C</td>
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<td>2</td>
<td>1⁄96</td>
<td>#10-32 x 1⁄4</td>
<td>#10</td>
</tr>
<tr>
<td>L125GRL</td>
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<td>13⁄64</td>
<td>2⁄32</td>
<td>1⁄96</td>
<td>1⁄4-20 x 1⁄4</td>
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</tr>
<tr>
<td>L150GRL</td>
<td>L150GR-C</td>
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<td>2⁄32</td>
<td>1⁄96</td>
<td>1⁄4-20 x 1⁄4</td>
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<td>L200GR-C</td>
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<td>1⁄96</td>
<td>1⁄4-20 x 1⁄4</td>
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</tr>
<tr>
<td>L250GRL</td>
<td>L250GR-C</td>
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<td>3⁄32</td>
<td>1⁄96</td>
<td>1⁄4-20 x 1⁄4</td>
<td>#6</td>
</tr>
<tr>
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<td>L300GR-C</td>
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<td>4⁄32</td>
<td>1⁄96</td>
<td>1⁄4-20 x 1⁄4</td>
<td>#6</td>
</tr>
<tr>
<td>L350GRL</td>
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<td>3⁄4</td>
<td>5</td>
<td>1⁄96</td>
<td>1⁄4-20 x 1⁄4</td>
<td>#6</td>
</tr>
<tr>
<td>L400GRL</td>
<td>L400GR-C</td>
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<td>5⁄32</td>
<td>1⁄96</td>
<td>1⁄4-20 x 1⁄4</td>
<td>#4</td>
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</table>

Material—Locknut: zinc or copper-free aluminum
For chrome-plated locknuts add suffix CP (i.e. L050GR-CP)
For aluminum locknuts add suffix A (i.e. L050GRA-C)
For 316 stainless steel locknuts add suffix SST (i.e. L050GRSST)
For chrome-plated hubs add suffix CP (i.e. H050GRCP)
For 316 stainless steel hubs add suffix SST (i.e. H050GRSST)

For PVC coating add suffix PVC (i.e. H050GRPVC-C)
For 316 stainless steel hubs add suffix SST (i.e. H050GRSST)
For chrome-plated hubs add suffix CP (i.e. H050GRCP)

CSA approved for use in hazardous locations: Class I, Division 2, Class II, Divisions 1 & 2, Groups E, F & G, Class III, Division 1, 2 and Type 4.

Meets NEMA sealing requirements for NEMA 3R, 4 & 13 enclosures
UL Listed and CSA Certified

For 316 stainless steel hubs add suffix SST (i.e. H050GRSST)
### Rigid and intermediate metal conduit fittings

#### Bulkhead fittings

<table>
<thead>
<tr>
<th>Cat. no. zinc</th>
<th>Cat. no. aluminum</th>
<th>Trade size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H050BHD</td>
<td>H050BHDA</td>
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</tr>
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<td>H075BHD</td>
<td>H075BHDA</td>
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<td>H200BHD</td>
<td>H200BHDA</td>
<td>2</td>
</tr>
<tr>
<td>H250BHD</td>
<td>H250BHDA</td>
<td>2(\frac{1}{8})</td>
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<td>H300BHDA</td>
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</tr>
<tr>
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<td>H400BHD</td>
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<td>5</td>
</tr>
<tr>
<td>H600BHD</td>
<td>H600BHDA</td>
<td>6</td>
</tr>
</tbody>
</table>

**Diagram**

- Nipple nut not included

#### Thru-bulkhead fittings

<table>
<thead>
<tr>
<th>Cat. no. zinc</th>
<th>Cat. no. aluminum</th>
<th>Size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H050TBF</td>
<td>H050TBFA</td>
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<td>H075TBFA</td>
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<td>1(\frac{1}{4})</td>
</tr>
<tr>
<td>H200TBF</td>
<td>H200TBFA</td>
<td>2</td>
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</tbody>
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## Rigid and intermediate metal conduit fittings

### Bulkhead fittings

**Thru-bulkhead hub**

<table>
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<th>Cat. no.</th>
<th>Size (in.)</th>
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<td>H075TBHA</td>
<td>¼</td>
</tr>
<tr>
<td>H100TBH</td>
<td>H100TBHA</td>
<td>1</td>
</tr>
<tr>
<td>H125TBH</td>
<td>H125TBHA</td>
<td>1⅛</td>
</tr>
<tr>
<td>H150TBH</td>
<td>H150TBHA</td>
<td>1¼</td>
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### Trade size (in.)

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<thead>
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<th>Thread (in.)</th>
<th>Height (in.)</th>
<th>Diameter (in.)</th>
<th>Across Flats (in.)</th>
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<td>1⅛</td>
<td>1⅛</td>
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<td>2</td>
<td>1⅛</td>
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<td>1⅛</td>
<td>2</td>
<td>⅜</td>
</tr>
<tr>
<td>1⅛</td>
<td>1⅝</td>
<td>1⅛</td>
<td>2⅛</td>
<td>⅜</td>
</tr>
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<td>2-⅛</td>
<td>1⅛</td>
<td>2⅛</td>
<td>⅜</td>
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<tr>
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<td>2-⅜</td>
<td>2⅛</td>
<td>3⅛</td>
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<td>2⅜</td>
<td>3⅛</td>
<td>3⅛</td>
<td>⅘</td>
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<td>6-8</td>
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<td>7⅛</td>
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</tr>
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</table>

**Material**
- Hub, body and locknut: Zinc or copper-free aluminum
- Insulating throat: Thermoplastic temp. rating 105 °C; flammability rating: 94V-0
- Sealing ring: Nitrile (Buna N)

For chrome-plated bulkhead add suffix CP
Rigid and intermediate metal conduit fittings
XD expansion/deflection couplings for rigid conduit

Watertight, flexible connections support movement and thermal expansion.
Use the XD expansion/deflection coupling to join two conduit runs in applications where movement in any direction is required. The coupling provides a flexible, watertight connection, accommodating axial or parallel movement of up to 3/4 in. and angular movement of up to 30˚ from normal position. While similar fittings exist on the market today, this XD expansion/deflection coupling ships complete with an Erickson® conduit union to significantly reduce installation time and effort and includes a stainless steel inner sleeve for extreme durability, protection and easier wire pulling.

The hubs are zinc-plated and then coated with aluminum acrylic paint for dual-layer corrosion protection. In addition, the copper ground mounting plates and internal grounding bonding jumper are entirely enclosed inside the coupling for added security against vandalism and theft.

- Accommodates axial expansion/contraction up to 3/4 in., parallel deflection up to 3/4 in. and angular misalignment up to 30˚
- Suitable for use indoors, outdoors, direct buried or embedded in concrete
- Watertight, flexible neoprene outer jacket, zinc-plated and acrylic-painted hubs and stainless steel tamper-proof straps ensure superior corrosion resistance – ideal for use in harsh environments
- Copper ground mounting plates and internal grounding bonding jumper both entirely enclosed to safeguard against theft
- Includes an Erickson conduit union for faster, easier installation to reduce labor costs
- Durable stainless steel inner sleeve provides a constant, smooth inner diameter in any position to ease wire pulling and protect wire insulation from damage
- NPT threaded hubs fit standard threaded rigid metal conduit
- Can also be used with rigid PVC conduit with the use of standard adapters (not supplied)

Standard material/finish
- Hub: Ductile cast iron, zinc-plated and aluminum acrylic painted
- Inner sleeve: Stainless steel
- Internal grounding bonding jumper: Flexible copper braid
- Ground mounting plates: Copper
- Hub rings: Zinc-plated steel
- Outer jacket: Molded neoprene (natural black)
- Jacket straps: Stainless steel

Certifications/compliances
- CSA Certified to C22.2 and UL Listed to UL 514B No. 18
- Suitable for wet locations (hub sizes 1 in.–2½ in.)
- Watertight
- NEC Article 250.98 compliant
Rigid and intermediate metal conduit fittings
XD expansion/deflection couplings for rigid conduit

<table>
<thead>
<tr>
<th>Cat. no. (in.)</th>
<th>Hub size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<td>XD3-TB</td>
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<td>8(\frac{3}{4})</td>
<td>6(\frac{3}{8})</td>
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<td>1(\frac{1}{4})</td>
<td>9(\frac{3}{8})</td>
<td>8(\frac{3}{8})</td>
<td>6(\frac{3}{8})</td>
<td>3(\frac{3}{16})</td>
</tr>
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<td>XD5-TB</td>
<td>1(\frac{1}{2})</td>
<td>9(\frac{1}{4})</td>
<td>8(\frac{3}{8})</td>
<td>6(\frac{3}{8})</td>
<td>4(\frac{1}{16})</td>
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<td>7(\frac{3}{8})</td>
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<td>8(\frac{3}{8})</td>
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<td>9(\frac{5}{16})</td>
</tr>
</tbody>
</table>
Rigid and intermediate metal conduit fittings
XJG conduit expansion couplings for rigid conduit

Easy to install – save time and money on the job.
No disassembly required.
Used where:
• Raceways require expansion fittings to compensate for thermal expansion and contraction
• Expansion fittings and telescoping sections of metal raceway must be made electrically continuous by bonding jumpers or other means

Suggested specifications for expansion fittings for rigid steel or intermediate metal conduit.
• Fitting will be constructed from cast iron with exterior and interior zinc plating for corrosion protection
• The fitting shall be constructed so that disassembly is not required during installation
• Fitting shall be rain tight after installation
• The fitting shall have an internal bonding jumper constructed of a copper braid, sized to meet UL fault current test requirements and comply with bonding requirements – CEC article 10-612 and 10-614
• External bonding jumper shall not be required to comply with CEC requirements
• Accepted manufacturer: ABB – XJG-TB Series

Standard material/finish
• Body: Malleable or ductile iron, available PVC coated
• Internal bonding jumper: Copper braid
• Exterior and interior finish: Zinc plating, aluminum acrylic paint
• Packing: PTFE/synthetic fiber material (Teflon coated)

Teflon is a trademark of DuPont.
## Rigid and intermediate metal conduit fittings

XJG conduit expansion couplings for rigid conduit

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Movement (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
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<td>XJG58-TB</td>
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<td>8</td>
<td>3.36</td>
<td>14.56</td>
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</tr>
<tr>
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<td>4</td>
<td>3.86</td>
<td>11.25</td>
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<tr>
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<td>2</td>
<td>8</td>
<td>3.86</td>
<td>15.25</td>
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</tr>
<tr>
<td>XJG74-TB</td>
<td>2⅛</td>
<td>4</td>
<td>4.96</td>
<td>12.12</td>
<td>5.25</td>
</tr>
<tr>
<td>XJG78-TB</td>
<td>2⅛</td>
<td>8</td>
<td>4.96</td>
<td>16.12</td>
<td>5.25</td>
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<td>XJG84-TB</td>
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<td>4</td>
<td>4.96</td>
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<td>8</td>
<td>4.96</td>
<td>16.12</td>
<td>5.25</td>
</tr>
<tr>
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<td>XJG108-TB</td>
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<td>6.75</td>
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<td>8</td>
<td>7.99</td>
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<td>8.56</td>
</tr>
</tbody>
</table>

Also available in Ocal™ PVC coating and for EMT.
Rigid and intermediate metal conduit fittings
XJG-EMT conduit expansion couplings for EMT

Features
- Fast and easy installation – no disassembly required
- No external grounding strap needed – internal bonding jumper is protected from tampering and the environment

Standard material/finish
- Body: Malleable or ductile iron
- Internal bonding jumper: Tinned copper braid
- Exterior and interior finish: Zinc plating, aluminum acrylic paint
- Packing: PTFE/synthetic fiber material

Certifications/compliances
- CSA certified to C22.2 and UL Listed to UL 514B No. 18
- Suitable for wet locations (hub sizes 1 in.–2½ in.)
- NEC Article 250.98 compliant

Note: XJG-EMT couplings are not raintight and are for use in dry locations only. They are UL Listed for use with aluminum EMT.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Movement (in.)</th>
<th>A (length in.)</th>
<th>B (height in.)</th>
</tr>
</thead>
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<tr>
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<td>XJG108-EMT</td>
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<td>8</td>
<td>29.30</td>
<td>6.75</td>
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# Rigid and intermediate metal conduit fittings

## Rigid and capoffs

### Offset reducers

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Height (in.)</th>
<th>Diameter (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H150-075ORGR-TB</td>
<td>1(\frac{1}{4}) – 1(\frac{1}{4})</td>
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</tr>
<tr>
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<td>1(\frac{1}{4}) – 1(\frac{1}{4})</td>
<td>1(\frac{1}{4})</td>
<td>3(\frac{1}{4})</td>
<td>1(\frac{1}{4}) x 3(\frac{1}{4})</td>
</tr>
<tr>
<td>H250-200ORGR-TB</td>
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<td>3(\frac{1}{4})</td>
<td>2(\frac{1}{4}) x 3(\frac{1}{4})</td>
</tr>
</tbody>
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Material – Offset reducer and locknut: Zinc or copper-free aluminum

Insulating throat: Thermoplastic temp. rating 105 °C; flammability rating 94V-0

Sealing ring: Nitrile (Buna N)

For chrome-plated offset reducer add suffix CP (i.e. H150-125ORGRCP-TB)

### Capoffs

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Height (in.)</th>
<th>Diameter (in.)</th>
<th>Dimensions (in.)</th>
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<tbody>
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<td>2(\frac{1}{4})</td>
<td>3(\frac{1}{4})</td>
<td>2(\frac{1}{4}) x 3(\frac{1}{4})</td>
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<td>4(\frac{3}{4})</td>
<td>(\frac{3}{4}) x 4(\frac{3}{4})</td>
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<tr>
<td>H200CAP</td>
<td>3(\frac{1}{2})</td>
<td>3(\frac{1}{4})</td>
<td>5 (\frac{1}{4})</td>
<td>(\frac{3}{4}) x 5 (\frac{1}{4})</td>
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<tr>
<td>H250CAP</td>
<td>4</td>
<td>5 (\frac{1}{4})</td>
<td>6(\frac{1}{4})</td>
<td>4 (\frac{1}{4}) x 6(\frac{1}{4})</td>
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<tr>
<td>H300CAP</td>
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<td>6(\frac{1}{4})</td>
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<td>7(\frac{1}{4})</td>
<td>8(\frac{1}{4})</td>
<td>7(\frac{1}{4}) x 8(\frac{1}{4})</td>
</tr>
</tbody>
</table>

Material – Capoff and locknut: Zinc or copper-free aluminum

Insulating throat: Thermoplastic temp. rating 105 °C; flammability rating 94V-0

Sealing ring: Nitrile (Buna N)

For chrome-plated capoff add suffix CP (i.e. H050CAPCP)
Rigid and intermediate metal conduit fittings
Threadless fittings/couplings for threadless rigid metal conduit and intermediate metal conduit

**Application**
- To connect and effectively bond threadless rigid metal conduit/intermediate metal conduit to a box or enclosure, or to couple ends of threadless conduit

**Features**
- Steel/malleable iron construction
- Case-hardened ring bites into conduit for high quality continuity and grip
- Nylon insulator firmly secured in place protects conductors and reduces wire pulling effort by as much as 50%; prevents thread damage in handling
- Case-hardened steel or malleable iron locknut designed to provide a positive bond
- Suitable for concrete-tight application
- Raintight application
- Capable of carrying ground fault currents up to 10,000 amps RMS (½ in. through 1½ in. size) and 20,000 amps RMS (2 in. and above sizes), duration of current 3 cycles

**Standard material**
- Nut, gland: ½ in. to 1 in. steel, 1¼ in. to 4 in. malleable iron
- Body: All malleable iron
- Ring: Steel (case-hardened)
- Insulator: Nylon
- Locknut: ½ in. through 2 in. steel (hardened) 2 in. through 4 in. malleable iron

**Standard finish**
- Electro zinc plated and chromate coated

**Range**
- 8123 and 8120 Series: ½ in. through 4 in. size conduit
- 8130 Series: ½ in. and ¾ in. size conduit
- All hub threads: Straight pipe (NPS)

**Conformity**
- UL 514B
- CSA C22.2 No. 18.3
- ANSI C80.4
- NFPA 70-2008 (ANSI)
- NEMA FB-1
- Federal Specification W-F-408
- Federal Standard H-28 (Threads)
Rigid and intermediate metal conduit fittings

Threadless fittings

A split steel ring with diagonal serrations grips the conduit and bites into it for positive ground. Makes a permanent connection and eliminates the need for cutting a thread on the conduit. Insulation helps to guarantee continuity of service with protection of the conductor at the critical point – the fitting bushing. Malleable iron construction.

Nylon-insulated threadless fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8123</td>
<td>1⁄4</td>
<td>1 1⁄8, 1 1⁄8</td>
</tr>
<tr>
<td>8223</td>
<td>1⁄2</td>
<td>2, 2</td>
</tr>
<tr>
<td>8323</td>
<td>1</td>
<td>2 1⁄8, 2 1⁄8</td>
</tr>
<tr>
<td>8423</td>
<td>2⁄4</td>
<td>2 1⁄8, 2 1⁄8</td>
</tr>
<tr>
<td>8523</td>
<td>1 1⁄4</td>
<td>2 1⁄4, 2 1⁄4</td>
</tr>
<tr>
<td>8623</td>
<td>2</td>
<td>3 1⁄4, 3 1⁄4</td>
</tr>
<tr>
<td>8723-TB</td>
<td>2 1⁄4</td>
<td>3 1⁄4, 3 1⁄4</td>
</tr>
<tr>
<td>8823-TB</td>
<td>3</td>
<td>4 1⁄8, 4 1⁄8</td>
</tr>
<tr>
<td>8853</td>
<td>3 1⁄8</td>
<td>5 1⁄4, 4</td>
</tr>
<tr>
<td>8973</td>
<td>4</td>
<td>5 1⁄4, 5</td>
</tr>
</tbody>
</table>

Threadless couplings

Eliminate conduit threading. When tightened with a wrench, they make a UL Listed and CSA Certified concrete-tight connection. Malleable iron construction.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
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<td>1 1⁄8</td>
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</tr>
<tr>
<td>8320</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8420</td>
<td>2⁄4</td>
<td>2 1⁄4</td>
<td></td>
</tr>
<tr>
<td>8520</td>
<td>1 1⁄4</td>
<td>2 1⁄4</td>
<td></td>
</tr>
<tr>
<td>8620</td>
<td>2</td>
<td>3 1⁄4</td>
<td></td>
</tr>
<tr>
<td>8720</td>
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<td>8820</td>
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<td>4 1⁄8</td>
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<tr>
<td>8850</td>
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<tr>
<td>8970</td>
<td>4</td>
<td>5 1⁄4</td>
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</tbody>
</table>

Threadless short elbows – Nylon-insulated

Ideal for entering enclosure or conduit body at right angles. Eliminates need to thread conduit. As with straight couplings, this fitting makes a concrete-tight connection. Malleable iron construction.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>8130</td>
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</tr>
<tr>
<td>8131</td>
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<td>8132</td>
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<td>1 1⁄8</td>
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<td>8134</td>
<td>1 1⁄4</td>
<td>2 1⁄8</td>
<td>3 1⁄8</td>
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</tbody>
</table>
Rigid and intermediate metal conduit fittings
Set-screw fittings/couplings for threadless rigid metal conduit and intermediate metal conduit

Application
- To connect and effectively bond threadless rigid metal conduit or intermediate metal conduit to a box or enclosure or to couple ends of threadless conduit

Features
- Thickwall steel or malleable iron body
- Hardened hex head cup point screw to provide high quality bond
- Captive screw, will not vibrate loose
- Nylon-insulated throat meets and exceeds all codes requirements for bushing:
  - (1) Prevents thinning of insulation
  - (2) Reduces installation effort
  - (3) Prevents first thread damage
- Coupling provided with positive center stop
- Suitable for concrete-tight application
- Capable of carrying ground fault currents up to 10,000 amps RMS (¼ through 1½ in. size) and 20,000 amps RMS (2 in. and above sizes)

Standard material
- Body: ¼ in. through 2 in. steel
  - 2½ in. through 4 in. malleable iron
- Locknut: ¼ in. through 2 in. steel (hardened)
  - 2½ in. through 4 in. malleable iron
- Screw: Steel (hardened)
- Insulator: Nylon

Standard finish
- Electro zinc plated and chromate coated

Conformity
- UL 514B
- CSA C22.2 No. 18.3
- ANSI C80.4
- NFPA 70-2008 (ANSI)
- NEMA FB-1
- Federal Specification W-F-408
- Federal Standard H-28 (Threads)
Rigid and intermediate metal conduit fittings
Set-screw fittings/couplings for threadless rigid metal conduit and intermediate metal conduit

Eliminate conduit threading with these set-screw fittings. Captive hex head screws tighten down onto conduit for positive holding strength and ground. The fittings are furnished with insulated throats, reducing wire pulling effort by as much as 50%. Approved concrete-tight.

---

### Insulated set-screw fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>A</th>
<th>B</th>
<th>Dimensions (in.)</th>
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<td>8525-TB</td>
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<td>½₄</td>
</tr>
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<td>3½/₄</td>
<td>½</td>
<td>½₄</td>
</tr>
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<td>½</td>
<td>½</td>
</tr>
<tr>
<td>8825</td>
<td>3</td>
<td>3½/₄</td>
<td>½</td>
<td>½₄</td>
</tr>
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<td>8855</td>
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<tr>
<td>8975</td>
<td>4</td>
<td>4½/₄</td>
<td>½</td>
<td>½₄</td>
</tr>
</tbody>
</table>

Sizes ½ in.–2 in. made of steel. Sizes 2½ in.–4 in. are malleable iron

---

### Set-screw couplings

Eliminate the need for threading conduit ends when joining rigid conduit with these set-screw couplings. Captive hex head screws provide positive holding strength and ground continuity. Approved concrete-tight.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>A</th>
<th>Dimensions (in.)</th>
</tr>
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</tr>
<tr>
<td>8524</td>
<td>1¾</td>
<td>3½/₄</td>
<td>½₄</td>
</tr>
<tr>
<td>8624</td>
<td>2</td>
<td>3¾</td>
<td>½₄</td>
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<td>½₄</td>
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<td>8824-TB</td>
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<td>½₄</td>
</tr>
<tr>
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<td>5½</td>
<td>½₄</td>
</tr>
</tbody>
</table>

Sizes ½ in.–2 in. made of steel; sizes 2½ in.–4 in. are malleable iron
### Rigid and intermediate metal conduit fittings

#### Elbows

The non-insulated elbow has smoothly rounded shoulders to protect conductor insulation. Malleable iron.

**Bushed elbows**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Dimensions (in.)</th>
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</thead>
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<td>1/4</td>
<td>1/4</td>
<td>1 1/8</td>
</tr>
<tr>
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<td>4/8</td>
<td>2 1/8</td>
</tr>
<tr>
<td>463</td>
<td>1 1/4</td>
<td>3 3/8</td>
<td>2 1/4</td>
<td>5/8</td>
<td>3 3/8</td>
</tr>
</tbody>
</table>

**Short elbows – Nylon-Insulated**

The integral insulation of the insulated elbow is a guarantee that the bushing of every fitting will be smooth. Malleable iron.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Dimensions (in.)</th>
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</table>

Not UL Listed

When an insulated elbow is not desired, the non-insulated short elbow should be used. Malleable iron.

**Short elbows**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<td>4/8</td>
<td>1 3/8</td>
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<tr>
<td>4254</td>
<td>1 1/2</td>
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<td>2 1/4</td>
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<tr>
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<td>2 3/8</td>
<td>4/8</td>
<td>3 3/8</td>
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Rigid and intermediate metal conduit fittings
Threaded (ERICKSON®) couplings for threaded rigid metal conduit and intermediate metal conduit

Application
- To couple and effectively bond threaded ends of rigid metal conduit/intermediate metal conduit where neither length of conduit can be rotated

Features
- Malleable Iron/steel/copper-free aluminum construction
- Free-fitting threads ensure easy assembly
- Permits conduit coupling without rotating either conduit
- Provides rigid in-line coupling with high quality grounding; will not loosen under vibration
- Suitable for concrete-tight application.
- Capable of carrying ground fault currents up to 10,000 amps RMS (¼ in. through 1¼ in. size) and up to 20,000 amps RMS (2 in. and above) (duration of fault current 3 cycles) (674 series tested)

Standard material
674 Series
- Bushing and body: malleable iron
- Ring: steel up to 2 in. or malleable iron

675AL Series
- Bushing and body: aluminum
- Ring: aluminum

Standard finish
- 674 Series: Electro zinc plated and chromate coated
- 675AL Series: Degreased

Range
- 674 Series: ¼ in. through 6 in. conduit
- 675AL Series: ½ in. through 6 in. conduit
- All straight pipe threads (NPS)

Conformity
- UL 514B
- CSA C22.2 No. 18.3
- NEMA FB1
- ANSI C80.4
- NFPA 70-2008 (ANSI)
- Federal Specification W-F-408
- Federal Standard H-28 (Threads)

With an ERICKSON coupling, a conduit run may be completed when neither conduit can be turned. A conduit run may also be broken without taking down the whole run. Conduit joined with ERICKSON couplings is rigid and in line, and vibration will not loosen the connections.

---

Rigid and intermediate metal conduit fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Dimensions (in.)</th>
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<tr>
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<td>Diagram</td>
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<td>675</td>
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<td>677AL</td>
<td>1</td>
</tr>
<tr>
<td>678</td>
<td>678AL</td>
<td>1¼</td>
</tr>
<tr>
<td>679</td>
<td>679AL</td>
<td>1½</td>
</tr>
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<td>680AL</td>
<td>2</td>
</tr>
<tr>
<td>681</td>
<td>681AL</td>
<td>2⅛</td>
</tr>
<tr>
<td>682</td>
<td>682AL</td>
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<td>683AL</td>
<td>3¼</td>
</tr>
<tr>
<td>684</td>
<td>684AL</td>
<td>4</td>
</tr>
<tr>
<td>685</td>
<td>685AL†</td>
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<td>5</td>
</tr>
<tr>
<td>687</td>
<td>687AL</td>
<td>6</td>
</tr>
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</table>

* Copper-free aluminum (less than 0.4% copper)
UL Listed and CSA Certified concrete-tight† Not CSA Certified
Rigid and intermediate metal conduit fittings
Extensions and enlargers

Ideal when longer thread length is needed. Will combine with any fitting having a male thread. Male thread of panel fitting extension is 1 in. long. Malleable iron.

### Panel fitting extensions

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
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<th>B</th>
<th>C</th>
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<tbody>
<tr>
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<td>⅛</td>
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<tr>
<td>1442</td>
<td>⅜</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>1443</td>
<td>⅜</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
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</table>

Adapt an outlet hole to the next larger size of conduit. Rough ends of conduit carefully covered by built-in bushing. Malleable Iron.

### Male enlargers

<table>
<thead>
<tr>
<th>Cat. no.</th>
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<td>⅛</td>
<td>⅛</td>
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<tr>
<td>1244</td>
<td>⅜</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>1247</td>
<td>⅜</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
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</table>

Malleable iron.
Rigid and intermediate metal conduit fittings

Reducers

Adapt an outlet hole to the next larger size of conduit. Rough ends of conduit carefully covered by built-in bushing. Malleable Iron.

---

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>Diagram</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1250-TB</td>
<td>¾–½</td>
<td>1½</td>
<td>½</td>
<td>½a</td>
</tr>
<tr>
<td>1251</td>
<td>1–¼</td>
<td>1½</td>
<td>½a</td>
<td>½a</td>
</tr>
<tr>
<td>1262</td>
<td>1¼–½</td>
<td>1½a</td>
<td>½a</td>
<td>½a</td>
</tr>
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<td>1263</td>
<td>1¼–¾</td>
<td>1½a</td>
<td>½a</td>
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</tr>
<tr>
<td>1253</td>
<td>1½–1½</td>
<td>2</td>
<td>½a</td>
<td>½a</td>
</tr>
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<td>1254</td>
<td>2–1½</td>
<td>2¼</td>
<td>1½a</td>
<td>½a</td>
</tr>
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<td>1257</td>
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<td>1258</td>
<td>4–3½</td>
<td>4½</td>
<td>1½a</td>
<td>½a</td>
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</table>

---

Female reducers

For reducing the threaded opening in conduit bodies or any female threaded fitting. Smooth, built-in bushing completely covers rough ends of conduit. Iron or steel construction. Steel from 600-TB through 606-TB, also 614 and 615.

---

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
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<th>Dimensions (in.)</th>
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<td>Diagram</td>
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</tr>
<tr>
<td>600-TB</td>
<td>½–¾</td>
<td>¾a</td>
<td></td>
<td>¾a</td>
</tr>
<tr>
<td>601-TB</td>
<td>¾–¾½</td>
<td>¾a</td>
<td></td>
<td>¾a</td>
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<tr>
<td>604-TB</td>
<td>1½–1¼</td>
<td>1½a</td>
<td></td>
<td>1½a</td>
</tr>
<tr>
<td>605-TB</td>
<td>1½–¾¼</td>
<td>1½a</td>
<td></td>
<td>1½a</td>
</tr>
<tr>
<td>606-TB</td>
<td>1½–1¼</td>
<td>1½a</td>
<td></td>
<td>1½a</td>
</tr>
<tr>
<td>607</td>
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<td>½a</td>
<td></td>
<td>½a</td>
</tr>
<tr>
<td>608</td>
<td>1½–¾½</td>
<td>½a</td>
<td></td>
<td>½a</td>
</tr>
<tr>
<td>609</td>
<td>1½–½</td>
<td>½a</td>
<td></td>
<td>½a</td>
</tr>
<tr>
<td>610</td>
<td>1½–1½</td>
<td>½a</td>
<td></td>
<td>½a</td>
</tr>
<tr>
<td>611-TB</td>
<td>2–½</td>
<td>½a</td>
<td></td>
<td>½a</td>
</tr>
<tr>
<td>612</td>
<td>2–¼</td>
<td>½a</td>
<td></td>
<td>½a</td>
</tr>
<tr>
<td>613</td>
<td>2–1</td>
<td>½a</td>
<td></td>
<td>½a</td>
</tr>
<tr>
<td>614-TB</td>
<td>2–1¾</td>
<td>½a</td>
<td></td>
<td>½a</td>
</tr>
<tr>
<td>615-TB</td>
<td>2–1½</td>
<td>½a</td>
<td></td>
<td>½a</td>
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</tbody>
</table>

---

Threaded reducers

For reducing the threaded opening in conduit bodies or any female threaded fitting. Smooth, built-in bushing completely covers rough ends of conduit. Iron or steel construction. Steel from 600-TB through 606-TB, also 614 and 615.
Reducing washers

Washers reduce knockout hole in outlet box. Newly designed of galvanized steel. These washers, used in pairs, interlock and form a rib that centers the washers and conduit in the knockout.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
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<td>1/4</td>
<td>4/32</td>
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<td>1/4</td>
<td>1/8</td>
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<td>1–7/8</td>
<td>1/4</td>
<td>13/32</td>
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<td>4/32</td>
</tr>
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<td>3706</td>
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<td>2</td>
<td>13/32</td>
</tr>
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<td>4/32</td>
</tr>
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<td>1/8</td>
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</table>
Rigid and intermediate metal conduit fittings
Conduit straps for threaded rigid metal conduit and intermediate metal conduit

Application
- To support and securely fasten rigid metal conduit and intermediate metal to the supporting surface

Features
- Rugged malleable iron/copper-free aluminum construction – snugly fits on the conduit
- Designed to prevent accumulation of moisture and start of corrosion on vertical run of conduit (A)

Standard material
1275 Series
- Malleable Iron
1976AL Series
- All copper-free aluminum

Standard finish
1275 Series
- Hot dipped galvanized
1276AL Series
- As cast

Range
- 1275 Series
  - ⅜ in. through 6 in. conduit
- 1276AL Series
  - ½ in. through 6 in. conduit

Conformity
- CSA C22.2 No. 18.3
- ANSI C80.4
- NFPA 70-2008 (ANSI)

Pipe straps – Malleable iron or aluminum

<table>
<thead>
<tr>
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<th>Mal. iron</th>
<th>Alum.</th>
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<th>B</th>
<th>C</th>
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<td>⅛</td>
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<td>1276AL</td>
<td>⅜</td>
<td>2⅛⅛</td>
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<td>⅛</td>
<td></td>
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</tr>
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<td>1277AL</td>
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<td>⅛</td>
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<td>1286AL**</td>
<td>4⅝</td>
<td>9⅛⅛</td>
<td>⅛</td>
<td>⅛</td>
<td></td>
<td>⅛</td>
</tr>
<tr>
<td>1287</td>
<td>1287AL</td>
<td>5</td>
<td>9⅛⅛</td>
<td>2</td>
<td>⅛</td>
<td></td>
<td>⅛</td>
</tr>
<tr>
<td>1288</td>
<td>1288AL</td>
<td>6</td>
<td>11⅛⅛</td>
<td>2</td>
<td>⅛</td>
<td></td>
<td>⅛</td>
</tr>
</tbody>
</table>

* May be used with EMT of same size
† Not snap-on type
UL not applicable
** Not CSA Certified

Diagram

Designed to fit each size of conduit snugly. High reinforcing ribs on each side increase strength, reduce weight. Hot-dipped galvanized finish.
# Rigid and intermediate metal conduit fittings

Conduit straps for threaded rigid metal conduit and intermediate metal conduit

Elongated bolt hole makes alignment easy, even when holes in mounting surface are off center. Snap-on features. Steel. Zinc plated.

## Pipe straps – Steel

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Dimensions (in.)</th>
<th>Screw size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagram</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1210C†</td>
<td>3⁄32</td>
<td>1⁄16</td>
<td>1⁄8</td>
</tr>
<tr>
<td>1211C</td>
<td>¹⁄₈</td>
<td>2</td>
<td>1⁄₈</td>
</tr>
<tr>
<td>1212C</td>
<td>¹⁄₄</td>
<td>²⁄₃₂</td>
<td>⁴⁄₈</td>
</tr>
<tr>
<td>1213C</td>
<td>1</td>
<td>³⁄₁₆</td>
<td>³⁄₈</td>
</tr>
<tr>
<td>1214TB*</td>
<td>1¹⁄₄</td>
<td>²⁄₃₂</td>
<td>⁴⁄₈</td>
</tr>
<tr>
<td>1215TB*</td>
<td>1¹⁄₄</td>
<td>³⁄₈₆</td>
<td>²⁄₈</td>
</tr>
<tr>
<td>1216TB*</td>
<td></td>
<td>²⁄₄</td>
<td>²⁄₄</td>
</tr>
</tbody>
</table>

† Not snap-on type
UL not applicable
* Not CSA Certified

Malleable iron. Designed to fit each size of conduit snugly. High reinforcing ribs on each side increase strength, reduce weight.

## Corrosion-resistant PVC-coated rigid conduit straps

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Bolt size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagram</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1275CR</td>
<td>3⁄₃₂</td>
<td>¹⁄₄</td>
<td>2</td>
</tr>
<tr>
<td>1276CR</td>
<td>¹⁄₈</td>
<td>¹⁄₄</td>
<td>²⁄₃₂</td>
</tr>
<tr>
<td>1277CR</td>
<td>³⁄₄</td>
<td>¹⁄₄</td>
<td>²⁄₄</td>
</tr>
<tr>
<td>1278CR</td>
<td>1</td>
<td>¹⁄₄</td>
<td>³⁄₈</td>
</tr>
<tr>
<td>1279CR</td>
<td>¹¹⁄₄</td>
<td>¹⁄₄</td>
<td>⁴⁄₃₂</td>
</tr>
<tr>
<td>1280CR</td>
<td>¹¹⁄₄</td>
<td>¹⁄₄</td>
<td>⁴⁄₃₂</td>
</tr>
<tr>
<td>1281CR</td>
<td>²</td>
<td>⁵⁄₈</td>
<td>¹⁴⁄₃₂</td>
</tr>
</tbody>
</table>

UL not applicable
Rigid and intermediate metal conduit fittings
Conduit spacers for rigid metal conduit, intermediate metal conduit and electrical metal tubing

**Application**
- Provides mounting surface for conduit where installation requires air space between conduit and supporting surface

**Features**
- Prevents conduit rusting from wall condensation
- Spacers can be stacked one atop the other, facilitating installation and eliminating expensive conduit off setting (A)
- Designed to cover wide range; marked with accurate size marking for proper positioning (B)

**Standard material**
**1350 Series**
- Malleable Iron

**1350AL Series**
- Copper-free aluminum

**Standard finish**
**1350 Series**
- Hot-dipped galvanized

**1350AL Series**
- As cast

**Range**
- ¼ in. through 6 in. conduit

**Conformity**
- CSA C22.2 No. 18.3
- ANSI C80.4
- NFPA 70-2008 (ANSI)

**Diagrams**
- (A)
- (B)
Rigid and intermediate metal conduit fittings

Conduit spacers for rigid metal conduit, intermediate metal conduit and electrical metal tubing

Used with conduit straps to permit space between conduit and mounting surface. Eliminates need for costly offset-bending conduit and possible corrosive moisture traps when conduit is mounted directly to a surface. Hot-dipped galvanized finish, premountable and stackable to eliminate offsetting.

### Pipe spacers

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Screw size</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mal. Iron</td>
<td>Alum.</td>
<td>Size (in.)</td>
<td>A</td>
</tr>
<tr>
<td>Diagram</td>
<td>1350</td>
<td>1350AL</td>
<td>3⁄8, 3⁄8, 1</td>
</tr>
<tr>
<td></td>
<td>1351</td>
<td>1351AL</td>
<td>1¼–1½–2</td>
</tr>
<tr>
<td></td>
<td>1352</td>
<td>1352AL</td>
<td>2¼–3</td>
</tr>
<tr>
<td></td>
<td>1353</td>
<td>1353AL</td>
<td>3½–4</td>
</tr>
</tbody>
</table>

Conforms to CEC Rule 12-012 (5)
UL not applicable

Corrosion-resistant PVC-coated malleable iron. Pre-mountable, stackable to eliminate offsetting. Spacers can be stacked for offsets on wall or into outlet box.

Prevents conduit rusting from wall condensation. Eliminates offsetting of conduit.

### Pipe spacers – PVC coated

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Screw size</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1350CR</td>
<td>¼–⅜–1</td>
<td>#7</td>
</tr>
<tr>
<td></td>
<td>1351CR</td>
<td>1¼–1½–2</td>
<td>#12</td>
</tr>
<tr>
<td></td>
<td>1352CR</td>
<td>2¼–3</td>
<td>#12</td>
</tr>
<tr>
<td></td>
<td>1353CR</td>
<td>3½–4</td>
<td>#14</td>
</tr>
</tbody>
</table>

Conforms to CEC Rule 12-012 (5)
UL not applicable
Rigid and intermediate metal conduit fittings
Couplings, beam clamps and conduit supports

A one-piece fitting that couples armoured cable or flexible conduit to threaded rigid conduit. Tite-Bite® wedge holds conduit securely with a double grip. With a Chase nipple, this fitting will connect flexible conduit to outlet boxes, allowing more wiring space in the box than the usual fitting. Malleable iron.

Tite-Bite combination couplings – Armoured cable to threaded rigid

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>A</th>
<th>B</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>440</td>
<td>¼</td>
<td>1¼</td>
<td>1⅜</td>
<td></td>
</tr>
<tr>
<td>441</td>
<td>⅜</td>
<td>1¾</td>
<td>2⅛</td>
<td></td>
</tr>
<tr>
<td>442</td>
<td>1</td>
<td>2</td>
<td>2⅜</td>
<td></td>
</tr>
</tbody>
</table>

Steel. Includes bolts.

Beam clamps – Adjustable

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>700TB</td>
<td>Fits flange 2⅛ in. –7⅜ in.</td>
</tr>
<tr>
<td>703*</td>
<td>Special bolt and 3 nuts</td>
</tr>
</tbody>
</table>

* Not CSA Certified

These supports will fit any flange, tapered or straight up to ⅝ in. thick. The broad hook holds the conduit at any desired angle. Holds standard rigid conduit, EMT, or IMC. Malleable iron.

Conduit supports

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>690TB</td>
<td>⅝</td>
</tr>
<tr>
<td>691TB</td>
<td>⅞</td>
</tr>
<tr>
<td>692TB</td>
<td>1</td>
</tr>
<tr>
<td>693TB</td>
<td>1⅛</td>
</tr>
</tbody>
</table>
Stainless steel conduit and fittings

Stainless steel conduit

Withstand corrosive environments and meet stringent sanitary requirements.

For corrosion-resistant electrical conduit systems, stainless steel offers value and performance that’s hard to match, combining high corrosion, chemical and temperature resistance with strength, durability, ease of installation and low maintenance. Compared to standard galvanized steel conduit in corrosive environments, type 304 stainless steel offers up to five times the lifespan, while type 316 offers up to eight times the lifespan. Because it is very easy to clean and its surface has no pores or cracks to harbor bacteria and other impurities, stainless steel also provides one of the most hygienic surfaces.

- Available in both type 304 and marine-grade type 316 stainless steel
- Features standard NPT threads for easy installation

- Each 10-ft. length of conduit ships with one stainless steel coupling included
- Couplings also sold separately
- Exceeds requirements for washdown applications
- Food- and potable water-safe
- Satisfies plant-cleanliness mandates from HACCP, FDA and various state agencies
- Meets ASTM A-321/SA-312 Standards
- UL/cUL Listed

Typical applications

- Petrochemical refining/processing
- Water and wastewater treatment
- Food and beverage processing
- Marine and coastal facilities
- Pharmaceutical manufacturing
- Pulp and paper processing
- Other applications in corrosive environments or with strict hygiene requirements

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Weight (lbs./ft.)</th>
<th>Std. pkg. qty. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 304 stainless steel conduit with coupling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COND1/2SS</td>
<td>1⁄2</td>
<td>0.82</td>
<td>1,500</td>
</tr>
<tr>
<td>COND3/4SS</td>
<td>3⁄4</td>
<td>1.09</td>
<td>1,000</td>
</tr>
<tr>
<td>COND1SS</td>
<td>1</td>
<td>1.61</td>
<td>700</td>
</tr>
<tr>
<td>COND11/4SS</td>
<td>11⁄4</td>
<td>2.18</td>
<td>350</td>
</tr>
<tr>
<td>COND11/2SS</td>
<td>1½</td>
<td>2.63</td>
<td>300</td>
</tr>
<tr>
<td>COND2SS</td>
<td>2</td>
<td>3.50</td>
<td>200</td>
</tr>
<tr>
<td>COND21/2SS</td>
<td>2½</td>
<td>5.59</td>
<td>120</td>
</tr>
<tr>
<td>COND3SS</td>
<td>3</td>
<td>7.27</td>
<td>90</td>
</tr>
<tr>
<td>COND4SS</td>
<td>4</td>
<td>10.08</td>
<td>40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Weight (lbs./ft.)</th>
<th>Std. pkg. qty. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 316 stainless steel conduit with coupling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COND1/2SST</td>
<td>1⁄2</td>
<td>0.82</td>
<td>1,500</td>
</tr>
<tr>
<td>COND3/4SST</td>
<td>3⁄4</td>
<td>1.09</td>
<td>1,000</td>
</tr>
<tr>
<td>COND1SST</td>
<td>1</td>
<td>1.61</td>
<td>700</td>
</tr>
<tr>
<td>COND11/4SST</td>
<td>11⁄4</td>
<td>2.18</td>
<td>350</td>
</tr>
<tr>
<td>COND11/2SST</td>
<td>1½</td>
<td>2.63</td>
<td>300</td>
</tr>
<tr>
<td>COND2SST</td>
<td>2</td>
<td>3.50</td>
<td>200</td>
</tr>
<tr>
<td>COND21/2SST</td>
<td>2½</td>
<td>5.59</td>
<td>120</td>
</tr>
<tr>
<td>COND3SST</td>
<td>3</td>
<td>7.27</td>
<td>90</td>
</tr>
<tr>
<td>COND4SST</td>
<td>4</td>
<td>10.08</td>
<td>40</td>
</tr>
</tbody>
</table>

Note: Conduit sold in 10-ft. lengths. Each 10-ft. length ships with one coupling.
### Stainless steel conduit and fittings

**Stainless steel couplings and nipples**

- **Withstand corrosive environments and meet stringent sanitary requirements.**

#### Stainless steel couplings – Type 304

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Weight (lbs./ea.)</th>
<th>Std. pkg. qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPL1/2SS</td>
<td>½</td>
<td>0.22</td>
<td>100</td>
</tr>
<tr>
<td>CPL3/4SS</td>
<td>¾</td>
<td>0.28</td>
<td>50</td>
</tr>
<tr>
<td>CPL1SS</td>
<td>1</td>
<td>0.39</td>
<td>30</td>
</tr>
<tr>
<td>CPL11/4SS</td>
<td>1¼</td>
<td>0.55</td>
<td>25</td>
</tr>
<tr>
<td>CPL11/2SS</td>
<td>1½</td>
<td>0.77</td>
<td>25</td>
</tr>
<tr>
<td>CPL2SS</td>
<td>2</td>
<td>1.10</td>
<td>20</td>
</tr>
<tr>
<td>CPL21/2SS</td>
<td>2½</td>
<td>2.09</td>
<td>12</td>
</tr>
<tr>
<td>CPL3SS</td>
<td>3</td>
<td>3.15</td>
<td>16</td>
</tr>
<tr>
<td>CPL4SS</td>
<td>4</td>
<td>4.29</td>
<td>10</td>
</tr>
<tr>
<td>CPL5SS</td>
<td>5</td>
<td>7.70</td>
<td>4</td>
</tr>
<tr>
<td>CPL6SS</td>
<td>6</td>
<td>10.15</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Stainless steel couplings – Type 316

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Weight (lbs./ea.)</th>
<th>Std. pkg. qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPL1/2SST</td>
<td>½</td>
<td>0.17</td>
<td>100</td>
</tr>
<tr>
<td>CPL3/4SST</td>
<td>¾</td>
<td>0.29</td>
<td>50</td>
</tr>
<tr>
<td>CPL1SST</td>
<td>1</td>
<td>0.34</td>
<td>30</td>
</tr>
<tr>
<td>CPL11/4SST</td>
<td>1¼</td>
<td>0.37</td>
<td>25</td>
</tr>
<tr>
<td>CPL11/2SST</td>
<td>1½</td>
<td>0.61</td>
<td>25</td>
</tr>
<tr>
<td>CPL2SST</td>
<td>2</td>
<td>0.90</td>
<td>20</td>
</tr>
<tr>
<td>CPL21/2SST</td>
<td>2½</td>
<td>1.87</td>
<td>12</td>
</tr>
<tr>
<td>CPL3SST</td>
<td>3</td>
<td>1.93</td>
<td>16</td>
</tr>
<tr>
<td>CPL4SST</td>
<td>4</td>
<td>3.97</td>
<td>10</td>
</tr>
<tr>
<td>CPL5SST</td>
<td>5</td>
<td>7.70</td>
<td>4</td>
</tr>
<tr>
<td>CPL6SST</td>
<td>6</td>
<td>10.15</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Conduit Nipples

- **Type 304 Stainless Steel Nipples**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Length (in.)</th>
<th>Weight (lbs./ea.)</th>
<th>Std. pkg. qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPL1/2X12SS</td>
<td>½</td>
<td>12</td>
<td>0.79</td>
<td>25</td>
</tr>
<tr>
<td>NPL3/4X12SS</td>
<td>¾</td>
<td>12</td>
<td>1.05</td>
<td>25</td>
</tr>
<tr>
<td>NPL1X12SS</td>
<td>1</td>
<td>12</td>
<td>1.54</td>
<td>20</td>
</tr>
<tr>
<td>NPL11/4X12SS</td>
<td>1¼</td>
<td>12</td>
<td>2.02</td>
<td>16</td>
</tr>
<tr>
<td>NPL11/2X12SS</td>
<td>1½</td>
<td>12</td>
<td>2.49</td>
<td>8</td>
</tr>
<tr>
<td>NPL2X12SS</td>
<td>2</td>
<td>12</td>
<td>3.30</td>
<td>9</td>
</tr>
</tbody>
</table>

- **Type 316 Stainless Steel Nipples**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Length (in.)</th>
<th>Weight (lbs./ea.)</th>
<th>Std. pkg. qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPL1/2X12SS</td>
<td>½</td>
<td>12</td>
<td>0.79</td>
<td>25</td>
</tr>
<tr>
<td>NPL3/4X12SS</td>
<td>¾</td>
<td>12</td>
<td>1.05</td>
<td>25</td>
</tr>
<tr>
<td>NPL1X12SS</td>
<td>1</td>
<td>12</td>
<td>1.54</td>
<td>20</td>
</tr>
<tr>
<td>NPL11/4X12SS</td>
<td>1¼</td>
<td>12</td>
<td>2.02</td>
<td>16</td>
</tr>
<tr>
<td>NPL11/2X12SS</td>
<td>1½</td>
<td>12</td>
<td>2.49</td>
<td>8</td>
</tr>
<tr>
<td>NPL2X12SS</td>
<td>2</td>
<td>12</td>
<td>3.30</td>
<td>9</td>
</tr>
</tbody>
</table>
Stainless steel conduit and fittings

Stainless steel elbows

Withstand corrosive environments and meet stringent sanitary requirements.

---

**Standard radius elbows 90°**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade size (in.)</th>
<th>Radius “R”</th>
<th>Offset “C”</th>
<th>Straight end “D”</th>
<th>Weight (lbs./ea.)</th>
<th>Std. pkg. qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type 304 stainless steel elbows</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELL1/2SS</td>
<td>¹⁄₂</td>
<td>4</td>
<td>5.50</td>
<td>1.50</td>
<td>0.64</td>
<td>25</td>
</tr>
<tr>
<td>ELL3/4SS</td>
<td>¾</td>
<td>4.5</td>
<td>6.00</td>
<td>1.50</td>
<td>0.92</td>
<td>25</td>
</tr>
<tr>
<td>ELL1SS</td>
<td>1</td>
<td>5.75</td>
<td>7.63</td>
<td>1.88</td>
<td>1.69</td>
<td>20</td>
</tr>
<tr>
<td>ELL11/4SS</td>
<td>1¼</td>
<td>7.25</td>
<td>9.25</td>
<td>2.00</td>
<td>2.66</td>
<td>8</td>
</tr>
<tr>
<td>ELL11/2SS</td>
<td>1½</td>
<td>8.25</td>
<td>10.25</td>
<td>2.00</td>
<td>3.67</td>
<td>8</td>
</tr>
<tr>
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*Minimum

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Diagram

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* Minimum
Stainless steel conduit and fittings
Stainless steel elbows

Withstand corrosive environments and meet stringent sanitary requirements.

---

### Standard radius elbows 45°

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<th>Cat. no.</th>
<th>Trade size (in.)</th>
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<th>Weight (lbs./ea.)</th>
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<th>Std. pkg. qty.</th>
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<th>Std. pkg. qty.</th>
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* Minimum

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Diagram
**Couplings and accessories**

Stainless steel drain adapter and ball valve

In the electrical system of a food and beverage facility and elsewhere, the T&B® Fittings stainless steel drain adapter provides the means to drain accumulated moisture or small debris from stainless steel electrical enclosures for non-threaded connections.

- The drain adapter and ball valve are NSF certified for food and beverage applications
- When the drain adapter is used in conjunction with the ball valve, the assembly offers a UL type 4X rating and is suitable for washdown areas
- The adapter and valve are both constructed of type 316 stainless steel for superior corrosion resistance
- The innovative, compact body design and special-grade silicone gasket make the drain adapter suitable for installation in tight spaces and on curved surfaces

**Certifications**

- cULus listed type 4X when the ball valve is assembled to the drain adapter
- NSF certified per NSF/ANSI standard 169
- Manufactured with FDA-approved materials

### Stainless steel drain adapter and ball valve

<table>
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<td>Ball valve</td>
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Conduit bodies and covers

Overview

Application
Conduit bodies are installed in conduit systems to:
- Connect conduit sections
- Act as pull outlets when conductors are being installed
- Provide easy access for splices in branch conductors
- Make 90° bends in conduit runs
- Provide access to conductors for maintenance and future system changes

Features
- Standard features include tapered (NPT) threads and integral bushings to protect wire insulation
- T&B Fittings form 7 bodies and covers are interchangeable with other manufacturers’ form 7 bodies and covers
- T&B Fittings form 8 bodies and covers are interchangeable with other manufacturers’ Form 8 bodies and covers
- T&B Fittings form 9 bodies and covers are interchangeable with other manufacturers’ Form 9 bodies and covers (Mark 9, FM 9)
- T&B Fittings form 7 and form 8 cast iron bodies feature BlueKote® internal coating for easier wire pulling
- Form 9 aluminum sand-cast copper-free aluminum alloy
- T&B Fittings series 35 bodies and covers are interchangeable with other manufacturers’ 35/5 series iron and steel bodies and covers
- Form 7 sand cast aluminum is made with a special aluminum alloy, providing superior corrosion resistance as cast; no protective coatings needed
- Special sand cast aluminum alloy makes these conduit bodies ideal for use in food and beverage, pharmaceutical, chemical processing and other corrosive environments
- All form 7 and form 8 covers include gaskets

Materials
- Form 7, form 8 and series 35 iron conduit bodies: Sand-cast class 30 gray iron alloy
- Form 9 aluminum: Sand-cast copper-free aluminum alloy
- Stainless steel conduit bodies: Type 316 stainless steel
- Form 7 aluminum: Sand-cast CorroStall™ aluminum alloy
- Covers: Sand-cast gray iron alloy and stamped sheet steel with steel-stainless steel screws
- Stainless steel covers: Stamped type 316 stainless steel with stainless steel screws
- Gaskets: Neoprene
- Aluminum covers: Sand-cast CorroStall aluminum alloy or sheet aluminum with stainless steel screws, aluminum clips and stainless steel and neoprene O-ring washer

Finish
- Form 7, form 8 and series 35 iron conduit bodies: Zinc-plating with aluminum acrylic coating
- Form 7 and form 8 iron bodies: Internal PTFE-based BlueKote coating
- Covers: Gray iron zinc-plating with aluminum acrylic coating, and stamped steel zinc-plating with clear chromate coating; form 7 and form 8 covers include neoprene gasket
- Form 9 aluminum covers: Stamped copper-free aluminum sheet with stainless steel screws
- Stainless steel bodies and covers: Polished
- Aluminum bodies and covers: As cast/natural

Listings/compliances
- UL Standard: 514A, 514B
- Fed. Spec: W-C-586D
- CSA Standard: C22.2 No. 18
# Conduit bodies and covers

Quick reference

## Conduit bodies quick reference

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* ½” through 1½” have (2) mounting holes; 1½” through 4” have (4) mounting holes

** With covers, gaskets and screws
## Conduit bodies and covers

Quick reference

### Conduit bodies quick reference (continued)

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* ⁵⁄₈" through 1⁷⁄₈" have (2) mounting holes; 1⅓" through 4" have (4) mounting holes
** With covers, gaskets and screws
### Conduit bodies and covers

#### Covers and gaskets

#### Replacement covers and gaskets

<table>
<thead>
<tr>
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* Form 7 and Form 8 covers include gasket.

** For Form 9 aluminum cover including gasket, replace suffix SA with GSA (Example : 190GSA)

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* Form 7 and Form 8 covers include gasket.

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* For ordering purposes, please use GASK in the catalog number (Example: GASK 571).
Conduit bodies and covers
Type 316 stainless steel form 8

Each conduit outlet body ships complete with gasket, cover and screws.

---

**LU Form 8 conduit bodies with covers**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Dimensions (in.)</th>
<th>Cu. in.</th>
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<td>LU18SST</td>
<td>½ 6.210</td>
<td>1.450 3.825 1.125</td>
<td>4.320 3.700 5.5</td>
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<td>LU28SST</td>
<td>¾ 6.981</td>
<td>1.645 4.245 1.500</td>
<td>4.921 4.300 8.5</td>
</tr>
<tr>
<td>LU38SST</td>
<td>1 8.261</td>
<td>1.850 5.050 1.700</td>
<td>5.625 5.000 14.5</td>
</tr>
<tr>
<td>LU48SST</td>
<td>1¼ 9.923</td>
<td>2.200 5.975 2.200</td>
<td>6.730 5.810 26.5</td>
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<tr>
<td>LU58SST</td>
<td>1½ 11.549</td>
<td>2.813 7.000 2.450</td>
<td>7.938 7.125 45.0</td>
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</table>

**Diagrams**

---

**LB Form 8 conduit bodies with covers**

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<th>Dimensions (in.)</th>
<th>Cu. in.</th>
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<td>LB18SST</td>
<td>½ 5.070</td>
<td>1.450 2.250 1.150</td>
<td>4.320 3.700 5.8</td>
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<tr>
<td>LB28SST</td>
<td>¾ 5.671</td>
<td>1.645 2.530 1.400</td>
<td>4.921 4.300 8.0</td>
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<tr>
<td>LB38SST</td>
<td>1 6.563</td>
<td>1.850 2.913 1.750</td>
<td>5.625 5.000 13.0</td>
</tr>
<tr>
<td>LB48SST</td>
<td>1¼ 7.734</td>
<td>2.200 3.315 2.200</td>
<td>6.730 5.810 23.0</td>
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<tr>
<td>LB58SST</td>
<td>1½ 8.992</td>
<td>2.813 3.800 2.450</td>
<td>7.938 7.125 44.0</td>
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<tr>
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<td>2 11.000</td>
<td>3.820 4.810 2.900</td>
<td>9.797 9.125 88.0</td>
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<tr>
<td>LB78SST</td>
<td>2½ 14.098</td>
<td>6.136 5.000 4.250</td>
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**Diagrams**

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**T Form 8 conduit bodies with covers**

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<th>Cu. in.</th>
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<td>1.850 2.850 1.750</td>
<td>5.625 5.000 13.5</td>
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<tr>
<td>T48SST</td>
<td>1¼ 8.738</td>
<td>2.200 2.950 2.200</td>
<td>6.730 5.810 24.0</td>
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<tr>
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**Diagrams**

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**TB Form 8 conduit bodies with covers**

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<th>Hub size (in.)</th>
<th>Dimensions (in.)</th>
<th>Cu. in.</th>
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<td>1.450 2.250 1.150</td>
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<tr>
<td>TB28SST</td>
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<td>4.921 4.300 9.0</td>
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<td>TB38SST</td>
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<td>2 12.129</td>
<td>3.820 4.810 2.900</td>
<td>9.797 9.125 88.0</td>
</tr>
</tbody>
</table>

**Diagrams**

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Conduit bodies and covers

Type 316 stainless steel form 8

Each conduit outlet body ships complete with gasket, cover and screws.
Conduit bodies and covers
Pre-assembled form 7 BlueKote®

Pre-assembled form 7 BlueKote conduit bodies
Form 7 body, gasket and cover – one number. Now you can order a conduit body, gasket and cover, pre-assembled, using one catalog number. ABB’s pre-assembled cast conduit bodies help reduce transactions, eliminate the need for additional stocking bins and provide an easy inventory reduction. You’ll also have less hassle with managing small parts in the truck or crib. Best of all, you can be absolutely confident that the right parts are in your hands when you need them.

T&B® Fittings conduit bodies and covers feature:
• BlueKote internal finish for faster, easier wire pulling
• Epoxy external finish for superior corrosion resistance
• Tapered NPT threads and integral bushings to protect wire insulation
• Bodies are designed with a flat back for more cubic inch capacity; the flat back also keeps the body more stable during installation, requiring fewer conduit straps
• T&B Fittings form 7 bodies and covers are interchangeable with Crouse-Hinds and Appleton’s form 7 bodies and covers

Specifications
• Bodies: Class 30 gray iron alloy
• Covers: Stamped steel with stainless steel screws
• Gaskets: Neoprene
• Finish: Conduit bodies: zinc-plating with acrylic epoxy coating and internal PTFE-based BlueKote coating
• Covers: Stamped steel zinc-plating with a clear chromate coating
• CSA Standard: C22.2 No. 18

Crouse-Hinds is a trademark of Cooper Industries, Inc. Appleton is a trademark of the EGS Electrical Group, a joint venture of Emerson and SPX Corp. Note: BlueKote is registered for conduit bodies but is not registered for a finish or a coating.

T&B Fittings pre-assembled conduit bodies, gaskets and covers

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<td>C27 body, cover and gasket</td>
</tr>
<tr>
<td>C37CG-TB</td>
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<td>C37 body, cover and gasket</td>
</tr>
<tr>
<td>C47CG-TB</td>
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<td>C47 body, cover and gasket</td>
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<tr>
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<td>C57 body, cover and gasket</td>
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<td>X27 body, cover and gasket</td>
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</tr>
<tr>
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<td>1¼</td>
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<td>X67CG-TB</td>
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For aluminum conduit bodies pre-assembled with covers and gaskets, request Red-Dot® D-PAK® series conduit bodies for rigid and IMC conduit.
## Conduit bodies and covers
Sand cast aluminum form 7

### LB Sand cast aluminum form 7 conduit bodies

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Dimensions (in.)</th>
<th>Cu. in.</th>
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<tbody>
<tr>
<td>LB17SA</td>
<td>½</td>
<td>A 4.63 B 1.91 C 1.41 D 1.03</td>
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<tr>
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<tr>
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### LR Sand cast aluminum form 7 conduit bodies

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## Conduit bodies and covers

Sand cast aluminum form 7

### LU® Sand cast aluminum form 7 conduit bodies

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### Diagrams

- **LU® Sand cast aluminum form 7 conduit bodies**
- **TB Sand cast aluminum form 7 conduit bodies**
- **X Sand cast aluminum form 7 conduit bodies**
Conduit bodies and covers
Sand cast aluminum form 9

<table>
<thead>
<tr>
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<td>LR19SA</td>
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Conduit bodies and covers
Form 9 sand cast aluminum

### LU Sand cast aluminum form 9 conduit bodies

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<th>C</th>
<th>D</th>
<th>E</th>
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### TB Sand cast aluminum form 9 conduit bodies

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### T Sand cast aluminum form 9 conduit bodies

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### X Sand cast aluminum form 9 conduit bodies

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<th>C</th>
<th>D</th>
<th>E</th>
<th>Cu. in.</th>
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<td>1.775</td>
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<td>1.186</td>
<td>3.898</td>
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<td>2.275</td>
<td>3.774</td>
<td>1.382</td>
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<td>14.0</td>
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</table>

Diagrams
Rigid and intermediate metal conduit fittings
Methods of bonding and grounding

(1) Threaded or threadless rigid metal conduit or intermediate metal conduit
(2) Series B123 or B124 threadless fittings
(3) Series B125 set screw fitting
(4) Series 370 or H050-TB sealing hub (Bullet Hubs)
(5) Series 140 locknuts
(6) Series 106 bonding locknut
(7) Series 3870 bonding & grounding bushing
(8) Sta-Kon® or Color-Keyed® lug

Case 1: Where threaded or threadless conduit terminates into a threadless opening in a sheet metal box or enclosure with or without concentric or eccentric knockouts.

Method of bonding
For 120/208 volt or 120/240 volt circuits, provided no unpunched rings remain around the knockout
For under or over 250 volt circuits, service equipment and hazardous locations (where applicable), provided no unpunched rings remain around the knockout
For under or over 250 volt circuits, service equipment and hazardous locations (where applicable) with or without unpunched rings around the knockout

1. Concrete tight
2. Threadless opening in a sheet metal box or enclosure
3. Bonding jumper around concentric or eccentric rings required by CEC Rule 10-614
4. Rain tight
5. For 120/208 volt or 120/240 volt circuits, provided no unpunched rings remain around the knockout
6. For under or over 250 volt circuits, service equipment and hazardous locations (where applicable), provided no unpunched rings remain around the knockout
7. For under or over 250 volt circuits, service equipment and hazardous locations (where applicable) with or without unpunched rings around the knockout
8. Concrete tight
Rigid and intermediate metal conduit fittings
Methods of bonding and grounding

Case 2: Where threaded or threadless conduit terminates into a threaded hub in a cast metal enclosure.

Methods of bonding
For:
(1) 120/208 or 120/240 volt circuits (CEC 10-610)
(2) Over 250 volt circuits (CEC 10-610)
(3) Service equipment (CEC 10-604)
(4) Hazardous locations 18-074 (where applicable)
   18-124 (Class I, Zone 1)
   18-160 (Class I, Zone 2)
   18-218 (Class II, Division 1)
   18-268 (Class II, Division 2)
   18-316 (Class III, Division 1)
   18-366 (Class III, Division 2)
Rigid and intermediate metal conduit fittings
Methods of bonding and grounding

Case 3: Where threaded conduit terminates into a threadless opening in a sheet metal box or enclosure with no concentric or eccentric rings remaining around knockout.

Method of bonding for 120/208 volt or 120/240 volt circuits (other than service equipment).

Method of bonding for over 250 volt circuits, e.g. 600/347 volt systems and those operating over 600 volts (other than service equipment).

Note: Any of the bonding methods described for service equipment may also be used.
Rigid and intermediate metal conduit fittings
Methods of bonding and grounding

Case 3 (cont’d): Where threaded conduit terminates into a threadless opening in a sheet metal box or enclosure with no concentric or eccentric rings remaining around knockout.

Methods of bonding
For:
(i) Over 250 volt circuit, e.g. 347/600-volt systems and those operating over 600 volts
(ii) Service equipment
(iii) Hazardous locations where applicable
Rigid and intermediate metal conduit fittings
Methods of bonding and grounding

Case 4: Where threaded conduit terminates into a threadless opening in a sheet metal box or enclosure with concentric or eccentric rings remaining around knockout.

Methods of bonding for under or over 250 volts, for service equipment and for hazardous locations where applicable.

Note: Bonding jumper required by CEC Rule 10-614

Note: For raintight applications, a sealing ring, ABB series 5302, may be used between outside of box or enclosure and the outside locknut.
Rigid and intermediate metal conduit fittings

Methods of bonding and grounding

1 Series 142 locknut
2 Series 3870 bonding and grounding bushing (threaded)
3 Series 5262 sealing O-ring
4 Typical bolted or pressure lug

01 Bonding service equipment (CEC Rule 10-604)

02 Multiple bonding of service raceways where service entrance conductors are paralleled in two or more raceways, CEC Rule 10-614

03 Install bonding jumper to assure electrical continuity between isolated sections of raceways (CEC Rule 10-614)

Suggested specifications

Insulated grounding and bonding bushing (series 3870)

Where code requires bonding and grounding of single or multiple metal conduit, or positive bonding and grounding of metal conduit to the box, enclosure or auxiliary gutter, the end of the conduit shall be equipped with an insulated metallic grounding and bonding bushing such as series 3870 manufactured by ABB.

Grounding and bonding bushings used shall be approved for the purpose and:

(1) Shall be of malleable iron/steel/aluminum construction adequately protected against corrosion.

(2) Bushing insulator shall be listed or certified for 150 °C/302 °F application with a flammability rating of 94V-0. Insulator must be positively locked in place.

(i) Installing bonding jumper around unpunched concentric or eccentric knockouts in sheet metal box or enclosure (CEC Rule 10-806)

(ii) Installing bonding jumper in hazardous locations where ‘locknut bushing’ or ‘double locknut’ type of contact is unacceptable method for bonding purposes (CEC Rule 18-074)
Rigid and intermediate metal conduit fittings
Methods of bonding and grounding

Suitable for bonding raceway, EMT or terminating fitting to a sheet metal box or enclosure where
(a) No unpunched concentric or eccentric rings remain around the knockout
(b) Ordinary locknut is unacceptable for bonding purposes such as:
   (i) Service equipment enclosures CEC Rule 10-614
   (ii) Bonding for circuits over 250 volts (where required) CEC Rule 10-614
   (iii) Bonding in hazardous locations regardless of the voltage of the system CEC Rule 18-074

Suggested specifications
Bonding type locknut (series 106)
Where drawings indicate installation of a bonding type locknut to effectively bond a terminating fitting or metal conduit to a cabinet, box, enclosure or an auxiliary gutter, the locknuts installed shall be of hardened steel/malleable iron construction, electro-zinc plated, such as series 106 manufactured by ABB.
Rigid and intermediate metal conduit fittings
Methods of bonding and grounding

Acceptable method for bonding following
(i) Service equipment CEC Rule 10-614
(ii) Bonding for circuits over 250 volts
    CEC Rule 10-614
(iii) Bonding in hazardous locations
    CEC Rule 18-074
When installed with a bonding jumper, acceptable
method of bonding where unpunched rings remain
around concentric or eccentric knockouts in sheet
metal boxes or enclosures. (CEC Rule 10-614)

Suggested specifications
Bonding and grounding wedge (series 3650)
Bonding and grounding wedges installed to
effectively bond terminating fitting or metal
conduit to a cabinet, box, enclosure or an auxiliary
gutter or to install bonding jumper around
concentric or eccentric knockouts shall be of the
type as manufactured by ABB – series 3650.

Bonding and grounding wedge shall be of rugged
bronze/tin-plated or steel/electro-zinc plated.
Electrical metallic tubing (EMT) fittings
Specifications

Ref. CEC Rule 12-000 not exceeding 750 volts

Electrical metallic tubing (EMT) is similar to rigid steel conduit but is much lighter, weighing approximately 40 percent as much as rigid steel conduit of the same nominal size. EMT can be used, reference CEC Rule 12-1402, for both exposed or concealed work provided that, during installation or afterwards, it is not subjected to severe physical damage. Galvanized steel EMT installed in concrete, on grade or above, generally requires no supplementary corrosion protection. However, when installed in concrete below grade level and in contact with soil or cinders, supplementary corrosion protection consisting of a protective coating of bitumastic or asphalt base paint or plastic is generally applied. EMT run in or under permanently moist cinder fill must be encased in at least two inches of cinder-free concrete unless the conduit is at least 18 inches below the fill.

Aluminum EMT cannot be directly embedded in concrete containing soluble chlorides such as calcium chloride, unwashed beach sand, sea water or coral-bearing aggregates. When adequately treated with a protective coating of bitumastic or asphalt base paint or plastic coating, the raceway can be installed in concrete containing chlorides.

In wet locations where walls are frequently washed or where there are surfaces of absorbent material, the entire wiring system, including boxes, fittings, conduit and cables, must be supported such that there is at least ¼ inch air space between it and the supporting surface.

Fittings and couplings are required to be of concrete-tight type when embedded in masonry or concrete or in dry locations and of the raintight type when installed in wet locations (CEC Rule 12-1410).

Where No. 4 or larger underground conductors enter or leave a conduit, an insulating bushing with a smooth well-rounded insulating surface must be provided to protect conductors unless the terminating fitting is equipped with an insulated throat, firmly secured in place providing equivalent protection. The insulating bushing or insulating material must have a temperature rating of not less than the insulation temperature rating of installed conductors.

CEC Rule 12-3022 requires that the raceways be metallically joined together into a continuous electric conductor and must be mechanically connected to all boxes, fittings and cabinets as to provide effective electrical continuity.

EMT is not permitted to be threaded. Cut ends of tubing are required to be reamed. Code requires that EMT be adequately supported and restricts bends in one run to the equivalent of four quarters or 360 degrees total.

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For further details and complete information please refer to the following:

1. NEC Article 358 – Electrical metallic tubing
2. ANSI C80.3 – Electrical metallic tubing, zinc coated
3. UL797 – Standards for safety, electrical metallic tubing
4. ANSI C80.4 – Fittings for rigid metal conduit and electrical metallic tubing
5. UL 514A and 514B – Standards for safety, outlet boxes and fittings
6. WW-C-563 – Conduit, metal, rigid, and bend and elbow, electrical conduit, thinwall type (EMT)
7. W-F-408 – Fittings for conduit, metal, rigid, (thickwall and thinwall (EMT) Type)
8. NEMA FB-1 – Standards publication, fittings and supports for conduit and cable assemblies
9. CEC Section 12-1400 – Electrical metallic tubing
10. CSA C22.2 No. 83 – Safety standards for electrical metallic tubing
11. CSA C22.2 No. 18.1 and 18.3 – Safety standards for outlet boxes, conduit boxes and fittings

Please note
The excerpts and other material herein, whether relating to the Canadian Electrical Code 2012 Part I, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation. Reference to original or primary source material and data is mandatory before any application or use is made of the product.
Electrical metallic tubing (EMT) fittings

Specifications

- Ferrous electrical metallic tubing (EMT) shall be of the hot-dipped galvanized type conforming to applicable specifications WW-563/ANSI 80.3/UL 797/CSA C22.2 No. 83. EMT protected solely by enamel shall not be used.
- Where lengths of EMT are coupled together or connected to boxes or enclosures or where EMT is coupled to threaded rigid metal conduit or IMC, fittings approved for intended applications shall be used, and:
  1. Shall be of rugged steel/malleable iron construction electro-zinc plated inside/outside including threads. Fitting throat shall be bushed with a nylon insulator.
  2. Shall be of raintight type for installations exposed to weather or wet locations such as series 5123, 5120 and 530. Raintight type fittings may be substituted for concrete tight application.
- Where electrical metallic tubing and associated fittings are used as part of equipment grounding system:
  1. A bonding type locknut such as series 106 shall be installed where hub-type fitting terminates into a threadless opening.
  2. Compression ring type fittings such as series 5123 and 5120 shall be used for terminating and coupling.
- EMT shall be securely fastened in place at intervals as specified by the code using straps, hangers and other supporting assemblies as indicated on plans, and as manufactured by ABB, series 4176 straps. In wet locations or where supporting surfaces are of absorbent materials vertical and horizontal runs of conduit shall be firmly supported such that there is at least 1/4 in. air space between conduit and supporting surface.
- Spacers and supporting straps shall be of rugged malleable iron or steel construction, hot-dipped galvanized, and conforming to requirements of Canadian Standards Association Standard C22.2 No. 18.3 as manufactured by ABB, series 4176 straps and series 1350 spacers.
Electrical metallic tubing (EMT) fittings
Specifications – Fittings compression type, raintight

Application
- To connect and effectively bond electrical metallic tubing to a box or an enclosure
- To provide a raintight connection between tubing and the fitting
- To couple ends of tubing

Features
- Rugged all-steel construction
- Rings designed to positively bond conduit to fitting; unique locknut design provides effective bond between fitting and box or enclosure; ground continuity is assured
- Nylon insulator firmly secured in place – protects conductors, reduces wire pulling effort and prevents thread damage in handling
- Locknuts are designed with extended reach to lock fitting onto a thin box or an enclosure
- Locknuts tighten without deformation; will not vibrate loose

Standard material
- All steel except insulator
- Insulator: Thermoplastic, UL rated 105 °C

Standard finish
- All steel parts: electro zinc plated and chromate coated
- Insulator: As molded

Range
- Conduit size: ½ in. through 2 in.
- Hub size: ½ in. through 2 in. NPS
- Hubs provided with straight pipe threads NPS

Conformity
- UL 514B
- CSA 22.2 No. 18.3
- NFPA 70-2008 (ANSI)
- NEMA FB-1
- Federal Specification W-F-408
- Federal Standard H-28 (Threads)
## Electrical metallic tubing (EMT) fittings

### Fittings and couplings

#### EMT fittings – Nylon insulated

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<td>1⁷⁄₃₂</td>
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<td>2²³⁄₃₂</td>
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UL Listed and CSA Certified concrete-tight

#### EMT couplings

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<td>5420</td>
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<td>2¹⁄₈₄</td>
<td>2¹³⁄₃₂</td>
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UL Listed and CSA Certified concrete-tight

#### EMT fittings

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<th>Size (in.)</th>
<th>A</th>
<th>B</th>
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<td>2²³⁄₃₂</td>
<td>2²⁷⁄₃₂</td>
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UL Listed and CSA Certified concrete-tight

EMT (thinwall) fittings comply with Federal Spec. WF408B
## Electrical metallic tubing (EMT) fittings

Elbows and combination couplings

Ideal for cramped locations or tight corners where large radius conduit elbows will not fit or would appear unworkmanlike. Shoulders on body of ½ in. size are hex-shaped to provide positive holding for standard installation tools. Use insulated type for simple and safe installations. Malleable iron. CSA rated 105 °C.

### Short elbows – Insulated

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<tr>
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<td>2¼</td>
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UL Listed and CSA Certified raintight

### Short elbows – Malleable iron

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<tr>
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UL Listed and CSA Certified raintight

Combination couplings – Steel

For connecting EMT to threaded rigid and intermediate metal conduit.

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<td>532</td>
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<td>1³⁄₈</td>
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Electrical metallic tubing (EMT) fittings
Pipe straps and spacers

**Pipe straps – Steel**

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<td>4164*</td>
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<td>4 1⁄2</td>
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<td>1⁄4</td>
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Oval hole for screw size (C)

Not UL Listed. *Not CSA. Conforms to CEC 12-1404.

**Pipe straps – Malleable iron**

<table>
<thead>
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<td>8 1⁄8</td>
<td>1⁄4</td>
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Not UL Listed. *Not CSA. Conforms to CEC 12-1404.

**Pipe spacers**

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<td>1353</td>
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<td>1⁄4</td>
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</table>

Conforms to CEC 12-012 (5).
Flexible cord and cable fittings
Specifications

Ref. CEC Section 4 (conductors)
In the Canadian Electrical Code, flexible cords are known by their trade names “hard service cord,” “junior hard service cord” and “vacuum cleaner cord.”

Depending on jacket material, flexible cords listed are suitable for use where immersed in water or where occasionally or continuously in contact with oil or immersed in oil, or outdoors and in mobile homes and recreational vehicles.

Flexible cord is permitted by code for use in portable appliances or stationary equipment requiring movement for service and repair and for wiring in cranes, hoists and elevators. Flexible cord is also permitted to be used to prevent transmission of noise or vibration.

Flexible cord is not permitted as a substitute for fixed wiring of structures or where concealed behind building walls, ceilings or floors. Running flexible cord through holes in walls, ceilings, floors or through doorways, windows or similar openings is also prohibited.

CEC Section 4 requires that flexible cords be so connected to devices and to fittings that tension is not transmitted to joints or terminal screws. Use of suitable strain relief fittings designed for the purpose is one of the recommended alternatives.

Please refer to the following for further details and complete information:
1. UL 62, ANSI C33.1 – Safety standard for flexible cord and fixture wire
2. UL 514A and 514B – Safety standard for outlet boxes and fittings
3. CEC Section 4 – Conductors
   4-012 – Uses of flexible cord
   4-040 – Uses of portable power cable
   12-010 (4) – Flexible cords in ducts and plenum chambers
   22-108 (2) – Bonding conductor for flexible cords for portable equipment
   44-350 (1) (b) – Flexible cords for portable stage equipment
   50-018 (2) – Flexible cords suitable for extra-hard usage are permitted on solar photovoltaic systems
   70-108 – Power supply cord – factory-built relocatable structures and non-relocatable structures
   76-002 – Temporary wiring
   76-010 – Feeders
   78-058 (2) – Marinas and yacht clubs
   78-104 (2) – Marine wharves, structures and fishing harbours
4. CSA C22.2 No. 49 – Safety standards for flexible cords and cables and fixture wires
5. CSA C22.2 No. 18.1 and 18.3 – Safety standards for outlet boxes, conduit boxes and fittings

Please note
The excerpts and other material herein, whether relating to the Canadian Electrical Code 2012 Part I, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation. Reference to original or primary source material and data is mandatory before any application or use is made of the product.

Following is a brief description of the three cords:

<table>
<thead>
<tr>
<th>Type of cord</th>
<th>Hard service cord</th>
<th>Junior hard service cord</th>
<th>Vacuum cleaner cord</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Use</td>
<td>Extra hard pendant, portable</td>
<td>Hard pendant, portable</td>
<td>Light pendant, portable</td>
</tr>
<tr>
<td>2. Voltage rating</td>
<td>Up to 600 volts</td>
<td>Up to 300 volts</td>
<td>Up to 300 volts</td>
</tr>
<tr>
<td>3. Conductor material</td>
<td>Copper (stranded)</td>
<td>Copper (stranded)</td>
<td>Copper (stranded)</td>
</tr>
<tr>
<td>4. Type designation (depends on jacket material)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Rubber jacket</td>
<td>Type S</td>
<td>Type SJ</td>
<td>Type SV</td>
</tr>
<tr>
<td>ii. Oil-resistant rubber jacket</td>
<td>Type SO</td>
<td>Type SJ0</td>
<td>Type SVO</td>
</tr>
<tr>
<td>iii. Thermoplastic jacket</td>
<td>Type ST</td>
<td>Type SJT</td>
<td>Type SVT</td>
</tr>
<tr>
<td>iv. Oil-resistant thermoplastic jacket</td>
<td>Type STO</td>
<td>Type SJTO</td>
<td>Type SVTO</td>
</tr>
</tbody>
</table>
Flexible cord and cable fittings
Suggested specifications

- Flexible cord or cable and associated fittings shall be suitable for conditions of use and location and approved for the purpose by a nationally recognized testing laboratory, inspection agency or product evaluation organization.
- Flexible cord or cable shall be so connected to the device or fitting that tension will not be transmitted to joints or terminal screws. Sufficient slack shall be provided to avoid sharp flexing and straining. Cord or cable shall be installed in such a manner that liquid will tend to run off the surface instead of draining towards the fitting.
- Where flexible cord or cable exposed to intermittent or constant moisture and subjected to mechanical strain is terminated into a threaded or threadless opening, terminating fittings shall be of watertight strain-relief type such as series 2920, 2920AL, 2920NM, 2520, 2631 or 2672. Fittings shall be equipped with a beveled moisture-resistant/oil-resistant synthetic rubber bushing.
- Where space is limited inside the enclosure, a female hub type fitting such as series 2631 shall be furnished. A captive resilient sealing O-ring shall be included to positively protect against damage from overtorquing.
Flexible cord and cable fittings
Suggested specifications

- Where flexible cord or cable exposed to moisture is terminated into a threadless opening using male threaded hub-type fittings such as series 2520 or 2920, a suitable moisture-resistant/oil-resistant synthetic rubber gasket such as series 5262 shall be provided between the outside of box or enclosure and fitting shoulder. Resilient gasket shall be adequately protected by and permanently bonded to a metallic retainer.
- Where exposed to environmental conditions that are more than normally corrosive, watertight strain relief fittings shall be of high impact thermoplastic construction such as series 2672 or 2920NM.
- Where flexible cord or cable passes through either factory or field-punched, cut or drilled holes in metal members, the cord or cable shall be protected by thermoplastic bushing such as series 3210, 3300. Bushing shall be firmly secured in opening. Nylon-bushed metallic fittings such as series 1942 may be substituted as required.
- For wet location, fittings furnished with synthetic rubber bushing such as series 2530 or 2672 shall be installed.

---

01 Series 3300 nonmetallic sheathed cable and flexible cord fitting
02 Series 5262 sealing gasket
03 Series 1942 insulated nipple
04 Series 3210 knockout bushing

---

01
02
03
04
Flexible cord and cable fittings
How to select T&B flexible cord fittings

**Step 1.**
Determine diameter range in chart by using cord size and type or by measuring the diameter of your cord.

**Step 2.**
Determine catalogue number by choosing the hub size and type (straight or 90°) for the diameter range determined in step 1.

This chart can be used as a guide for selecting the proper fitting for the UL Listed and CSA Certified cords. Cords vary in size, and cord diameter should be measured whenever possible.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Diameter range (in.)</th>
<th>SV, SVO, SVT, SVTO cord sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2671</td>
<td>2680</td>
<td>¼</td>
<td>0.125–0.275, 18–2, 18–3</td>
</tr>
<tr>
<td>2672</td>
<td>2681</td>
<td>½</td>
<td>0.275–0.375, 18–2, 18–3</td>
</tr>
<tr>
<td>2673</td>
<td>2682</td>
<td>¾</td>
<td>0.375–0.625, 18–2, 18–3</td>
</tr>
<tr>
<td>2674</td>
<td>2683</td>
<td>1</td>
<td>0.625–0.875, 18–2, 18–3</td>
</tr>
</tbody>
</table>

* Actual cord diameter must be determined before proper fitting can be selected.

Measure cord, if available, or refer to cord manufacturer’s catalogue.
### Flexible cord and cable fittings

#### Flexible cord and power cable chart

<table>
<thead>
<tr>
<th>Type of cord</th>
<th>Size of conductors (AWG)</th>
<th>2 Conductor</th>
<th>3 Conductor</th>
<th>4 Conductor</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV, SVO, SVT</td>
<td>18</td>
<td>0.250</td>
<td>0.260</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>0.300</td>
<td>0.330</td>
<td>0.360</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>0.330</td>
<td>0.360</td>
<td>0.390</td>
</tr>
<tr>
<td>SJ, SJO, SJT, SJTO</td>
<td>18</td>
<td>0.300</td>
<td>0.330</td>
<td>0.360</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>0.330</td>
<td>0.360</td>
<td>0.390</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>0.375</td>
<td>0.395</td>
<td>0.420</td>
</tr>
<tr>
<td>S, SO, ST, STO, and portable power cables</td>
<td>18</td>
<td>0.385</td>
<td>0.400</td>
<td>0.430</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>0.400</td>
<td>0.425</td>
<td>0.480</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>0.530</td>
<td>0.560</td>
<td>0.605</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>0.600</td>
<td>0.635</td>
<td>0.665</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>0.640</td>
<td>0.690</td>
<td>0.745</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>0.700-0.840</td>
<td>0.750-0.910</td>
<td>0.820-0.990</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>0.820-0.930</td>
<td>0.885-1.010</td>
<td>0.975-1.100</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>1.080</td>
<td>1.170</td>
<td>1.270</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>1.170</td>
<td>1.240</td>
<td>1.340</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1.270</td>
<td>1.340</td>
<td>1.480</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1.440</td>
<td>1.510</td>
<td>1.680</td>
</tr>
<tr>
<td></td>
<td>1/0</td>
<td>1.520</td>
<td>1.650</td>
<td>1.790</td>
</tr>
<tr>
<td></td>
<td>2/0</td>
<td>1.650</td>
<td>1.750</td>
<td>1.930</td>
</tr>
<tr>
<td></td>
<td>3/0</td>
<td>1.770</td>
<td>1.890</td>
<td>2.070</td>
</tr>
<tr>
<td></td>
<td>4/0</td>
<td>1.920</td>
<td>2.070</td>
<td>2.260</td>
</tr>
<tr>
<td></td>
<td>250</td>
<td>2.160</td>
<td>2.390</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>–</td>
<td>–</td>
<td>0.410</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>–</td>
<td>–</td>
<td>0.450</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>–</td>
<td>–</td>
<td>0.530</td>
</tr>
<tr>
<td>Bus drop cables</td>
<td>8</td>
<td>–</td>
<td>–</td>
<td>0.670</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>–</td>
<td>–</td>
<td>0.850</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>–</td>
<td>–</td>
<td>0.950</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>–</td>
<td>–</td>
<td>1.000</td>
</tr>
</tbody>
</table>

Note: The above dimensions are approximate and may vary depending upon the manufacturer.
Flexible cord and cable fittings
Specifications – Liquidtight fittings

Application
- A liquidtight fitting to connect flexible cord or power cable to a box or enclosure and provide adequate strain relief.

Features
- Liquidtight connection with box or enclosure is assured by:
  1. Taper-threaded hub on 2520 series for female hub application (A)
  2. Using sealing ring series 5262 with 2520 series for knockout application (B)
  3. Captivated sealing O-ring on 2631 series (C)
- Neoprene bushing makes liquidtight installation; applies pressure against cable the full length of bushing (D)
- Thermoplastic or stainless steel retaining ring (E)
  1. Will not abrade cord/cable jacket
  2. Reduces installing torque effort
- UL Listed for liquidtightness, strain relief and as an outlet bushing; CSA certified watertight

Standard material
- Gland, body: Steel/malleable iron/zinc die cast
- Retaining ring: Thermoplastic/stainless steel
- Bushing: Neoprene
- O-ring: Buna N

Standard finish
- Electro zinc plated and chromate coated

Range
- 2520 Series, straight 0.125 in. outside diameter to 3.200 in. outside diameter cord or cable
- 2200 Series, 45° 0.125 in. outside diameter to 1.485 in. outside diameter cord or cable
- 2267 Series, 90° 0.125 in. outside diameter to 1.875 in. outside diameter cord or cable
cord/cable type S, SO, SV, ST, STO, SJ, SJO, SJT, SJTO, SVO and SVT

Conformity
- UL 514B
- CSA C22.2 No. 18.3
- NFPA 70-2008 (ANSI)
Liquidtight strain-relief fittings

<table>
<thead>
<tr>
<th>Cable size range (in.)</th>
<th>Hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat. no.</td>
<td>0.060–0.125</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2516</td>
<td>0.120–0.250</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2517</td>
<td>0.060–0.150</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2519</td>
<td>0.150–0.300</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2520</td>
<td>0.125–0.250</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2521</td>
<td>0.250–0.375</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2522</td>
<td>0.375–0.500</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2523</td>
<td>0.450–0.560</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2524*</td>
<td>0.500–0.625</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2525*</td>
<td>0.625–0.750</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2530</td>
<td>0.125–0.250</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2531</td>
<td>0.250–0.375</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2532</td>
<td>0.375–0.500</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2533</td>
<td>0.500–0.625</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2534</td>
<td>0.625–0.750</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2535</td>
<td>0.750–0.880</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2536*</td>
<td>0.800–1.065</td>
<td>1/8</td>
<td>1/4</td>
</tr>
<tr>
<td>2548*</td>
<td>0.880–1.065</td>
<td>1/8</td>
<td>1/4</td>
</tr>
</tbody>
</table>

* Remove sufficient outer covering of cable to permit conductors to pass through fitting body
† UL not applicable
** Not CSA Certified
Complies with JIC standards
UL Listed as liquidtight strain-relief, and outlet bushing. CSA certified watertight when used with 5262 series sealing ring. gasket (sold separately)
Temperature rating: 105 °C
For wiremesh grips, refer to page B104

Diagrams

---

02 Fig. 1

03 Fig. 2
90° Strain-relief fittings

Swing radius 90°
With neoprene bushings, tapered hub threads, malleable iron.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable size range min.-max. (in.)</th>
<th>Hub sizes (in.)</th>
<th>Dimensions (in.)</th>
<th>Throat dia. (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Size (in.)</td>
<td>Size (in.)</td>
<td>Size (in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dia. (in.)</td>
<td></td>
<td>Dia. (in.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Diagram

* Remove sufficient outer covering of cable to permit conductors to pass through fitting body
Complies with JIC standards and Federal Specs W-F-406B, W-F-408B
Meets Coast Guard CG293
For wiremesh grips, refer to page B104
### 45° Strain-relief fittings

**Diagram**

45˚ Strain-relief fittings

- **Swing radius 45˚**
  - With neoprene bushings, tapered hub threads, malleable iron.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable size range min. max. (in.)</th>
<th>Hub size (in.)</th>
<th>Dimensions (in.)</th>
<th>Throat dia. (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagram</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2200</td>
<td>0.125–0.250</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>2201</td>
<td>0.250–0.375</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>2202</td>
<td>0.375–0.500</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>2203</td>
<td>0.450–0.560</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>2204*</td>
<td>0.500–0.625</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>2205*</td>
<td>0.625–0.750</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>2206TB</td>
<td>0.125–0.250</td>
<td>¾</td>
<td>⅝</td>
<td>⅛</td>
</tr>
<tr>
<td>2207TB</td>
<td>0.250–0.375</td>
<td>¾</td>
<td>⅝</td>
<td>⅛</td>
</tr>
<tr>
<td>2208TB</td>
<td>0.375–0.500</td>
<td>¾</td>
<td>⅝</td>
<td>⅛</td>
</tr>
<tr>
<td>2209</td>
<td>0.500–0.625</td>
<td>¾</td>
<td>⅝</td>
<td>⅛</td>
</tr>
<tr>
<td>2210</td>
<td>0.625–0.750</td>
<td>¾</td>
<td>⅝</td>
<td>⅛</td>
</tr>
<tr>
<td>2211*</td>
<td>0.750–0.880</td>
<td>¾</td>
<td>⅞</td>
<td>⅛</td>
</tr>
<tr>
<td>2213</td>
<td>0.375–0.500</td>
<td>⅓</td>
<td>⅓</td>
<td>⅔</td>
</tr>
<tr>
<td>2214</td>
<td>0.500–0.625</td>
<td>⅓</td>
<td>⅓</td>
<td>⅔</td>
</tr>
<tr>
<td>2215</td>
<td>0.625–0.750</td>
<td>⅓</td>
<td>⅓</td>
<td>⅔</td>
</tr>
<tr>
<td>2216</td>
<td>0.750–0.875</td>
<td>⅓</td>
<td>⅓</td>
<td>⅔</td>
</tr>
<tr>
<td>2217*</td>
<td>0.875–0.985</td>
<td>⅓</td>
<td>⅓</td>
<td>⅔</td>
</tr>
<tr>
<td>2218*</td>
<td>0.880–1.065</td>
<td>⅓</td>
<td>⅓</td>
<td>⅔</td>
</tr>
<tr>
<td>2219*</td>
<td>1.065–1.205</td>
<td>⅓</td>
<td>⅓</td>
<td>⅔</td>
</tr>
<tr>
<td>2222*</td>
<td>1.187–1.375</td>
<td>2⅔</td>
<td>⅔</td>
<td>⅔</td>
</tr>
<tr>
<td>2223*</td>
<td>1.375–1.485</td>
<td>2⅔</td>
<td>⅔</td>
<td>⅔</td>
</tr>
</tbody>
</table>

* Remove sufficient outer covering of cable to permit conductors to pass through fitting body
UL Listed as liquidtight strain-relief, and outlet bushing
CSA certified watertight
For wiremesh grips, refer to page B104
CHASE liquidtight cord fittings and multi-hole grips

CHASE liquidtight cord fittings are ideal for installation where space is limited inside the enclosure.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable size range min. max. (in.)</th>
<th>Hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2631</td>
<td>0.125–0.250</td>
<td>¾</td>
<td>¾₁₈</td>
<td>1⅞</td>
</tr>
<tr>
<td>2632</td>
<td>0.250–0.375</td>
<td>¾</td>
<td>¾₁₈</td>
<td>1⅞</td>
</tr>
<tr>
<td>2633</td>
<td>0.375–0.500</td>
<td>¾</td>
<td>¾₁₈</td>
<td>1⅞</td>
</tr>
<tr>
<td>2634</td>
<td>0.450–0.560</td>
<td>¾</td>
<td>¾₁₈</td>
<td>1⅞</td>
</tr>
<tr>
<td>2637</td>
<td>0.125–0.250</td>
<td>¾</td>
<td>9/₁₆₂</td>
<td>1¾</td>
</tr>
<tr>
<td>2638</td>
<td>0.250–0.375</td>
<td>¾</td>
<td>9/₁₆₂</td>
<td>1¾</td>
</tr>
<tr>
<td>2639</td>
<td>0.375–0.500</td>
<td>¾</td>
<td>9/₁₆₂</td>
<td>1¾</td>
</tr>
<tr>
<td>2640</td>
<td>0.500–0.625</td>
<td>¾</td>
<td>9/₁₆₂</td>
<td>1¾</td>
</tr>
</tbody>
</table>

CHASE fittings and multi-hole grips

In many applications you have only room for one fitting but you need to run two cables, for example, proximity switches. Now you can provide strain relief and liquidtight protection with ABB’s multi-hole liquidtight strain-relief fittings. With the ever-increasing number of signal cables, now you have a solution to the problem of how to strain relieve multiple cables in one fitting.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>No. of holes</th>
<th>Cord dia. (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2520-2</td>
<td>¼</td>
<td>2</td>
<td>0.220</td>
<td>1.125</td>
</tr>
<tr>
<td>2530-2</td>
<td>¼</td>
<td>2</td>
<td>0.220</td>
<td>1.375</td>
</tr>
<tr>
<td>2531-2</td>
<td>¼</td>
<td>2</td>
<td>0.260</td>
<td>1.375</td>
</tr>
<tr>
<td>2531-3</td>
<td>¼</td>
<td>3</td>
<td>0.260</td>
<td>1.375</td>
</tr>
<tr>
<td>2541-2*</td>
<td>1</td>
<td>2</td>
<td>0.300</td>
<td>1.625</td>
</tr>
<tr>
<td>2542-2*</td>
<td>1</td>
<td>2</td>
<td>0.375</td>
<td>1.625</td>
</tr>
<tr>
<td>2540-3</td>
<td>1</td>
<td>3</td>
<td>0.225</td>
<td>1.625</td>
</tr>
<tr>
<td>2541-3*</td>
<td>1</td>
<td>3</td>
<td>0.300</td>
<td>1.625</td>
</tr>
<tr>
<td>2540-4</td>
<td>1</td>
<td>4</td>
<td>0.220</td>
<td>1.625</td>
</tr>
<tr>
<td>2555-2</td>
<td>1¼</td>
<td>2</td>
<td>0.500</td>
<td>2.093</td>
</tr>
</tbody>
</table>

Range of cord diameter ± 0.010 in.

*UL Listed only

Temperature: 105 °C
The Ranger series – Liquidtight strain-relief fittings

The fitting that takes a 0.250 inch cable range.

New materials and computer aided designs helped ABB develop a strain relief fitting that will take twice the cable range of ordinary strain-relief fittings.

Application
- A liquidtight fitting to secure flexible cord or power cable to a box or enclosure and provide strain relief.

Features
- Extended range with superior strain relief
- Reduced overall size, fits into tighter spaces
- Gland nut designed to restrict cable bending

### Range

<table>
<thead>
<tr>
<th>Series</th>
<th>Hub size (in.)</th>
<th>0.125 in. through 0.350 in.</th>
<th>0.125 in. through 0.750 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>29205</td>
<td>½ 1⁄₈</td>
<td>0.950 in.</td>
<td>0.750 in.</td>
</tr>
<tr>
<td>4920</td>
<td>⅜ ⅜</td>
<td>0.750 in.</td>
<td>0.500 in.</td>
</tr>
<tr>
<td>4960</td>
<td>⅘ ⅘</td>
<td>0.500–0.750 in.</td>
<td>0.310–0.560 in.</td>
</tr>
<tr>
<td>2920AL</td>
<td>⅘ ⅘</td>
<td>0.310–0.560 in.</td>
<td>0.125–0.375 in.</td>
</tr>
<tr>
<td>4960AL</td>
<td>⅘ ⅘</td>
<td>0.310–0.560 in.</td>
<td>0.125–0.375 in.</td>
</tr>
<tr>
<td>2920NM</td>
<td>⅗ ⅗</td>
<td>0.310–0.560 in.</td>
<td>0.125–0.375 in.</td>
</tr>
<tr>
<td>4960NM</td>
<td>⅗ ⅗</td>
<td>0.310–0.560 in.</td>
<td>0.125–0.375 in.</td>
</tr>
</tbody>
</table>

### Standard material/finish

<table>
<thead>
<tr>
<th>Series</th>
<th>2920S Series</th>
<th>2920NM Series</th>
<th>2920AL Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Steel (ST)</td>
<td>Nylon</td>
<td>Aluminum (ST)</td>
</tr>
<tr>
<td></td>
<td>45° and 90°</td>
<td>(weather stabilized)</td>
<td>Malleable Iron (90°)</td>
</tr>
<tr>
<td>Gland</td>
<td>Steel</td>
<td>Nylon</td>
<td>Aluminum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(weather stabilized)</td>
<td></td>
</tr>
<tr>
<td>Grip</td>
<td>Plastic</td>
<td>Nylon</td>
<td>Aluminum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(weather stabilized)</td>
<td></td>
</tr>
<tr>
<td>Bushing</td>
<td>Santoprene</td>
<td>Oil-resistant elastomer</td>
<td>Aluminum</td>
</tr>
</tbody>
</table>

### Liquidtight strain-relief fittings – Straight

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Cord range min.-max. (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2920S</td>
<td>½</td>
<td>1⁄₁₈</td>
<td>0.125–0.375</td>
<td>1⁄₄ 1⁄₄ ⅛</td>
</tr>
<tr>
<td>2920S</td>
<td>¾</td>
<td>⅛</td>
<td>0.310–0.560</td>
<td>1⁄₄ 1⁄₄ ⅛</td>
</tr>
<tr>
<td>2920S</td>
<td>⅘</td>
<td>⅛</td>
<td>0.500–0.750</td>
<td>1⁄₄ 1⁄₄ ⅛</td>
</tr>
<tr>
<td>2930S</td>
<td>⅘</td>
<td>⅛</td>
<td>0.125–0.375</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2931S</td>
<td>⅘</td>
<td>⅛</td>
<td>0.310–0.560</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2932S</td>
<td>⅘</td>
<td>⅛</td>
<td>0.500–0.750</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2940S</td>
<td>1</td>
<td>⅛</td>
<td>0.310–0.560</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2941S</td>
<td>1</td>
<td>⅛</td>
<td>0.500–0.750</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2942S</td>
<td>1</td>
<td>⅛</td>
<td>0.700–0.950</td>
<td>⅛ ⅛ ⅛</td>
</tr>
</tbody>
</table>

*It may be necessary to remove sufficient outer covering of cable to permit conductors to pass through the fitting body.

### Liquidtight strain relief fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Cord range min.-max. (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2920</td>
<td>½</td>
<td>1⁄₁₈</td>
<td>0.125–0.375</td>
<td>1⁄₄ 1⁄₄ ⅛</td>
</tr>
<tr>
<td>2921</td>
<td>⅝</td>
<td>⅛</td>
<td>0.310–0.560</td>
<td>1⁄₄ 1⁄₄ ⅛</td>
</tr>
<tr>
<td>2922*</td>
<td>½</td>
<td>⅛</td>
<td>0.500–0.750</td>
<td>1⁄₄ 1⁄₄ ⅛</td>
</tr>
<tr>
<td>2930</td>
<td>⅝</td>
<td>⅛</td>
<td>0.125–0.375</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2931</td>
<td>⅝</td>
<td>⅛</td>
<td>0.310–0.560</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2932</td>
<td>⅝</td>
<td>⅛</td>
<td>0.500–0.750</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2940</td>
<td>1</td>
<td>⅛</td>
<td>0.310–0.560</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2941</td>
<td>1</td>
<td>⅛</td>
<td>0.500–0.750</td>
<td>⅛ ⅛ ⅛</td>
</tr>
<tr>
<td>2942</td>
<td>1</td>
<td>⅛</td>
<td>0.700–0.950</td>
<td>⅛ ⅛ ⅛</td>
</tr>
</tbody>
</table>

*It may be necessary to remove sufficient outer covering of cable to permit conductors to pass through the fitting body.
The Ranger series – Stainless steel liquidtight cord fittings

Type 304 stainless steel construction for harsh environments.

Until now, there has been no ideal solution for liquidtight connections of portable cord to a box or enclosure in corrosive environments. Steel fittings rust and nonmetallic fittings cannot withstand high temperatures or ultraviolet exposure.

In response to customer demand, ABB has developed the latest addition to its high-performance line of Ranger cord fittings. Made of type 304 stainless steel, Ranger stainless steel liquidtight cord fittings stand up to highly corrosive environments – such as washdown areas in food and beverage or pharmaceutical processing – as well as high temperatures and UV exposure.

Like all Ranger liquidtight cord fittings, the stainless steel fittings offer twice the cord diameter range of similar fittings, so you can do more with fewer sizes to order and stock. They form a non-slip mechanical grip, providing a liquidtight seal and the strain relief required for flexible portable cord connections.

- Each fitting covers a 0.25 in. cord diameter range – twice that of ordinary strain relief fittings
- Superior corrosion resistance in washdown areas and other corrosive environments
- Stands up to heat and UV exposure better than nonmetallic fittings
- Beveled, moisture- and oil-resistant synthetic rubber bushing system ensures superior compression and sealing of fitting to cord
- Bushing marked with cord range for easy identification out of the box

### Ranger stainless steel cord fittings – 1/4 in.–3/8 in. hub sizes

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Cord dia. range (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2918SSST</td>
<td>1/4</td>
<td>0.118–0.256</td>
<td>A 1.000, B 0.250, C 0.625</td>
</tr>
<tr>
<td>2919SSST</td>
<td>3/16</td>
<td>0.157–0.315</td>
<td>A 0.438, B 0.750</td>
</tr>
</tbody>
</table>

### Ranger stainless steel cord fittings – 3/4 in.–1 in. hub sizes

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Cord dia. range (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2920SSST</td>
<td>3/16</td>
<td>0.125–0.375</td>
<td>A 1.935, B 0.610, C 1.125</td>
</tr>
<tr>
<td>2921SSST</td>
<td>1/4</td>
<td>0.310–0.560</td>
<td>A 1.935, B 0.610, C 1.125</td>
</tr>
<tr>
<td>2922SSST</td>
<td>5/32</td>
<td>0.500–0.750</td>
<td>A 2.063, B 0.630, C 1.125</td>
</tr>
</tbody>
</table>

*It may be necessary to remove sufficient outer covering of cable to permit conductors to pass through the fitting body.*
## The Ranger series – Steel fittings

### Liquidtight strain-relief fittings – 45° angle

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Cord range (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4920</td>
<td>1/2</td>
<td>3/8</td>
<td>0.125–0.375</td>
<td>1/4</td>
</tr>
<tr>
<td>4921</td>
<td>1/2</td>
<td>3/8</td>
<td>0.310–0.560</td>
<td>1/4</td>
</tr>
<tr>
<td>4922*</td>
<td>1/2</td>
<td>3/8</td>
<td>0.500–0.750</td>
<td>1/4</td>
</tr>
<tr>
<td>4932</td>
<td>3/4</td>
<td>5/8</td>
<td>0.500–0.750</td>
<td>1/4</td>
</tr>
<tr>
<td>4933</td>
<td>3/4</td>
<td>5/8</td>
<td>0.700–0.950</td>
<td>1/4</td>
</tr>
</tbody>
</table>

*It may be necessary to remove sufficient outer covering of cable to permit conductors to pass through the fitting body

### Liquidtight strain-relief fittings – 90° angle

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Cord range (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4960</td>
<td>1/4</td>
<td>5/32</td>
<td>0.125–0.375</td>
<td>13/64</td>
</tr>
<tr>
<td>4961</td>
<td>1/4</td>
<td>5/32</td>
<td>0.310–0.560</td>
<td>13/64</td>
</tr>
<tr>
<td>4962*</td>
<td>1/4</td>
<td>5/32</td>
<td>0.500–0.750</td>
<td>13/64</td>
</tr>
<tr>
<td>4970</td>
<td>5/16</td>
<td>11/64</td>
<td>0.125–0.375</td>
<td>13/64</td>
</tr>
<tr>
<td>4971</td>
<td>5/16</td>
<td>11/64</td>
<td>0.310–0.560</td>
<td>13/64</td>
</tr>
<tr>
<td>4972</td>
<td>5/16</td>
<td>11/64</td>
<td>0.500–0.750</td>
<td>13/64</td>
</tr>
</tbody>
</table>

*It may be necessary to remove sufficient outer covering of cable to permit conductors to pass through the fitting body
# The Ranger series – Aluminum fittings

Body and gland nut are aluminum.

## Aluminum liquidtight strain-relief fittings – Straight

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Cord range (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2920AL</td>
<td>1/4</td>
<td>9/16</td>
<td>0.125–0.375</td>
<td>1/8</td>
</tr>
<tr>
<td>2921AL</td>
<td>3/16</td>
<td>11/16</td>
<td>0.310–0.560</td>
<td>1/8, 1/4</td>
</tr>
<tr>
<td>2922AL</td>
<td>9/16</td>
<td>11/16</td>
<td>0.500–0.750</td>
<td>1/8, 1 1/8</td>
</tr>
<tr>
<td>2930AL</td>
<td>1/2</td>
<td>13/16</td>
<td>0.125–0.375</td>
<td>1/8, 1 1/8</td>
</tr>
<tr>
<td>2931AL</td>
<td>3/8</td>
<td>15/16</td>
<td>0.310–0.560</td>
<td>1/8, 1 1/8</td>
</tr>
<tr>
<td>2932AL</td>
<td>5/8</td>
<td>15/16</td>
<td>0.500–0.750</td>
<td>1/8, 1 1/8</td>
</tr>
<tr>
<td>2940AL</td>
<td>1</td>
<td>17/16</td>
<td>0.310–0.560</td>
<td>1/8, 1 1/8</td>
</tr>
<tr>
<td>2941AL</td>
<td>1</td>
<td>17/16</td>
<td>0.500–0.750</td>
<td>1/8, 1 1/8</td>
</tr>
<tr>
<td>2942AL</td>
<td>1</td>
<td>19/16</td>
<td>0.700–0.950</td>
<td>1 1/8, 1 1/8</td>
</tr>
</tbody>
</table>

* It may be necessary to remove sufficient outer covering of cable to permit conductors to pass through fitting body.

---

# Aluminum liquidtight strain-relief fittings – 90° elbow

Body and gland nut are aluminum.

## Aluminum liquidtight strain-relief fittings – 90° elbow

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade or hub size (in.)</th>
<th>Throat diam. (in.)</th>
<th>Cord range (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4960AL</td>
<td>1/4</td>
<td>9/16</td>
<td>0.125–0.375</td>
<td>1/8</td>
</tr>
<tr>
<td>4961AL</td>
<td>3/16</td>
<td>11/16</td>
<td>0.360–0.560</td>
<td>1/8</td>
</tr>
<tr>
<td>4970AL</td>
<td>1/2</td>
<td>13/16</td>
<td>0.125–0.375</td>
<td>1 1/8, 1 1/8</td>
</tr>
<tr>
<td>4971AL</td>
<td>3/8</td>
<td>15/16</td>
<td>0.310–0.560</td>
<td>1 1/8, 1 1/8</td>
</tr>
<tr>
<td>4972AL</td>
<td>5/8</td>
<td>15/16</td>
<td>0.500–0.750</td>
<td>1 1/8, 1 1/8</td>
</tr>
<tr>
<td>4980AL</td>
<td>1</td>
<td>17/16</td>
<td>0.310–0.560</td>
<td>1 1/8, 1</td>
</tr>
<tr>
<td>4981AL</td>
<td>1</td>
<td>17/16</td>
<td>0.500–0.750</td>
<td>1 1/8, 1</td>
</tr>
<tr>
<td>4982AL</td>
<td>1</td>
<td>19/16</td>
<td>0.700–0.950</td>
<td>1 1/8, 1</td>
</tr>
</tbody>
</table>
The Ranger series – Nylon cord grip fittings

A Ranger exclusive smaller shape:
30% smaller envelope. Wide range:
twice the cable range.
- Reduced size means fittings can be placed
closer together
- Wider range means one fitting can cover twice
  the cable range of others
- Nonmetallic means corrosion resistance

Nonmetallic liquidtight strain-relief fittings – Straight

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade or hub size (in.)</th>
<th>Throat diam. (in.)</th>
<th>Cord range (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>2920NM</td>
<td>1⁄4</td>
<td>9⁄16</td>
<td>0.125–0.375</td>
<td>1¹⁄₈</td>
</tr>
<tr>
<td>2921NM</td>
<td>1⁄4</td>
<td>9⁄16</td>
<td>0.310–0.560</td>
<td>1¹⁄₈</td>
</tr>
<tr>
<td>2922NM*</td>
<td>1⁄4</td>
<td>9⁄16</td>
<td>0.500–0.750</td>
<td>1¹⁄₈</td>
</tr>
<tr>
<td>2930NM</td>
<td>3⁄₄</td>
<td>3⁄₈</td>
<td>0.125–0.375</td>
<td>1¹⁄₈</td>
</tr>
<tr>
<td>2931NM</td>
<td>3⁄₄</td>
<td>3⁄₈</td>
<td>0.310–0.560</td>
<td>1¹⁄₈</td>
</tr>
<tr>
<td>2932NM</td>
<td>3⁄₄</td>
<td>3⁄₈</td>
<td>0.500–0.750</td>
<td>1¹⁄₈</td>
</tr>
<tr>
<td>2940NM</td>
<td>1</td>
<td>7⁄₃₂</td>
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</table>

*It may be necessary to remove sufficient outer covering of cable to permit conductors to pass through the fitting body

Nonmetallic liquidtight strain-relief fittings – 90° elbow

- Weather-stabilized nylon
- UL 94V-2
- Temperature rating: -34 °C to 105 °C
- Meets Coast Guard CG293

90° elbow, new reduced size, smaller footprint
Silver Grip – TCF series tray-cord fittings

01 Large tapered bushing and high-performance chuck grip
02 Tray cable applications
03 Portable cord applications

One heck of a grip.
Increased safety for hazardous locations.
The Silver Grip tray cord fitting is the safe, yet cost-efficient choice for increased safety when terminating portable cord and tray cable in hazardous locations.

Designed for use in Class I gas and vapour environments, the Silver Grip tray cord fitting provides efficient strain relief for cables entering enclosures and raceways, and for cords used on portable equipment.
- Corrosion-resistant, non-magnetic aluminum construction
- Tapered neoprene bushing and O-ring seal out moisture and dirt ingress
- Chuck grip provides high mechanical pull-out performance, exceeding applicable requirements
- Hand-tightens — no tools required
- Now available in 316 stainless steel
- 90 °C temperature rating
# Silver Grip – TCF series tray-cord fittings

## Ordering information

<table>
<thead>
<tr>
<th>Cat. no</th>
<th>Cat. No</th>
<th>Hub size</th>
<th>Throat dia.</th>
<th>Minimum cable dia.</th>
<th>Maximum opening</th>
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<td>aluminum</td>
<td>stainless steel</td>
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<td>(in.)</td>
<td>(in.)</td>
<td>(in.)</td>
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<td>0.780</td>
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</tbody>
</table>

*When cord will not fit through body, strip cord jacket and trim fillers if required. Insert cable, ensuring the outer jacket reaches the end of the bushing as shown. Tighten gland nut onto body.*
Applications

Tray cable
Complies with IEC requirements for Class I, Zone 2 locations when used with enclosures containing no arcing or sparking devices. For enclosures with arcing or sparking devices, TCF fittings must be used in combination with a certified Class I hazardous location sealing fitting.

Portable cord
Complies with IEC requirements for Class I, Zone 1 locations when used with enclosures containing no arcing or sparking devices. For enclosures with arcing or sparking devices, TCF fittings must be used in combination with a certified Class I hazardous location sealing fitting.

- CSA Class 4418-05 fittings for hazardous locations Class I, Zone 1 Ex e II, IP66; Type 4/4X, (CSA)
- CSAus Class 4418-85 fittings for hazardous locations Class I, Zone 1, A Ex e II, IP66; Type 4/4X, (CSAus)
- Note: Tray cable is not suitable for use in Zone 1 locations. Portable cord can be used in Zone 1 applications only when installed on portable equipment.

Utilisation
- For use with unarmored cable types suitable for use in Class I, Zone 1 (e.g. extra hard usage cord)
- Series TCF cable glands, when used with tray cables are suitable to be installed in Class I, Zone 2/Div. 2 classified hazardous locations according to CEC/NEC wiring method, or subject to local inspection authority having jurisdiction
Black Beauty™ fittings

- Weather-stabilized nylon
- UL 94V-2
- Temperature rating: -34 °C to 105 °C
- Meets Coast Guard CG293

Black Beauty liquidtight strain-relief fittings – Straight

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Trade or hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Cord range (in.)</th>
<th>A</th>
<th>B</th>
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<td>0.125–0.275</td>
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<tr>
<td>2690</td>
<td>⅜</td>
<td>0.33</td>
<td>0.125–0.275</td>
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<td>⅛</td>
<td>¼</td>
</tr>
<tr>
<td>2672</td>
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<td>0.250–0.400</td>
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<td>2673*</td>
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<td>0.400–0.560</td>
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<td>⅛</td>
<td>¼</td>
</tr>
<tr>
<td>2691*</td>
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<td>0.560–0.690</td>
<td>3</td>
<td>⅛</td>
<td>¼</td>
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<tr>
<td>2692*</td>
<td>⅝</td>
<td>0.54</td>
<td>0.660–0.780</td>
<td>3</td>
<td>⅛</td>
<td>¼</td>
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<td>⅛</td>
<td>¼</td>
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<td>1.850–2.190</td>
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<td>⅘</td>
<td>¼</td>
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</table>

* Remove sufficient outer covering of cable to permit conductors to pass through fitting body.
Black Beauty fittings

- Weather-stabilized nylon
- UL 94V-2
- Temperature rating: -34 °C to 105 °C
- Meets Coast Guard CG293

Black Beauty liquidtight strain-relief fittings – 90° elbow

<table>
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<tr>
<th>Cat. no.</th>
<th>Trade or hub size (in.)</th>
<th>Throat dia. (in.)</th>
<th>Cord range (in.)</th>
<th>Dimensions (in.)</th>
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</table>

* Remove sufficient outer covering of cable to permit conductors to pass through fitting body.
90° angle, standard size body.
Portable cord and cable fittings
WMG-PC series wiremesh grips for portable cord

Application
• Provides high gripping strength for adequate cable support and strain relief without damage to the cable sheath
• Compression of a tapered neoprene bushing assures the watertight integrity of the fittings

Cord and cable type
• S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVD

Features
• Prevents severe cord bends and pullouts
• Used with aluminum and/or steel fittings, including the Ranger series

Material
• Wiremesh made of stainless steel.
  Retaining rings made of aluminum.

Environment classification
• Ordinary locations

Range
• 0.187 in.–3.220 in.

How to select proper wiremesh grip:
1. Determine O.D. of portable cord (e.g. 0.200 in.)
2. Determine size of knockout or threaded hub (e.g. 1/4 in.)
3. Select cat. no. of strain-relief fitting (e.g. 2520, 2920AL)
4. Match O.D. with grip range and strain relief to determine cat. no. of wiremesh grip (e.g. 0.200 + 2520 = WMP-PC1)

Wiremesh grips are ordered separately and fit with your existing inventory of Ranger fittings and liquidtight strain-relief fittings. There’s no need to duplicate inventory.

Wiremesh grips support the liquidtight cord fittings series listed on the following page.
## Portable cord and cable fittings

WMG-PC series wiremesh grips for portable cord

### Wiremesh grips for portable cord

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Grip range (in.)</th>
<th>Ranger steel</th>
<th>Ranger aluminum</th>
<th>ABB steel</th>
<th>Ranger malleable iron</th>
<th>45° ABB steel</th>
<th>Ranger malleable iron</th>
<th>90° ABB steel</th>
<th>Ranger aluminum</th>
<th>ABB steel</th>
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<td>0.187–0.250</td>
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<td>2920AL</td>
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<td>4920</td>
<td>2200</td>
<td>4960</td>
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<td>WMG-PC2</td>
<td>0.250–0.375</td>
<td>2920S</td>
<td>2920AL</td>
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<td>2921AL</td>
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<td>2922AL</td>
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<td>2204</td>
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<td>4931</td>
<td>2210</td>
<td>4972</td>
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<td>2941AL</td>
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<td>4941</td>
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<td>WMG-PC7</td>
<td>0.625–0.750</td>
<td>2942S</td>
<td>2942AL</td>
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<td>2942AL</td>
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<td>WMG-PC9</td>
<td>0.750–0.875</td>
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<td>WMG-PC10</td>
<td>0.750–0.875</td>
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<td>2942AL</td>
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<td>2942AL</td>
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<td>WMG-PC15</td>
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<td>WMG-PC17</td>
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<td>WMG-PC20*</td>
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<td>WMG-PC21*</td>
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*Replacement gland nut supplied with these catalogue numbers only
## Portable cord and cable fittings

Nonmetallic cable fittings – Low profile for tight spots

Nylon cable fittings have a sturdy cable sealing mechanism that results in superior strain relief. The compact size ensures quick and easy installation in cramped spaces. The nonmetallic construction provides excellent corrosion, chemical and impact resistance. The glands have long threads and locknuts are available.

- Halogen-free
- Flame-retardant material rated UL 94V-0
- Rated IP 68 5 BAR, suitable for NEMA 4 enclosures
- UL listed, CSA certified for certain ranges of cable
- Working temperatures: -30 °C (-86 °F) to 80 °C (176 °F) continuous, 150 °C (276 °F) intermittent
- Meets VDE ratings

### Nonmetallic cable fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>Colour</th>
<th>Cable range Length of thread</th>
<th>Use ABB locknut cat. no.</th>
<th>Unit pkg.</th>
<th>Std. pkg.</th>
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<td><strong>NPT threads</strong></td>
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<tr>
<td>CC-NPT38-B</td>
<td>3⁄₈</td>
<td>Black</td>
<td>0.197–0.394 5–10</td>
<td>0.590 15</td>
<td>CI-1703PL*</td>
<td>50</td>
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<tr>
<td>CC-NPT38-G</td>
<td>3⁄₈</td>
<td>Grey</td>
<td>0.197–0.394 5–10</td>
<td>0.590 15</td>
<td>CI-1703PL*</td>
<td>50</td>
</tr>
<tr>
<td>CC-NPT12-B</td>
<td>1⁄₂</td>
<td>Black</td>
<td>0.394–0.551 10–14</td>
<td>0.590 15</td>
<td>LN501**</td>
<td>50</td>
</tr>
<tr>
<td>CC-NPT12-G</td>
<td>1⁄₂</td>
<td>Grey</td>
<td>0.394–0.551 10–14</td>
<td>0.590 15</td>
<td>LN501**</td>
<td>50</td>
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<tr>
<td>CC-NPT34-B</td>
<td>3⁄₄</td>
<td>Black</td>
<td>0.512–0.709 13–18</td>
<td>0.590 15</td>
<td>LN502**</td>
<td>25</td>
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<tr>
<td>CC-NPT34-G</td>
<td>3⁄₄</td>
<td>Grey</td>
<td>0.512–0.709 13–18</td>
<td>0.590 15</td>
<td>LN502**</td>
<td>25</td>
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<tr>
<td>CC-NPT1-B</td>
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<td>Black</td>
<td>0.709–0.984 18–25</td>
<td>0.709 18</td>
<td>LN503**</td>
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<tr>
<td>CC-NPT1-G</td>
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<td>0.709–0.984 18–25</td>
<td>0.709 18</td>
<td>LN503**</td>
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<td><strong>ISO/metric threads</strong></td>
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<tr>
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<td>M16</td>
<td>Grey</td>
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<tr>
<td>CC-ISO-20-G</td>
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<td>0.236–0.473 6–12</td>
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<td>CC-ISO-25-G</td>
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<td>CC-ISO-32-G</td>
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<td>CC-ISO-40-G</td>
<td>M40</td>
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<td>0.748–1.100 22–32</td>
<td>0.709 18</td>
<td>LN-ISO40-G</td>
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<td><strong>PG threads</strong></td>
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<td>CC-PG7-G</td>
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<td>0.315 8</td>
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<td>CC-PG9-G</td>
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<td>0.157–0.315 4–8</td>
<td>0.315 8</td>
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<td>CC-PG11-G</td>
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<td>0.197–0.394 5–10</td>
<td>0.315 8</td>
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<td>CC-PG135-G</td>
<td>134⁄₅</td>
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<td>0.236–0.473 6–12</td>
<td>0.354 9</td>
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<tr>
<td>CC-PG16-G</td>
<td>16</td>
<td></td>
<td>0.394–0.551 10–14</td>
<td>0.394 10</td>
<td>LN-PG16-G</td>
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<td>CC-PG21-G</td>
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<td>0.512–0.709 13–18</td>
<td>0.433 11</td>
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<td>CC-PG29-G</td>
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<td>0.433 11</td>
<td>LN-PG29-G</td>
<td>10</td>
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<tr>
<td>CC-PG36-G</td>
<td>36</td>
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<td>0.867–1.260 22–32</td>
<td>0.512 13</td>
<td>LN-PG36-G</td>
<td>10</td>
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</table>

* Not CSA Certified
** Only available in grey
### Portable cord and cable fittings

#### Metric fittings and accessories

##### Metric PG-to-NPT thread adapters

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Thread (matting) (in.)</th>
<th>Thread (at housing)</th>
</tr>
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<tbody>
<tr>
<td>PG11-38</td>
<td>1/8</td>
<td>PG11</td>
</tr>
<tr>
<td>PG16-50</td>
<td>1/2</td>
<td>PG16</td>
</tr>
<tr>
<td>PG21-75</td>
<td>3/4</td>
<td>PG21</td>
</tr>
<tr>
<td>PG29-100</td>
<td>1</td>
<td>PG29</td>
</tr>
<tr>
<td>PG29-125</td>
<td>1 1/4</td>
<td>PG29</td>
</tr>
<tr>
<td>PG36-125</td>
<td>1 1/4</td>
<td>PG36</td>
</tr>
<tr>
<td>PG36-150</td>
<td>1 1/2</td>
<td>PG36</td>
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</table>

##### Metric two-screw clamp fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable O.D. (in.)</th>
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<tbody>
<tr>
<td>CC11-38</td>
<td>0.400 – 0.470</td>
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<tr>
<td>CC11-38P*</td>
<td>0.250 – 0.325</td>
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<tr>
<td>CC135-50</td>
<td>0.400 – 0.535</td>
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<tr>
<td>CC16-50</td>
<td>0.455 – 0.625</td>
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<tr>
<td>CC21-75</td>
<td>0.513 – 0.815</td>
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<tr>
<td>CC29-100</td>
<td>0.800 – 0.175</td>
</tr>
<tr>
<td>CC36-125</td>
<td>1.050 – 0.450</td>
</tr>
<tr>
<td>CC42-150</td>
<td>1.500 – 0.800</td>
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* Plastic

##### Metric cord grip fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable O.D. (in.)</th>
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</thead>
<tbody>
<tr>
<td>CG11-38</td>
<td>0.200 – 0.470</td>
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<tr>
<td>CG11-38P*</td>
<td>0.325 – 0.340</td>
</tr>
<tr>
<td>CG135-50</td>
<td>0.285 – 0.545</td>
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<tr>
<td>CG16-50</td>
<td>0.285 – 0.625</td>
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<tr>
<td>CG21-75</td>
<td>0.395 – 0.790</td>
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<tr>
<td>CG29-100</td>
<td>0.780 – 0.060</td>
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<tr>
<td>CG36-125</td>
<td>0.960 – 0.375</td>
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<tr>
<td>CG42-150</td>
<td>1.630 – 0.650</td>
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</tbody>
</table>

* Plastic

##### Conduit entry blind plug

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Thread (at housing)</th>
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<tbody>
<tr>
<td>CXPT722</td>
<td>PG13.5</td>
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<td>CXPT723</td>
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<td>CXPT724</td>
<td>PG21</td>
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<td>CXPT725</td>
<td>PG29</td>
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<td>CXPT726</td>
<td>PG36</td>
</tr>
<tr>
<td>CXPT727</td>
<td>PG42</td>
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</table>
Service entrance cable fittings
Suggested specifications for service entrance fittings

- All service fittings shall be approved for the purpose by a nationally recognized testing laboratory, inspection agency or product evaluation organization.
- Where service raceway consists of a rigid metal conduit, intermediate metal conduit, electrical metallic tubing or where service entrance cable is used as service conductors, a suitable raintight service head conforming to Federal Standard W-C-586 shall be provided.
- Service raceway shall be securely fastened in place to the supporting surface at intervals as specified by the code using suitable straps and spacers; straps and spacers shall be of malleable iron or steel construction, hot-dipped galvanized or electro zinc plated conforming to Canadian Standards Association Standard C22.2 No. 18.4 and as manufactured by ABB: series 1275 or 4175 straps and series 1350 spacers; aluminum straps or spacers such as series 1275AL and series 1350AL may be substituted when installed in environmental conditions that are more than normally corrosive.
- For grounding and bonding of service raceway, end of raceway or the terminating fitting shall be equipped with bonding locknuts and insulated metallic grounding and bonding bushing as required.
- Bonding locknuts shall be of hardened steel or malleable iron construction, electro zinc plated, and provided with hardened bonding screws as manufactured by ABB, series 106 bonding locknuts.
- Insulated metallic grounding and bonding bushing shall be of malleable iron/steel construction, electro zinc plated and assembled with an insulator listed or certified for 150 °C/302 °F service as manufactured by ABB, series 3870.

---

01 Series 4175 pipe strap (EMT)
02 Series 1275/1275AL pipe strap (rigid metal conduit and IMC)
03 Series 1350/1350AL pipe spacer (rigid metal conduit IMC and EMT)
04 Series 3870 bonding and grounding bushing – insulated
05 Series 106 bonding locknut
Service entrance cable fittings
Suggested specifications for service entrance fittings

- Where service entrance cable is used as overhead service conductors and code requires use of a service head, entrance caps shall be installed; caps shall be cast metal type of suitable ferrous or nonferrous metal equipped with thermoset insulators and proper knockout openings; when installed with proper drip loop, caps must assure raintight conditions.

- Terminating fittings for service entrance cable (Type SE or USE) or underground feeder and branch – circuit cable (Type UF) in locations where exposed to intermittent or constant moisture or in dry locations and subjected to mechanical strain shall be of watertight strain-relief type as manufactured by ABB, series 2111 or 2116-TB; fittings shall be constructed of ferrous or nonferrous metal and equipped with taper-threaded hub, beveled moisture-resistant/oil-resistant synthetic rubber bushing. In dry locations, nylon-insulated two-screw type fittings of malleable iron/steel construction, electro zinc plated inside and outside including threads, such as series 3302M manufactured by ABB may be substituted.

- Where service entrance cable is terminated into a threadless opening using hub-type fittings, a gasket shall be provided between the outside of box or enclosure and fitting shoulder; gasket shall be of moisture-resistant/oil-resistant synthetic rubber type adequately protected by and permanently retained to a metallic retainer as manufactured by ABB, series 5262 or 5302.

- Service entrance cable shall be adequately supported at intervals enumerated in code using cable straps conforming to requirements of CSA Standard C22.2 No.18.4; cable straps shall be of malleable iron/steel construction, hot-dipped galvanized or electro zinc plated as manufactured by ABB, series 1341.

- At the point where the service cable enters the building, a suitable sill plate shall be provided; sill/wall plate shall be sealed to assure raintight conditions.
Service entrance cable fittings

Specifications

**Application**
- To connect service entrance cables to a meter box or an enclosure

**Features**
- Neoprene bushing, resists oil and water; grips cable the full length of the bushing, providing adequate strain relief without damaging outer jacket (A)
- Taper-threaded body (B)
- Stainless steel retaining ring protects cable jacket against abrasion; reduces installing torque effort (C)
- Rugged ribbed steel gland construction (D)
- Suitable for Type USE I75, USE I90 and USE B90 (CEC Table 19) service entrance cable

**Standard material/finish**
- Body: Zinc die cast/as cast
- Gland: Steel/electro zinc plated and chromate coated
- Retaining ring: Stainless steel/passivated
- Bushing: Neoprene/as molded

**Range**
- Oval (flat) cable size 0.260 x 0.500 through 1.062 x 1.765
- Type USE cable size (3) #12 through (3) 4/0 AWG conductors
- Hub size ½ in. through 2 in. NPT (taper pipe threads)

**Listing/certification**
- CEC Rule 6-300 (1) add (b) use underground service entrance with mechanical protection as per CEC Rule 12-012

**Conformity**
- UL514B, NEMA FB-1, Federal Standard H-28 (threads), NFPA70-2009 (ANSI)
- CSA C22.2 No. 18.3

Underground feeder cable fittings

**Application**
- To connect underground feeder cables to a box or an enclosure

**Features**
- Neoprene bushing resists oil and water; grips cable the full length of the bushing, providing adequate strain relief without damaging outer jacket (A)
- Taper-threaded body (B)
- Stainless steel retaining ring protects cable jacket against abrasion; reduces installing torque effort (C)
- Rugged ribbed steel gland construction (D)

**Standard material/finish**
- Body: Zinc die cast/as cast
- Gland: Steel/electro zinc plated and chromate coated
- Retaining ring: Stainless steel/passivated
- Bushing: Neoprene/as molded

**Range**
- Oval (flat) cable size 0.235 x 0.500 through 0.260 x 0.740
- Hub size ½ in. through 1 in. NPT (tapered pipe threads)

**Listing/certification**
- CEC Rule 30-1004 (d) Wiring method, underground, where deviation has been allowed for permanent outdoor floodlighting installation.

**Conformity**
- UL514B, NEMA FB-1, Federal Standard H-28 (threads), NFPA70-2009 (ANSI)
- CSA C22.2 No. 18.3
## Service entrance cable fittings

### Underground feeder cable fittings

Oil- and water-resistant neoprene bushing is especially designed for sealing around underground feeder cable. Stainless steel retaining ring provides a bearing surface for the gland nut and eliminates cable twist. Ribbed gland nut is strong and easily tightened with a wrench to make a connection of high strength.

### Underground liquidtight feeder cable fittings

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>2116-TB*</td>
<td>1/8</td>
<td>0.235 x 0.500</td>
<td>1 1/16</td>
<td>1/8</td>
<td>1</td>
<td>0.060</td>
<td>0.235</td>
<td>0.350</td>
<td>0.500</td>
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<td>1/8</td>
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<tr>
<td>2237</td>
<td>1/4</td>
<td>0.230 x 0.430</td>
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<td>1/8</td>
<td>1 1/16</td>
<td>0.080</td>
<td>0.230</td>
<td>0.320</td>
<td>0.430</td>
<td>1/16</td>
<td>1/8</td>
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<tr>
<td>2238</td>
<td>1/4</td>
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<td>1/8</td>
<td>1 1/16</td>
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<td>1/8</td>
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<td>1/8</td>
<td>1/8</td>
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</tbody>
</table>

* Not CSA Certified

### Diagrams

- Gland nut steel (zinc plated)
- Retainer stainless steel
- Tapered pipe thread
- Body die cast zinc (zinc plated)
- Neoprene bushing
- Max. body corners
- Across flats
- Neoprene bushing
- G max. gland corners

*Cat. no. 2116-TB may be nonmetallic*
Service entrance cable fittings

Watertight fittings for oval cables

A design with two tapers inside the body – a slow one and a fast one – permits the stocking of fewer fittings for varied cable sizes and allows maximum take-up. The tapered neoprene bushings are resistant to oil, sunlight and water. Hex gland and body take the same wrench opening and a stainless steel slip ring prevents cable from twisting as gland ring is being tightened. Threads on the body are tapered for water sealing.

---

Watertight fittings for oval cables

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Dimensions (in.)</th>
<th>Overall cable range (in.)</th>
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<td>¹⅞</td>
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<td>¹⅞</td>
<td>¹⅞</td>
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<td>½</td>
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</table>

Diagram

- Steel gland nut zinc plated
- Stainless steel retainer
- Zinc die cast body zinc plated
- Neoprene bushing
- Approx.
- Max. body corners
- Max. gland corners
- Tapered pipe thread NPS
- Diagram

---
Service entrance cable fittings
Cable straps and nylon underground feeder cable fittings

Each strap takes a wide range of sizes because of the rocking action of the foot. Hole is for ¼ in. screw. Malleable iron, hot-dipped galvanized construction.

—

Cable straps

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<th>B</th>
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<td>1¼</td>
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<td>1½</td>
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<td>1347</td>
<td>(3) 4/0</td>
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<td>2⅛</td>
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* Steel, hot dipped galvanized

—

Nylon UF cable fittings for corrosive environments

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<th>Cat. no.</th>
<th>Hub size (in.)</th>
<th>UF cable range (in.)</th>
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<th>B</th>
<th>C</th>
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<td>max.</td>
<td>max.</td>
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<td>1.570</td>
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—
Updated with corrections:

**Liquidtight flexible metal conduit fittings**

**Specifications**

*Ref. CE Code Rule 12-1300*

Liquidtight flexible metal conduit is a raceway of circular cross section having an outer liquidtight nonmetallic, sunlight-resistant jacket over a flexible metal core.

Liquidtight flexible metal conduit is permitted to be used for exposed or concealed work, in dry, damp or wet locations indoors and outdoors. Heavy-duty marked liquidtight flexible metal conduit is considered an acceptable wiring method in hazardous location; namely Class 1 Div 2, Class II & Class III.

Liquidtight flexible metal conduit is not permitted where subjected to mechanical injury. The conduit is not permitted to be used underground or embedded in cinder fill or concrete. It cannot be used as a general purpose raceway.

Use of liquidtight conduit is not permitted where any combination of ambient or conductor temperature will produce temperature in excess of that for which the jacket is rated or in locations where flexing at low temperature will injure jacket. Liquidtight flexible metal conduit is not permitted for conductors over 600 volts.

Liquidtight flexible conduit is available in ¼ in. through 6 in. trade size. Conduit is constructed with galvanized steel, aluminum or stainless steel core, regular or extra flex. Outer jacket is available for a variety of applications, e.g. oil resistant where exposed to cutting oils and for service temperature ranging from -50 °C to 150 °C.

Listed and certified conduit are constructed of galvanized steel core and thermoplastic jacket rated for maximum service temperature up to 75 °C and suitable for exposure to mineral oils but not to gasoline and similar solvents.

Conduit is required to be supported adequately, and bending is restricted to 360 degrees total.

Please refer to the following for further details and complete information:

1. UL 360 – Safety standards for liquidtight flexible steel conduit
2. UL 514A and 514B – Safety standards for outlet boxes and fittings
3. W-F-406 – Federal specification: Fittings for cable, power, electrical and conduit, metal, flexible
4. NEMA FB-1 – Standards publication: Fittings, cast metal boxes and conduit bodies for conduit, electrical metallic tubing and cable
5. EMP-1– JIC Electrical standards for mass production equipment
6. EGP-1 – JIC Electrical standards for general purpose machine tools
7. CE Code Section 12-1300 – Wiring methods (liquidtight metal conduit)
8. CSA C22.2 No. 56-17 – Flexible metallic conduit and liquidtight flexible metal conduit
9. CSA C22.2 Nos. 18.1 and 18.3 – Safety standards for outlet boxes, conduit boxes and fittings

Please note

The excerpts and other material herein, whether relating to the Canadian Electrical Code 2018 Part I, CSA Group, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation. Reference to original or primary source material and data is mandatory before any application or use is made of the product.
Liquidtight flexible metal conduit fittings

Suggested specifications for liquidtight flexible metal conduit fittings

- Liquidtight flexible metal conduit used shall be of the type with galvanized steel core inside and outside and outer thermoplastic jacket suitable for the ambient environmental conditions. Jacket shall be positively locked to core to prevent sleeving. Where used as an equipment grounding conductor, the conduit shall conform to applicable standards UL 360/CSA C22.2 No. 56.
- Flexible conduit when installed shall have sufficient slack to avoid sharp flexing and straining due to vibration and thermal expansion/constriction. Conduit shall be installed in such a manner that liquids will tend to run off the surface instead of draining toward the fittings.
- Where liquidtight flexible metal conduit terminates into a threaded or threadless opening, the conduit shall be assembled with approved liquidtight fittings. Fittings used shall be reusable type of malleable iron/steel construction, electro-zinc plated inside and outside, furnished with nylon-insulated throat and taper-threaded hub as manufactured by ABB, series 5331.
- Approved fittings installed shall be:
  (1) Designed to prevent sleeving, assure plastic (raceway jacket) to plastic (gasket) seal.
  (2) Equipped with grounding device to assure ground continuity irrespective of raceway core construction. Grounding device if inserted into raceway and directly in contact with conductors shall have rolled over edges for sizes under 5 inches.
- At the point of flexing (i.e. where raceway leaves fitting), the thermoplastic raceway jacket shall not be permitted to be in direct contact with metal.
- Where liquidtight flexible metal conduit is terminated into a threadless opening using a threaded hub fitting such as series 5331, a suitable moisture-resistant/oil-resistant synthetic rubber gasket such as series 5262 shall be provided between the outside of box or enclosure and fitting shoulder. Gasket shall be adequately protected by and permanently bonded to a metallic retainer.
- Where liquidtight flexible metallic raceway is installed in outdoor or indoor locations and is exposed to environmental conditions that are more than normally corrosive to exposed surfaces, PVC-coated liquidtight flexible metal conduit fittings such as series 3321 manufactured by ABB shall be used. Fittings shall be coated with a nominal thickness of 0.040 inches PVC and must meet the general requirements for liquidtight flexible metal conduit fittings indicated above.
- Liquidtight fittings required to couple threaded end of a fitting or pipe where rotation of fitting or pipe is limited or restricted shall be reusable type of malleable iron/steel construction, electro-zinc plated inside/outside with taper-threaded hub as manufactured by ABB, series 41. Fittings shall be equipped with a moisture-resistant/oil-resistant synthetic rubber gasket. Metal-to-metal seal or metal-to-thermoplastic seal for this application shall be considered unacceptable.
Liquidtight flexible metal conduit fittings
Specifications

Application
• Used where flexible metal raceway is installed in outdoor or indoor locations where exposed to continuous or intermittent moisture
• To positively bond conduit to box or enclosure

Features
• Ability to install quickly with low torque effort
• Ground cone design offers following advantages:
  (1) Compresses metallic convolutions; provides high quality ground contact with low impedance and high raceway holding power (A)
  (2) Single helical thread on ground cone is easy to install without cross threading; accepts variations in raceway diameters and convolution pitch (B)
  (3) Rolled over edge protects conductors (C)

Sealing ring design has following exclusive features:
• Grips and seals at leading and trailing edge – will not abrade raceway jacket (D)
• Provided with grooves on inside diameter for anti-sleeving (E)
• Shoulders on both ends for extra sealing (F)
• Symmetrical shape assures foolproof assembly
• Can be disconnected and reused
• Watertight/oil-tight installation at box or enclosure termination is assured by:
  (1) External taper-thread hub on 5331 series and use of sealing gasket 5262 series (G)
  (2) Captive sealing O-ring on 5361 series (H)
  (3) Taper-tapped hole on 5271 series
• For hazardous location applications, please refer to CEC Section 18
• CEC Rule 12-1306 stipulates “a separate bonding conductor shall be installed in liquidtight flexible conduit in accordance with section 10”
• ¼ in. and 1¼ in. sizes laboratory tested to carry ground fault current of up to 1000 amps RMS with duration of fault current 3 cycles

• Conforms with JIC requirements
• Available with imperial, ISO and PG threaded hub

Standard material
5331-5361-5271 Series
• Body, gland, locknut and ground cones: All steel or malleable iron
• Sealing ring and insulator: All thermoplastic rated min. -20 °C max. 105 °C
• Sealing gasket: Stainless steel and Buna N

5231 AL Series
• All copper-free aluminum (non-insulated)

Standard finish
5331-5361-5271 Series
• Electro zinc plated and chromate coated

5231 AL Series
• Copper-free aluminum

Range
• 5331 Series ¼ in. through 6 in. conduit
• 5341 Series ¼ in. through 4 in. conduit
• 5351 Series ¼ in. through 4 in. conduit
• 5361 Series ¼ in. through 4 in. conduit
• 5271 Series ¼ in. through 1¼ in. conduit
• 5231 AL Series ¼ in. through 4 in. conduit
  All hubs provided with taper pipe threads (NPT)

Conformity
• UL 514B
• CSA C22.2 No. 18.3
• NEMA FB-1
• NFPA 70-2008 (ANSI)
• JIC EGP1, JIC EMP1
• Federal Specification W-F-406
• Federal standard H-28 (Threads)
**Liquidtight flexible metal conduit fittings**

High temperature flexible metal liquidtight fittings

**Suggested specification**

Where liquidtight flexible metal fittings are required in high temperature environments up to 150 °C:
- Fitting’s body, gland, locknut and ground cone shall be constructed from steel or malleable iron, electro-zinc plated and chromate coated for corrosion protection
- Fitting’s sealing ring and throat insulator will be molded from high temperature nylon suitable for temperatures up to 150 °C and a minimum UL flammability rating of UL94V-2
- The fitting shall be constructed to accept high temperature flexible metal liquidtight conduit rated to 150 °C (works with our ATX series conduit)
- The fitting shall have a plastic throat insulator to protect conductors

- The fitting shall have a steel ground cone to:
  - provide high quality ground contact
  - single helical thread for easy installation into conduit
  - rolled over edge to protect conductors
- The fitting shall have a plastic sealing ring to:
  - grip and seal at leading and trailing edge (double bevel up to 2 in.) of conduit jacket
  - provide a watertight/oil-tight seal
- The fitting shall be able to terminate the conduit in either a threaded or threadless opening
- For applications where termination into a threaded opening is required, the fitting shall have external tapered NPT threads
- For applications where termination into a threadless opening is required, use an acceptable sealing ring
- Fittings shall conform to UL 514B
- Accepted manufacturers:
  ABB – 5331-HT straight series, 5341-HT 45° series, 5351-HT 90° series; 5262 sealing ring series

---

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<th>B</th>
<th>C</th>
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</table>

Please note: There are no CSA or UL standards applicable for high temperature fittings or conduit. Therefore neither HT fittings nor HT conduit bear these certifications/listings.

---

**Diagram**

Liquidtight flexible metal conduit fittings

---

**Diagram**

Liquidtight flexible metal conduit fittings
Liquidtight flexible metal conduit fittings
For control and power cable applications

Steel, malleable iron or aluminum tapered hub threads. With Safe-Edge™ ground cone through 4 in. and double bevel sealing ring through 2 in.

Straight fittings

**3⁄8 in. conduit fitting has 1⁄4 in. hub
UL Listed liquidtight; and CSA Certified watertight
* Not CSA Certified
+ Malleable Iron

---

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* UL and CSA not applicable

---

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<td>6</td>
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** 3⁄8 in. conduit fitting has 1⁄4 in. hub
UL Listed liquidtight; and CSA Certified watertight
* Not CSA Certified
+ Malleable Iron
**LIQUIDTIGHT FLEXIBLE METAL CONDUIT FITTINGS**

---

**Liquidtight flexible metal conduit fittings**

For control and power cable applications

---

Malleable iron, tapered hub threads. With Safe-Edge ground cone through 4 in. and double bevel sealing ring through 2 in.

---

### 45° Angle fittings*

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<th>Size (in.)</th>
<th>A</th>
<th>B</th>
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**3⁄8 in. conduit fitting has 1⁄2 in. hub.**

UL Listed liquidtight; and CSA Certified watertight

For wiremesh grips refer to page B120

---

### 90° angle fittings

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**For hazardous location applications, please refer to CEC Section 18.**

UL Listed liquidtight; and CSA Certified watertight

* Not CSA Certified

For wiremesh grips refer to page B120.
Wiremesh grips for liquidtight conduit fittings

Prevents severe conduit bends and pullout.

<table>
<thead>
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<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Liquidtight fittings</th>
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Order wiremesh grip separately; no need to duplicate inventory.
**Liquidtight flexible metal conduit fittings**

**Stainless steel**

The strength of steel – with superior corrosion-resistance.

Until now, there’s been no ideal conduit fitting solution for use in heavily corrosive environments. Traditional metallic fittings corrode and require frequent replacement. Nonmetallic fittings offer less strength, lower UV-resistance and don’t stand up well in extreme temperatures. Stainless steel liquidtight conduit connectors are constructed of 304 stainless steel to resist corrosion while offering high strength, high UV-resistance and high endurance. Choose among a full range of fittings in straight, 45° and 90° angled configurations for 3/8 in. to 2 in. conduit sizes. Look for the distinctive blue insulator and sealing ring for assurance of ABB quality.

- Ideal for industrial MRO and OEM applications in food and beverage, pharmaceutical, petrochemical, waste water, salt water and other corrosive environments
- Connects metallic-cored liquidtight conduit to a box or enclosure
- 304 stainless steel body and gland-nut resists corrosion far better than other metallic fittings
- Stronger, more UV-resistant than nonmetallic fittings
- Available in straight, 45° and 90° angled configurations to fit conduit from 3/8 in. to 2 in.
- UL Listed ratings: 3, 3R, 4, 4X
- 5262 Sealing ring gasket (sold separately) includes a stainless steel retaining ring to prevent elongation of the gasket and is made from Santoprene™ material, ensuring a superior seal

---

**Liquidtight conduit fittings – Stainless steel**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Dimensions (in.)</th>
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Locknut not included
* 3/8 in. conduit fitting has 1/4 in. hub

---

**Diagrams**

![Diagram A](image1.png)

![Diagram B](image2.png)

![Diagram C](image3.png)

![Diagram D](image4.png)
**Liquidtight flexible metal conduit fittings**

Quick-Connect fittings

**Quick-Connect liquidtight fittings. Push. Tighten. Done.**
The quality of the Liquidtight Systems fitting in a labour-saving Quick-Connect fitting. Innovative push-in technology with a captive sealing ring makes it installation-ready.

Flexible conduit is used in a wide variety of challenging environments. You need fittings to match. That’s why ABB offers four different liquidtight lines, including our new time-saving, Quick-Connect fittings.

- Ideal for any industrial MRO or OEM application where high performance is required
- Often used in food and beverage, wastewater and chemical processing industries
- Each liquidtight fitting is designed to exceed expectations
- Simple installation and worry-free connections

**Standard material/finish**
Gland nut, ground cone, body, locknut: Steel
Finish: Zinc plated and coated
Sealing ring, insulator: Nylon
Temp. rating: 105 °C

---

### Quick-Connect liquidtight fittings

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<th>Dimensions (in.)</th>
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**Liquidtight flexible metal conduit fittings**

**Liquidtight-to-rigid adapters and CHASE fittings**

---

**Liquidtight adapter to connect liquidtight to threaded rigid conduit**

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<td>5277</td>
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<td>3 3/32</td>
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With Safe-Edge ground cone and double bevel sealing ring (through 2 in.)

For Hazardous Location applications, please refer to CEC Section 18.

---

**Nylon-insulated CHASE fittings – Steel or malleable iron**

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<td>5366</td>
<td>1 1/8</td>
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<td>2 1/8</td>
</tr>
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<td>5367</td>
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<td>5368</td>
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<td>4 1/8</td>
<td>3 3/32</td>
</tr>
<tr>
<td>5369</td>
<td>3</td>
<td>5 1/8</td>
<td>4 1/8</td>
</tr>
<tr>
<td>5370</td>
<td>4</td>
<td>5 1/8</td>
<td>4 1/8</td>
</tr>
</tbody>
</table>

With Safe-Edge ground cone and double bevel sealing ring (through 2 in.)

Note: UL Listed liquidtight; and CSA certified watertight

For hazardous location applications, please refer to CEC Section 18.

---

**Nylon-insulated 90° angle CHASE connectors**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5371 †</td>
<td>1/8</td>
<td>1 1/8</td>
</tr>
<tr>
<td>5372 †</td>
<td>1/8</td>
<td>1 1/8</td>
</tr>
<tr>
<td>5373 †</td>
<td>1/8</td>
<td>1 1/8</td>
</tr>
<tr>
<td>5374 †</td>
<td>1</td>
<td>1 1/8</td>
</tr>
</tbody>
</table>

With Safe-Edge ground cone and double bevel sealing ring

Note: UL Listed liquidtight; and CSA certified watertight. Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 1 and 2; Class III, Div. 1 and 2, where general purpose equipment is specifically permitted per NEC Section 500-2(a).

† UL Listed as grounding means under NEC 351-7.
Liquidtight flexible metal conduit fittings
Specifications – External bonding

Application
• Used where external bonding jumper is required around liquidtight flexible metal conduit
• To positively bond conduit to box or enclosure
• Used where flexible raceway is installed in outdoor or indoor locations where exposed to continuous or intermittent moisture

Features
• Designed with provision to install bonding jumper in several positions
• Designed to accept mechanical or compression lug
• Ability to install quickly with low torque effort
  (i) Compresses metallic convolutions; assures ground contact with low impedance and high raceway holding power (A)
  (ii) Single helical thread on ground cone is easy to install without cross threading; accepts variations in raceway diameters and convolution pitch (B)
  (iii) Rolled over edge protects conductors (C)
• Sealing ring design has following exclusive features:
  (i) Grips and seals at leading and trailing edge – will not abrade raceway jacket (D)
  (ii) Provided with grooves on inside diameter for anti-sleeving (E)
  (iii) Shoulders on both ends for extra sealing (F)
  (iv) Symmetrical shape assures foolproof assembly
• Can be disconnected and reused
• Watertight/oil-tight installation at box or enclosure termination is assured by:
  1. External taper thread hub on 5331GR series and use of sealing gasket 5262 series (G)
  2. Taper-tapped hole on 5271 series
• For hazardous location applications, please refer to CEC Section 18
• Conforms with JIC requirements
• CEC Rule 12-1306 stipulates “a separate bonding conductor shall be installed in liquidtight flexible conduit in accordance with Section 10”
• CEC Rule 10-618 (3): “The armour of flexible metal conduit and liquidtight flexible metal conduit shall not be considered as fulfilling the requirements of a bonding conductor for the purposes of this rule, and a separate bonding conductor shall be run within the conduit.”

Standard material
• Lugs: High conductivity copper (for copper conductor only)
• Body, gland, locknut and ground cones: All steel or malleable iron
• Sealing ring and insulator: All thermoplastic
• Sealing gasket: Stainless steel and Buna N
• Strap: Steel
• Standard finish: All electro zinc plated and chromate coated except lugs
• Lugs: Bright dipped

Range
• 5331GR Series (straight fittings with male hub): ¾ in. through 6 in. conduit
• 5341GR Series (45°): ¾ in. through 4 in. conduit
• 5351GR Series (90°): ¾ in. through 4 in. conduit
• 5271GR Series (straight fittings with female hub): ¼ in. through 1¼ in conduit
• All hubs provided with taper pipe threads (NPT)

Conformity
• UL 467
• UL 514B
• CSA C22.2 No. 18.3
• CSA C22.2 No. 41
• NEMA FB-1
• NFPA 70-2008 (ANSI)
• JIC EGP1
• JIC EMP1
• Federal Specification W-F-406
• Federal Standard H-28 (threads)
Liquidtight flexible metal conduit fittings
Specifications – External bonding

01 Series 5331GR
02 Series 5271GR
03 Sleeving
Raceway jacket pulls off – exposing core and affecting liquidtight termination. Feature (E) on sealing ring helps overcome this problem.
# Liquidtight flexible metal conduit fittings

**Grounding fittings**

Malleable iron, tapered hub threads.

## Straight grounding fittings

| Cat. no. | Steel insulated | Steel non-insulated | Aluminum non-insulated | Conduit size (in.) | Dimensions (in.) | Ground wire (AWG) |
|----------|----------------|
| 5331GR** | 5231GR         | 5231ALGR*          |                        | ⅛                  | 1⅛              | 1⅛              | ⅞              | 14–8          |
| 5332GR   | 5232GR         | 5232ALGR*          |                        | ⅛                  | 1⅛              | 1⅛              | ⅞              | 14–8          |
| 5333GR   | 5233GR         | 5233ALGR*          |                        | ⅛                  | 1⅛              | 1⅛              | ⅞              | 14–4          |
| 5334GR   | 5234GR         | 5234ALGR*          |                        | 1                   | 1½              | 2½              | ⅞              | 14–4          |
| 5335GR   | 5235GR         | –                 |                        | 1⅛                 | 3½              | 4½              | ⅞              | 8–1/0         |
| 5336GR   | 5236GR         | –                 |                        | 1½                 | 3½              | 2⅝              | ⅞              | 4–2/0         |
| 5337GR   | 5237GR         | –                 |                        | 2                   | 3½              | 3½              | ⅞              | 4–2/0         |
| 5338GR   | 5238GR         | –                 |                        | 2½                 | 4½              | 4½              | ⅞              | 1–2/0         |
| 5339GR   | 5239GR         | –                 |                        | 3                   | 5½              | 4½              | ⅞              | 1–2/0         |
| 5340GR   | 5240GR         | –                 |                        | 4                   | 6½              | 4½              | ⅞              | 2–4/0         |
| 5341GR** | 5241GR**       |                   |                        | 6                   | 8½              | 8½              | ⅞              | 2–4/0         |

* Not CSA Certified

** ⅛ in. conduit fittings have ⅛ in. trade size hub. With Safe-Edge ground cone (through 4 in.) and double bevel sealing ring (through 2 in.).

## 45° Angle grounding fittings

Malleable iron, tapered hub threads.

| Cat. no. | Steel insulated | Steel non-insulated | Conduit size (in.) | Dimensions (in.) | Ground wire (AWG) |
|----------|----------------|
| 5341GR** | 5241GR**       |                   | ⅛                  | 1⅛              | 1⅛              | ⅞              | 14–8          |
| 5342GR   | 5242GR         |                   | ⅛                  | 1⅛              | 1⅛              | ⅞              | 14–8          |
| 5343GR   | 5243GR         |                   | ⅛                  | 1½              | 2½              | ⅞              | 14–4          |
| 5344GR   | 5244GR         |                   | 1                  | 1½              | 2½              | ⅞              | 14–4          |
| 5345GR   | 5245GR         |                   | 1½                 | 2½              | 3½              | ⅞              | 8–1/0         |
| 5346GR   | 5246GR         |                   | 1½                 | 3½              | 3½              | ⅞              | 4–2/0         |
| 5347GR   | 5247GR         |                   | 2                  | 3½              | 3½              | ⅞              | 4–2/0         |
| 5348GR   | 5248GR         |                   | 2½                 | 4½              | 4½              | ⅞              | 2–4/0         |
| 5349GR   | 5249GR         |                   | 3                  | 5½              | 4½              | ⅞              | 1–2/0         |
| 5350GR   | 5250GR         |                   | 4                  | 6½              | 4½              | ⅞              | 2–4/0         |

** ⅛ in. conduit fittings have ⅛ in. trade size hub. With Safe-Edge ground cone (through 4 in.) and double bevel sealing ring (through 2 in.).
### 90° Angle grounding fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Steel insulated</th>
<th>Steel non-insulated</th>
<th>Aluminum non-insulated</th>
<th>Conduit size (in.)</th>
<th>Dimensions (in.)</th>
<th>Ground wire (AWG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5351GR**</td>
<td>5251GR**</td>
<td>5251ALGR*</td>
<td></td>
<td>1/8</td>
<td>1-13/64</td>
<td>14–8</td>
</tr>
<tr>
<td>5352GR</td>
<td>5252GR</td>
<td>5252ALGR*</td>
<td></td>
<td>1/4</td>
<td>1-13/64</td>
<td>14–8</td>
</tr>
<tr>
<td>5353GR</td>
<td>5253GR</td>
<td>5253ALGR*</td>
<td></td>
<td>1/2</td>
<td>1-1/8</td>
<td>14–4</td>
</tr>
<tr>
<td>5354GR</td>
<td>5254GR</td>
<td>5254ALGR*</td>
<td></td>
<td>1</td>
<td>1-13/64</td>
<td>14–4</td>
</tr>
<tr>
<td>5355GR</td>
<td>5255GR</td>
<td>–</td>
<td></td>
<td>1-1/2</td>
<td>2-7/64</td>
<td>8–1/0</td>
</tr>
<tr>
<td>5356GR</td>
<td>5256GR</td>
<td>–</td>
<td></td>
<td>1-1/2</td>
<td>3-1/4</td>
<td>4–2/0</td>
</tr>
<tr>
<td>5357GR</td>
<td>5257GR</td>
<td>–</td>
<td></td>
<td>2</td>
<td>3-7/64</td>
<td>4–2/0</td>
</tr>
<tr>
<td>5358GR</td>
<td>5258GR</td>
<td>–</td>
<td></td>
<td>2-1/2</td>
<td>4-1/4</td>
<td>1</td>
</tr>
<tr>
<td>5359GR</td>
<td>5259GR</td>
<td>–</td>
<td></td>
<td>3</td>
<td>5-1/4</td>
<td>1</td>
</tr>
<tr>
<td>5360GR</td>
<td>5260GR</td>
<td>–</td>
<td></td>
<td>4</td>
<td>6-1/4</td>
<td>1</td>
</tr>
</tbody>
</table>

* Not CSA Certified

** 3/8 in. conduit fittings have 1/2 in. trade size hub. With Safe-Edge ground cone (through 4 in.) and double bevel sealing ring (through 2 in.).
Liquidtight flexible metal conduit fittings

Grounding fittings

For retrofit applications. Includes strap, nut and bolt.

External grounding strap

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Swing radius (in.)</th>
<th>Bolt size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR1W</td>
<td>¼</td>
<td>1</td>
<td>10–24</td>
</tr>
<tr>
<td>GR2W</td>
<td>⅞</td>
<td>1¼</td>
<td>10–24</td>
</tr>
<tr>
<td>GR3W</td>
<td>1</td>
<td>1½</td>
<td>⅝–20</td>
</tr>
<tr>
<td>GR4W</td>
<td>1¼</td>
<td>1½</td>
<td>⅝–20</td>
</tr>
<tr>
<td>GR5W</td>
<td>1½</td>
<td>1½</td>
<td>⅝–18</td>
</tr>
</tbody>
</table>

Liquidtight to rigid external ground adaptor

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Overall length (in.)</th>
<th>Bolt size</th>
<th>Lug range (AWG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5271GR*</td>
<td>¼</td>
<td>1½</td>
<td>10–24</td>
<td>14–8</td>
</tr>
<tr>
<td>5272GR</td>
<td>⅞</td>
<td>1½</td>
<td>10–24</td>
<td>14–8</td>
</tr>
<tr>
<td>5273GR</td>
<td>1</td>
<td>1½</td>
<td>⅝–20</td>
<td>14–4</td>
</tr>
<tr>
<td>5274GR</td>
<td>1¼</td>
<td>2¼</td>
<td>⅝–20</td>
<td>14–4</td>
</tr>
<tr>
<td>5275GR</td>
<td>1½</td>
<td>2½</td>
<td>⅝–18</td>
<td>8–1/0</td>
</tr>
<tr>
<td>5276GR</td>
<td>1½</td>
<td>2½</td>
<td>⅝–16</td>
<td>8–1/0</td>
</tr>
</tbody>
</table>

* ⅛ in. conduit fittings have ⅜ in. trade size hub

Revolver™ grounding device

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>38GR-TB</td>
<td>⅛</td>
</tr>
<tr>
<td>12GR-TB</td>
<td>⅛</td>
</tr>
<tr>
<td>34GR-TB</td>
<td>⅛</td>
</tr>
<tr>
<td>1GR-TB</td>
<td>1</td>
</tr>
</tbody>
</table>

The grounding device is a combination of a set screw and a grounding lug that can be used to retrofit any existing liquidtight fitting to an externally grounded version.
Liquidtight flexible metal conduit fittings
Specifications – PVC-coated fittings

Application
- Used where liquidtight flexible metal conduit is installed in outdoor or indoor locations where exposed to environmental conditions that are more than normally corrosive to exposed surfaces
- To positively bond conduit to box or enclosure

Features
- PVC coated to protect fitting from extremely corrosive surroundings without affecting integrity of electrical grounding path (A)
- Provided with overlapping sleeve for additional seal (B)
- Ability to install quickly with low torque effort
- Ground cone design offers following advantages:
  (i) Compresses metallic convolutions; provides high quality ground contact with low impedance and high raceway holding power (C)
  (ii) Single helical thread on ground cone is easy to install without cross threading; accepts variations in raceway diameters and convolution pitch (D)
  (iii) Rolled over edge protects conductors (E)
- Sealing ring design has following exclusive features:
  (1) Grips and seals at leading and trailing edge – will not abrade raceway jacket (F)
  (2) Provided with grooves on inside diameter for anti-sleeving (G)
  (3) Shoulders on both ends for extra sealing
  (4) Symmetrical shape assures foolproof assembly
- Hardened steel or malleable iron locknut (H)
- Can be disconnected and reused
- Watertight/oil-tight installation at box or enclosure termination is provided by external taper thread hub and sealing gasket (I)
- Conforms with JIC requirements

Standard material
- Body, gland, locknut and ground cones: All steel or malleable iron
- Sealing ring and insulator: All thermoplastic
- Sealing gasket, retainer: Stainless steel
- Resilient seal: Buna N
- Coating: PVC

Standard finish
- Outside of body and gland: PVC coated 0.040 in. min. thickness
- Inside of body and gland: Electro zinc plated and chromate coated
- Locknut, sealing gasket, and retainer: Electro zinc plated and chromate coated

Range
- 3321, 3361 and 3341 series ⅜ in. through 4 in. conduit
- All hubs provided with taper pipe threads (NPT)

Conformity
- UL 514B
- CSA C22.2 No. 18.3
- NEMA FB-1
- NFPA 70-2008 (ANSI)
- JIC EGP1
- JIC EMP1
- Federal Specification W-F-406
- Federal Standard H-28 (threads)
Liquidtight flexible metal conduit fittings
Corrosion-resistant PVC-jacketed liquidtight fittings

Straight PVC coated
- Nylon insulated
- Steel or malleable iron
- NPT hub threads

90° PVC coated
- Nylon insulated
- NPT hub threads

45° PVC coated
- Nylon insulated
- NPT hub threads

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
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<tbody>
<tr>
<td>3321</td>
<td>⅛</td>
<td>1⅛₄₈</td>
<td>2⅛₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3322</td>
<td>⅛</td>
<td>1⅛₄₈</td>
<td>2⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3323</td>
<td>⅜</td>
<td>1⅟₄₄₈</td>
<td>2⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3324</td>
<td>1</td>
<td>2⅛₄₄₈</td>
<td>3⅜₄₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3325</td>
<td>1⅛</td>
<td>2⅛₄₈</td>
<td>3⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3326</td>
<td>1½</td>
<td>3⅛₄₈</td>
<td>4⅘₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3327</td>
<td>2</td>
<td>3⅛₄₈</td>
<td>5⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3328-TB</td>
<td>2½</td>
<td>4⅘₄₈</td>
<td>6⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3329</td>
<td>3</td>
<td>5⅛₄₈</td>
<td>6⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3331</td>
<td>4</td>
<td>6½₄₈</td>
<td>6⅜₄₈</td>
<td>⅜</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
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<td>2⅛₄₈</td>
<td>⅜</td>
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<tr>
<td>3362</td>
<td>⅛</td>
<td>1⅛₄₈</td>
<td>2⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3363</td>
<td>⅜</td>
<td>1⅟₄₄₈</td>
<td>2⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3364</td>
<td>1</td>
<td>2⅛₄₄₈</td>
<td>3⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3365</td>
<td>1⅛</td>
<td>2⅛₄₈</td>
<td>3⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3366</td>
<td>1½</td>
<td>3⅛₄₈</td>
<td>4⅘₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3367</td>
<td>2</td>
<td>3⅛₄₈</td>
<td>5⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3368</td>
<td>2½</td>
<td>4⅘₄₈</td>
<td>6⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3369</td>
<td>3</td>
<td>5⅛₄₈</td>
<td>6⅜₄₈</td>
<td>⅜</td>
</tr>
<tr>
<td>3371</td>
<td>4</td>
<td>6½₄₈</td>
<td>6⅜₄₈</td>
<td>⅜</td>
</tr>
</tbody>
</table>

Complies with 3IC standards and Federal Specs W-F-406B, W-F-408B
## Liquidtight flexible metal conduit fittings

### Specifications – Liquidtight unions for threaded hubs

**Application**
- To couple threaded end of a fitting or a pipe to a tapped opening in a box or enclosure where rotation of fitting or pipe is limited or restricted

**Features**
- Provides high quality bond between fitting or pipe to the union
- Provided with resilient seal (A)
- Resilient seal subjected to controlled deformation; positive seal and reusability are assured (B)
- Unique design centralizes throat openings of threaded hub and union (C)
- Permits orientation of fitting in any predetermined direction for a safe, functional and neat assembly
- Provided with taper-threaded hub for liquidtight assembly (D)
- Straight pipe threads on gland accept a straight or taper-threaded hub on fitting or pipe to be coupled (E)
- Suitable for hazardous location use per CEC Rule J18106 Class I, Div. 1; CEC Rule 18202 Class II, Div. 1; CEC Rule 18252 Class II, Div. 2; CEC Rule 18302 Class III, Div. 1; CEC Rule 18352 Class III, Div. 2;

**Standard material/finish**
- Gland: Steel/electro zinc plated and chromate coated
- Body: Steel/electro zinc plated and chromate coated
- O-ring: Buna N/as molded

**Range**
- Hub (external thread) 1/2 in. and 3/4 in. NPT
- Gland (internal threads) 3/4 in. and 1 in. NPS

**Conformity**
- UL 514B
- CSA C22.2 No. 18.3
- NEMA FB1
- ANSI C80.4
- NFPA 702008 (ANSI)
- Federal Specification WF408
- Federal Specification WF406
- Federal Standard H28 (threads)

Steel, zinc plated and chromated. Ideal for angle fittings where swing clearance is not available.

### Diagram

**Liquidtight union for threaded hub**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Diagram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41TB</td>
<td>1/2</td>
<td>1 1/16</td>
</tr>
<tr>
<td>42TB</td>
<td>3/4</td>
<td>1 3/16</td>
</tr>
</tbody>
</table>
### Liquidtight flexible metal conduit fittings
### Metallic angled fittings and KO plugs

#### 45° Metallic fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Hub thread (NPT)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3730-TB*</td>
<td>⅛</td>
<td>⅛–14</td>
<td>1⅛, 2⅛⅝</td>
</tr>
<tr>
<td>3731-TB</td>
<td>¼</td>
<td>¼–14</td>
<td>⅛, 2⅛⅝</td>
</tr>
<tr>
<td>3732</td>
<td>⅛</td>
<td>⅛–14</td>
<td>⅛, 2⅛⅝</td>
</tr>
<tr>
<td>3733-TB</td>
<td>1</td>
<td>1–11⅛</td>
<td>1⅛, 3⅝</td>
</tr>
<tr>
<td>3734-TB</td>
<td>1⅛</td>
<td>1⅛–11⅛</td>
<td>2⅞, 4⅝</td>
</tr>
<tr>
<td>3735-TB</td>
<td>1½</td>
<td>1½–11⅛</td>
<td>2⅞, 4⅝</td>
</tr>
<tr>
<td>3736</td>
<td>2</td>
<td>2–11⅛</td>
<td>3⅞⅝, 5½⅝</td>
</tr>
</tbody>
</table>

* Not UL Listed
CSA not applicable

#### 90° Metallic fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Hub thread (NPT)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3740*</td>
<td>⅛</td>
<td>⅛–14</td>
<td>1⅛, 1⅛</td>
</tr>
<tr>
<td>3741</td>
<td>¼</td>
<td>¼–14</td>
<td>⅛, 1⅛</td>
</tr>
<tr>
<td>3742</td>
<td>⅛</td>
<td>⅛–14</td>
<td>⅛, 1⅛</td>
</tr>
<tr>
<td>3743-TB</td>
<td>1</td>
<td>1–11⅛</td>
<td>1⅛, 2⅞</td>
</tr>
<tr>
<td>3744-TB</td>
<td>1⅛</td>
<td>1⅛–11⅛</td>
<td>2¼, 3⅛</td>
</tr>
<tr>
<td>3745</td>
<td>1½</td>
<td>1½–11⅛</td>
<td>2¼, 3⅛</td>
</tr>
<tr>
<td>3746-TB</td>
<td>2</td>
<td>2–11⅛</td>
<td>2⅞⅝, 4⅞</td>
</tr>
</tbody>
</table>

* Not UL Listed
CSA not applicable

### Liquidtight KO plugs

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5710</td>
<td>⅛</td>
<td>1⅞⅝</td>
</tr>
<tr>
<td>5711</td>
<td>¼</td>
<td>1⅛⅝</td>
</tr>
<tr>
<td>5712</td>
<td>1/8</td>
<td>1⅛⅝</td>
</tr>
<tr>
<td>5713</td>
<td>1½</td>
<td>2⅞⅝</td>
</tr>
<tr>
<td>5714</td>
<td>1⅛</td>
<td>2⅞⅝</td>
</tr>
<tr>
<td>5715</td>
<td>2</td>
<td>3⅞⅝</td>
</tr>
<tr>
<td>5716</td>
<td>2½</td>
<td>3⅞⅝</td>
</tr>
<tr>
<td>5717</td>
<td>3</td>
<td>4⅞⅝</td>
</tr>
<tr>
<td>5718</td>
<td>4</td>
<td>5⅞⅝</td>
</tr>
</tbody>
</table>

UL Listed liquidtight
CSA not applicable
Meets Coast Guard Regulation CG293

---

**NEMA 3R, 4, 6 and 13**

Temperature range — -30 °C to 105 °C.
Liquidtight flexible metal conduit fittings
Specifications – Liquidtight sealing gaskets

Application
- When used with an externally threaded fitting, provides a tight seal against oil, fumes or moisture at the knockout opening

Features
- 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

Standard material
- Retainer: Stainless steel
- Sealing material: Buna N

Range
- ½ in. through 4 in. hub size

NEMA 3R, 4, 6 and 13
For use with T&B Fittings. Sealing material resists oil, coolants and hydraulic fluids as well as water.

Sealing ring with stainless steel retainer

---

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>5299**</td>
<td>¼</td>
<td>0.80</td>
<td>0.11</td>
</tr>
<tr>
<td>5261**</td>
<td>½</td>
<td>0.95</td>
<td>0.11</td>
</tr>
<tr>
<td>5262</td>
<td>¾</td>
<td>1.16</td>
<td>0.18</td>
</tr>
<tr>
<td>5263</td>
<td>½</td>
<td>1.49</td>
<td>0.19</td>
</tr>
<tr>
<td>5264</td>
<td>1</td>
<td>1.75</td>
<td>0.19</td>
</tr>
<tr>
<td>5265</td>
<td>1¼</td>
<td>2.15</td>
<td>0.22</td>
</tr>
<tr>
<td>5266</td>
<td>1½</td>
<td>2.42</td>
<td>0.23</td>
</tr>
<tr>
<td>5267</td>
<td>2</td>
<td>2.92</td>
<td>0.23</td>
</tr>
<tr>
<td>5268</td>
<td>2½</td>
<td>3.44</td>
<td>0.23</td>
</tr>
<tr>
<td>5269</td>
<td>3</td>
<td>4.08</td>
<td>0.23</td>
</tr>
<tr>
<td>5270</td>
<td>4</td>
<td>5.29</td>
<td>0.31</td>
</tr>
</tbody>
</table>

** UL not applicable
## Liquidtight flexible metal conduit fittings

### MS fittings

Liquidtight flexible metal and liquidtight flexible nonmetallic fittings with internal threads to accept AN-MS fitting shells.

**Material: Steel**

### Liquidtight flexible metal/MS fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Internal thread</th>
<th>Trade size (in.)</th>
<th>AN-MS conn. shell size</th>
<th>Thread size (UNEF2B)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTA03810</td>
<td></td>
<td>3/8</td>
<td>10SL, 12, 12S</td>
<td>3/4-24</td>
<td>1 1/8</td>
</tr>
<tr>
<td>LTA03814</td>
<td></td>
<td>3/8</td>
<td>14, 145</td>
<td>1/2-20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>LTA05014</td>
<td></td>
<td>1/2</td>
<td>14, 145</td>
<td>1/2-20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>LTA05016</td>
<td></td>
<td>1/2</td>
<td>16, 165</td>
<td>1/2-20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>LTA05018</td>
<td></td>
<td>1/2</td>
<td>18</td>
<td>1-20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>LTA07516</td>
<td></td>
<td>1/4</td>
<td>16, 165</td>
<td>1/2-20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>LTA07518</td>
<td></td>
<td>1/4</td>
<td>18</td>
<td>1-20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>LTA07520</td>
<td></td>
<td>1/4</td>
<td>20, 22</td>
<td>1 1/4-18</td>
<td>1 3/8</td>
</tr>
<tr>
<td>LTA10020</td>
<td></td>
<td>1</td>
<td>20, 22</td>
<td>1 1/4-18</td>
<td>1 3/8</td>
</tr>
<tr>
<td>LTA10024</td>
<td></td>
<td>1</td>
<td>25, 28</td>
<td>1 1/4-18</td>
<td>1 3/8</td>
</tr>
</tbody>
</table>
## Liquidtight flexible metal conduit fittings

**PG fittings**

Fittings for liquidtight flexible metal conduit with metric threads of PG form (DIN 40430).

### PG metric thread liquidtight fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Flexible conduit size (in.)</th>
<th>Metric PG thread</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td><strong>Nylon-insulated straight fittings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7330**</td>
<td>¼</td>
<td>9</td>
<td>36</td>
</tr>
<tr>
<td>7360**</td>
<td>¼</td>
<td>9</td>
<td>36</td>
</tr>
<tr>
<td>7361*</td>
<td>¼</td>
<td>11</td>
<td>40</td>
</tr>
<tr>
<td>7362*</td>
<td>¼</td>
<td>13.5</td>
<td>40</td>
</tr>
<tr>
<td>7363*</td>
<td>¼</td>
<td>16</td>
<td>41</td>
</tr>
<tr>
<td>7364*</td>
<td>¼</td>
<td>21</td>
<td>43</td>
</tr>
<tr>
<td>7365</td>
<td>1</td>
<td>29</td>
<td>56</td>
</tr>
<tr>
<td>7366</td>
<td>1¼</td>
<td>36</td>
<td>67</td>
</tr>
<tr>
<td>7367</td>
<td>1½</td>
<td>42</td>
<td>72</td>
</tr>
<tr>
<td>7368</td>
<td>2</td>
<td>48</td>
<td>81</td>
</tr>
<tr>
<td><strong>Nylon-insulated 45° angle fittings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7341</td>
<td>¾</td>
<td>11</td>
<td>27</td>
</tr>
<tr>
<td>7342</td>
<td>¾</td>
<td>13.5</td>
<td>27</td>
</tr>
<tr>
<td>7343</td>
<td>¾</td>
<td>16</td>
<td>30</td>
</tr>
<tr>
<td>7344-TB</td>
<td>¾</td>
<td>21</td>
<td>34</td>
</tr>
<tr>
<td>7345</td>
<td>1</td>
<td>29</td>
<td>44</td>
</tr>
<tr>
<td>7346</td>
<td>1¼</td>
<td>36</td>
<td>51</td>
</tr>
<tr>
<td>7347</td>
<td>1½</td>
<td>42</td>
<td>60</td>
</tr>
<tr>
<td>7348-TB</td>
<td>2</td>
<td>48</td>
<td>73</td>
</tr>
<tr>
<td><strong>Nylon-insulated 90° angle fittings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7351</td>
<td>¾</td>
<td>11</td>
<td>37</td>
</tr>
<tr>
<td>7352</td>
<td>¾</td>
<td>13.5</td>
<td>37</td>
</tr>
<tr>
<td>7353</td>
<td>¾</td>
<td>16</td>
<td>40</td>
</tr>
<tr>
<td>7354</td>
<td>¾</td>
<td>21</td>
<td>44</td>
</tr>
<tr>
<td>7355</td>
<td>1</td>
<td>29</td>
<td>56</td>
</tr>
<tr>
<td>7356</td>
<td>1¼</td>
<td>36</td>
<td>70</td>
</tr>
<tr>
<td>7357</td>
<td>1½</td>
<td>42</td>
<td>75</td>
</tr>
<tr>
<td>7358</td>
<td>2</td>
<td>48</td>
<td>87</td>
</tr>
</tbody>
</table>

UL Listed liquidtight

*CSA Certified dust-tight and watertight

**UL not applicable and not CSA Certified**
### Liquidtight flexible metal conduit fittings

**ISO metric fittings**

Fittings for liquidtight flexible metal conduit with metric threads of ISO form (BS-4568-SA BS 162).

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Flexible conduit size (in.)</th>
<th>Metric ISO thread</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9330</td>
<td>¼</td>
<td>16</td>
<td>36</td>
</tr>
<tr>
<td>9331</td>
<td>¼</td>
<td>20</td>
<td>36</td>
</tr>
<tr>
<td>9306</td>
<td>¾ ¼</td>
<td>16</td>
<td>36</td>
</tr>
<tr>
<td>9360</td>
<td>½</td>
<td>16</td>
<td>40</td>
</tr>
<tr>
<td>9361</td>
<td>½</td>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>9362</td>
<td>½</td>
<td>20</td>
<td>42</td>
</tr>
<tr>
<td>9363</td>
<td>½</td>
<td>25</td>
<td>45</td>
</tr>
<tr>
<td>9364</td>
<td>½</td>
<td>32</td>
<td>54</td>
</tr>
</tbody>
</table>

**Nylon-insulated 45° angle fittings**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Flexible conduit size (in.)</th>
<th>Metric ISO thread</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9340</td>
<td>¾</td>
<td>16</td>
<td>27</td>
</tr>
<tr>
<td>9341</td>
<td>¾</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td>9342</td>
<td>¾</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td>9343TB</td>
<td>¾</td>
<td>25</td>
<td>31</td>
</tr>
<tr>
<td>9344</td>
<td>¾</td>
<td>32</td>
<td>34</td>
</tr>
</tbody>
</table>

**Nylon-insulated 90° angle fittings**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Flexible conduit size (in.)</th>
<th>Metric ISO thread</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9350</td>
<td>½</td>
<td>16</td>
<td>35</td>
</tr>
<tr>
<td>9351</td>
<td>½</td>
<td>20</td>
<td>35</td>
</tr>
<tr>
<td>9352TB</td>
<td>½</td>
<td>20</td>
<td>39</td>
</tr>
<tr>
<td>9353TB</td>
<td>½</td>
<td>25</td>
<td>43</td>
</tr>
<tr>
<td>9354TB</td>
<td>½</td>
<td>32</td>
<td>48</td>
</tr>
</tbody>
</table>

UL Listed liquidtight
# LIQUIDTIGHT FLEXIBLE METAL CONDUIT FITTINGS

## Liquidtight flexible metal conduit fittings

**NPT/MS adaptors**

Mechanical adaptor with internal threads to mate with NPT threaded fittings and MS type fittings.

### Material: Aluminum

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**NPT/MS fitting adaptors**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>NPT thread (in.)</th>
<th>AN-MS fitting shell size</th>
<th>Thread size</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSA05014</td>
<td>1/8</td>
<td>14, 14S</td>
<td>1/4–20 UNEF-2B</td>
<td>1.000</td>
</tr>
<tr>
<td>MSA05016</td>
<td>1/4</td>
<td>16, 16S</td>
<td>1/4–20 UNEF-2B</td>
<td>1.000</td>
</tr>
<tr>
<td>MSA05018</td>
<td>1/4</td>
<td>18</td>
<td>1–20 UNEF-2B</td>
<td>1.125</td>
</tr>
<tr>
<td>MSA07516</td>
<td>1/4</td>
<td>16, 16S</td>
<td>1/4–20 UNEF-2B</td>
<td>1.250</td>
</tr>
<tr>
<td>MSA07518</td>
<td>1/4</td>
<td>18</td>
<td>1–20 UNEF-2B</td>
<td>1.250</td>
</tr>
<tr>
<td>MSA07520</td>
<td>1/4</td>
<td>20, 22</td>
<td>1/4–18 UNEF-2B</td>
<td>1.375</td>
</tr>
<tr>
<td>MSA10020</td>
<td>1</td>
<td>20, 22</td>
<td>1/4–18 UNEF-2B</td>
<td>1.500</td>
</tr>
<tr>
<td>MSA10024</td>
<td>1</td>
<td>24, 28</td>
<td>1/4–18 UNEF-2B</td>
<td>1.625</td>
</tr>
<tr>
<td>MSA10032</td>
<td>1</td>
<td>32</td>
<td>1/4–18 UNS-2B</td>
<td>2.000</td>
</tr>
<tr>
<td>MSA10036</td>
<td>1</td>
<td>36</td>
<td>2–18 UNS-2B</td>
<td>2.250</td>
</tr>
</tbody>
</table>

*Not CSA Certified*
Liquidtight flexible nonmetallic conduit fittings
Specifications – Type A conduit fittings

Application
• To provide a liquidtight, dust-tight connection between flexible, nonmetallic conduit and a box or an enclosure

Features
• Serrated design provides high mechanical pullout strength (A)
• Unique component parts (body/gland) design ensures positive seal between conduit and fitting (B)
• Tapered thread hub and sealing O-ring provide a liquidtight/dust-tight seal to a box or an enclosure (C)
• High strength, chemical-resistant, non-burning, non-dripping thermoplastic construction
• Smooth insulated body throughout for maximum dielectric strength
• Captive O-ring and reduced number of parts save installation time (D)

Standard material
• Body: Thermoplastic
• Gland: Thermoplastic
• O-ring: Neoprene
• Locknut: Steel (case-hardened)

Standard finish
• Body, gland and O-ring: As molded
• Locknut: Electro zinc-plated

Range
• Conduit size: ½ in. through 1¼ in.
• Hub size: ½ in. through 1¼ in. NPT
Liquidtight flexible nonmetallic conduit fittings
Suggested specifications for Type A conduit and fittings

- Type A liquidtight flexible nonmetallic conduit shall be seamless type adequately reinforced with one or more layers of flexible braided reinforcing cords. Conduit jacket shall be of non-kinking oil-resistant/water-resistant flame-retardant material suitable for ambient environmental conditions.
- Where Type A flexible nonmetallic conduit terminates into a threaded or threadless opening, the conduit shall be cut square, deburred, installed with sufficient slack to reduce effects of vibration and assembled with approved fittings such as series 6302 or 3720 manufactured by ABB. Fittings shall be of malleable iron/steel/thermoplastic construction with taper-threaded hub and:

  1. Ferrous metallic fittings shall be electro-zinc plated inside outside and equipped with a nylon-insulated throat.
  2. Thermoplastic fittings shall be of high impact chemical-resistant, non-burning, non-dripping thermoplastic.
  3. Fittings shall be provided with a captive, moisture-resistant/oil-resistant synthetic rubber gasket.
Liquidtight flexible nonmetallic conduit fittings
Type A conduit fittings

- Designed especially for the Type A, all-plastic raceways now in use for dynamic machine tool applications
- Fittings are constructed of a high-strength, chemically resistant thermoplastic tougher than the raceway itself
- Neoprene sealing ring is furnished with fitting providing a liquidtight seal for knockout applications

Thermoplastic fittings for liquidtight flexible nonmetallic conduit Type A

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Dimensions (in.)</th>
<th>A</th>
<th>B</th>
<th>C cross corners</th>
</tr>
</thead>
<tbody>
<tr>
<td>6302</td>
<td>½</td>
<td>0.60</td>
<td>1.68</td>
<td>1.48</td>
<td></td>
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<tr>
<td>6303</td>
<td>⅜</td>
<td>0.61</td>
<td>1.85</td>
<td>1.76</td>
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<tr>
<td>6304</td>
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<td>0.77</td>
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</tr>
<tr>
<td>6305</td>
<td>1⅛</td>
<td>0.79</td>
<td>2.30</td>
<td>2.67</td>
<td></td>
</tr>
</tbody>
</table>

90° angle fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Dimensions (in.)</th>
<th>A</th>
<th>B</th>
<th>C cross corners</th>
</tr>
</thead>
<tbody>
<tr>
<td>6322</td>
<td>½</td>
<td>0.60</td>
<td>1.56</td>
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<tr>
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<td>6325</td>
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<td>2.67</td>
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</tbody>
</table>

Metallic fittings for liquidtight flexible nonmetallic conduit Type A

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>Hub thread (NPT)</th>
<th>Dimensions (in.)</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>3720-TB*</td>
<td>⅛</td>
<td>⅝–14</td>
<td>1⅛</td>
<td>1⅛</td>
<td>2</td>
</tr>
<tr>
<td>3721-TB</td>
<td>⅜</td>
<td>⅝–14</td>
<td>1¼</td>
<td>1⅛</td>
<td>2⅛</td>
</tr>
<tr>
<td>3722-TB</td>
<td>⅜</td>
<td>⅝–14</td>
<td>1</td>
<td>1⅛</td>
<td>2⅛</td>
</tr>
<tr>
<td>3723</td>
<td>1</td>
<td>1–11½</td>
<td>1⅛</td>
<td>1⅛</td>
<td>2⅛</td>
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<tr>
<td>3724-TB</td>
<td>1⅛</td>
<td>1¼–11½</td>
<td>2½</td>
<td>2½</td>
<td>2</td>
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<tr>
<td>3725</td>
<td>1⅜</td>
<td>1¼–11½</td>
<td>2⅛</td>
<td>2⅛</td>
<td>3⅛</td>
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<tr>
<td>3726</td>
<td>2</td>
<td>2–11½</td>
<td>3½⅛</td>
<td>3½</td>
<td>3⅛</td>
</tr>
</tbody>
</table>

* Not UL Listed

Corrosion-resistant applications
Meets Coast Guard CG293
Use with our LNM-P conduit.

- Nylon-insulated throat
- Sealing ring to seal knockouts
- Steel or malleable iron
- UL Listed

- NPT hub threads to seal in female threads
- High mechanical pull-out strength
- Provides positive seal against water, oil and dust
**Liquidtight flexible nonmetallic conduit fittings**

Specifications – Bullet® liquidtight fittings for liquidtight flexible nonmetallic conduit Type B and tubing

**Plastic Bullet liquidtight fittings feature:**
- Fitting assembles to conduit without disassembly and is designed to be installed with positive installation criteria (gland bottoms on body shoulder)
- Rugged low-profile nonmetallic body and gland construction (1); the fitting is equipped with a steel locknut to firmly secure fitting to box or an enclosure and a sealing O-ring
- Captive sealing O-ring (2) with predetermined compression for a reliable seal at enclosure
- Fitting ferrule designed to accept variations in conduit inside diameter and is tolerant of field conduit cuts (3)
- Ferrule profile designed to reduce friction between conduit I.D. and ferrule (4) allowing conduit to seat properly for an effective seal
- Outer surface of clamping fingers provided with friction-reducing ridges (5) for ease of installation; the inner surface is designed with conduit biting teeth to enhance clamping and sealing action (6)
- Performance of fittings tested to simulate adverse installation conditions
- Provides a double sealing action (7)
- Elongated gland nut profile (8) designed to provide additional strain relief for 90° pull and an easy hand grip
- Performance of fitting unaffected by exposure to detergents, cleaners and sanitizers commonly encountered in food processing plants and typical industrial environment; also unaffected by cutting fluids, wiring pulling compounds and marine environment
- Meets industry standards for cold impact and simulated hammer blow

**Standard material/finish:**
- Body gland: Weather-stabilized thermoplastic (black)
- O-ring: Nitrile (blue)
- Locknut: Steel/electro-zinc plated
- Material temperature rating: Thermoplastic -40 °C to 105 °C
- Material flammability rating: UL94V-2

**Conformity**
- CSA C22.2 #227.2 & CSA C22.2 #227.3
- UL514B
- Watertight requirements of NEMA Type 4 and Type 4X
- Federal Standard H-28 (NPT threads)
- There is no CEC Rule to use nonmetallic liquidtight conduit and fittings in Class I, Zone 2 or Class I, Division 2; Rule 18-202 (4) (b) Class II, Division 1; Rule 18-252 (4) Class II, Division 2; Rule 18-302 (4) Class III, Division 1

**Application:**
- A series of nonmetallic fittings designed to provide a liquidtight seal when terminating liquidtight nonmetallic conduit (UL Type B) or liquidtight nonmetallic tubing to a box or enclosure with knockout opening or a threaded hub
Liquidtight flexible nonmetallic conduit fittings

Bullet liquidtight fittings for nonmetallic liquidtight conduit Type B and tubing.

### Plastic Bullet fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Fig.</th>
<th>Trade size (in.)</th>
<th>A±0.015 (0.040) in. (mm)</th>
<th>*B± 0.035 (0.90) in. (mm)</th>
<th>C±0.015 (0.40) across corner in. (mm)</th>
<th>Min. throat dia. D in. (mm)</th>
<th>E Thread NPT</th>
<th>F* in. (mm) approx.</th>
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</thead>
<tbody>
<tr>
<td>LT38P</td>
<td>1</td>
<td>¼</td>
<td>0.570 (14.48)</td>
<td>1.595 (40.51)</td>
<td>1.354 (34.39)</td>
<td>0.417 (10.59)</td>
<td>¼–14</td>
<td>–</td>
</tr>
<tr>
<td>LT438P</td>
<td>2</td>
<td>¼</td>
<td>0.570 (14.48)</td>
<td>2.012 (51.10)</td>
<td>1.354 (34.39)</td>
<td>0.417 (10.59)</td>
<td>¼–14</td>
<td>1.534 (38.95)</td>
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<tr>
<td>LT938P</td>
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<td>¼</td>
<td>0.570 (14.48)</td>
<td>1.380 (35.05)</td>
<td>1.354 (34.39)</td>
<td>0.417 (10.59)</td>
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<td>1.880 (47.75)</td>
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<tr>
<td>LT50P</td>
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<td>0.570 (14.48)</td>
<td>1.636 (41.55)</td>
<td>1.448 (36.78)</td>
<td>0.550 (13.97)</td>
<td>¼–14</td>
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</tr>
<tr>
<td>LT450P</td>
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<td>½</td>
<td>0.570 (14.48)</td>
<td>2.092 (53.14)</td>
<td>1.448 (36.78)</td>
<td>0.550 (13.97)</td>
<td>¼–14</td>
<td>1.590 (40.39)</td>
</tr>
<tr>
<td>LT950P</td>
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<td>½</td>
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<td>1.489 (37.82)</td>
<td>1.448 (36.78)</td>
<td>0.550 (13.97)</td>
<td>¼–14</td>
<td>1.986 (50.44)</td>
</tr>
<tr>
<td>LT75P</td>
<td>1</td>
<td>¾</td>
<td>0.582 (14.78)</td>
<td>1.757 (44.63)</td>
<td>1.740 (44.20)</td>
<td>0.740 (18.80)</td>
<td>¼–14</td>
<td>–</td>
</tr>
<tr>
<td>LT475P</td>
<td>2</td>
<td>¾</td>
<td>0.582 (14.78)</td>
<td>2.452 (62.28)</td>
<td>1.740 (44.20)</td>
<td>0.740 (18.80)</td>
<td>¼–14</td>
<td>1.821 (46.25)</td>
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<td>LT975P</td>
<td>3</td>
<td>¾</td>
<td>0.582 (14.78)</td>
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<td>1.740 (44.20)</td>
<td>0.740 (18.80)</td>
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<tr>
<td>LT100P</td>
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<td>1</td>
<td>0.726 (18.44)</td>
<td>1.923 (48.84)</td>
<td>2.068 (52.53)</td>
<td>0.940 (23.88)</td>
<td>1–11⅛</td>
<td>–</td>
</tr>
<tr>
<td>LT4100P</td>
<td>2</td>
<td>1</td>
<td>0.726 (18.44)</td>
<td>2.684 (68.17)</td>
<td>2.068 (52.53)</td>
<td>0.940 (23.88)</td>
<td>1–11⅛</td>
<td>2.034 (51.66)</td>
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<tr>
<td>LT9100P</td>
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<td>1</td>
<td>0.726 (18.44)</td>
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<td>2.068 (52.53)</td>
<td>0.940 (23.88)</td>
<td>1–11⅛</td>
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<tr>
<td>LT125P</td>
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<td>1 ¼</td>
<td>0.750 (19.05)</td>
<td>2.164 (54.97)</td>
<td>2.494 (63.35)</td>
<td>1.257 (31.93)</td>
<td>1¼–11⅛</td>
<td>–</td>
</tr>
<tr>
<td>LT4125P</td>
<td>2</td>
<td>1 ¼</td>
<td>0.750 (19.05)</td>
<td>3.264 (82.91)</td>
<td>2.494 (63.35)</td>
<td>1.257 (31.93)</td>
<td>1¼–11⅛</td>
<td>2.385 (60.58)</td>
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<tr>
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<td>1 ¼</td>
<td>0.750 (19.05)</td>
<td>2.564 (65.13)</td>
<td>2.494 (63.35)</td>
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<td>2.856 (72.54)</td>
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<td>1.453 (36.91)</td>
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</tr>
<tr>
<td>LT4150P</td>
<td>2</td>
<td>1 ½</td>
<td>0.767 (19.48)</td>
<td>3.605 (91.57)</td>
<td>2.784 (70.71)</td>
<td>1.453 (36.91)</td>
<td>1¼–11⅛</td>
<td>2.604 (66.14)</td>
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<td>1 ½</td>
<td>0.767 (19.48)</td>
<td>2.854 (72.49)</td>
<td>2.784 (70.71)</td>
<td>1.453 (36.91)</td>
<td>1¼–11⅛</td>
<td>3.144 (79.86)</td>
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<tr>
<td>LT200P</td>
<td>1</td>
<td>2</td>
<td>0.794 (20.17)</td>
<td>2.605 (66.17)</td>
<td>3.362 (85.39)</td>
<td>1.883 (47.83)</td>
<td>2–8</td>
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</tr>
<tr>
<td>LT4200P</td>
<td>2</td>
<td>2</td>
<td>0.794 (20.17)</td>
<td>4.210 (106.93)</td>
<td>3.362 (85.39)</td>
<td>1.883 (47.83)</td>
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<td>3.050 (77.47)</td>
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<td>0.794 (20.17)</td>
<td>3.432 (87.17)</td>
<td>3.362 (85.39)</td>
<td>1.883 (47.83)</td>
<td>2–8</td>
<td>3.675 (93.34)</td>
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</tbody>
</table>

* After assembly

---

**Suggested specification:**

Where liquidtight flexible nonmetallic conduit (UL and CSA Type B) or liquidtight flexible nonmetallic tubing is terminated to a box or enclosure, the nonmetallic fittings used shall be able to be installed without disassembly and provide a positive installation criteria. In the installed condition, the fitting must provide a seal meeting watertight requirements of NEMA Type 4 and Type 4X. The performance of fittings shall be unaffected by exposure to detergents, sanitizers, cutting fluids, wire pulling compounds and oil-based industrial paints. The fitting must also be capable of withstanding marine environment and cold impact simulating a hammer blow. Installed fittings shall be of the elongated gland type as manufactured by ABB, LT38P series.
**BULLET® Quick connect™ liquidtight fitting**

For liquidtight flexible nonmetallic conduit Type B and tubing

Bullet® Quick Connect™ fitting allows for a fast and effective installation, greatly speeding up the process!

**Features & benefits**
- Single-piece fitting (no locknut required)
- Quick and easy installation without access to the inside
- Corrosion resistant
- Connector assembles to conduit without disassembly
- Provides a double sealing action
- Swivel mechanism allows for a fast and easy conduit installation
- Elongated gland nut profile designed to provide additional strain relief for 90° pull and an easy hand grip
- Connector ferrule designed to accept variations in conduit inside diameter and is tolerant of field conduit cuts
- Performance of fitting unaffected by exposure to detergents, cleaners, and sanitizers commonly encountered in food processing plants and typical industrial environment; also unaffected by cutting fluids, wiring pulling compounds and Marine environment
- Meets industry standards for cold impact

**Applications**
- A series of nonmetallic connectors designed to provide a liquidtight seal when terminating liquidtight nonmetallic conduit (U.L. Type B) to a box
- Ideal for panel builders and volume installers

**Conforms to**
- C.S.A. 22.2 No. 18.3-12
- ANSI/UL514B
- Watertight requirements of Type 4 and Type 4x

**Material / Materials / Finishes**
- Body Gland: Weather stabilized thermoplastic
- Friction washer
- Material Flammability rating: UL94-V2

**Temperature range**
- -18°C to +105°C (-2°F to +221°F)

**Color**
- Black
- Gray
- Light gray

**Chemical resistance**
- See publication TDS000081

---

### Technical data

<table>
<thead>
<tr>
<th>Part no.*</th>
<th>Trade size (in)</th>
<th>A (0.015)</th>
<th>B (0.035)</th>
<th>C (0.040)</th>
<th>D across flats</th>
<th>E min.</th>
<th>Hole size max.</th>
<th>Hole size min.</th>
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</thead>
<tbody>
<tr>
<td>LT38P-QC-X**</td>
<td>¼</td>
<td>0.393</td>
<td>10.00</td>
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<td>66.51</td>
<td>1.075</td>
<td>31.60</td>
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<td>0.393</td>
<td>10.00</td>
<td>2.57</td>
<td>65.44</td>
<td>1.244</td>
<td>31.60</td>
<td>1.327</td>
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<tr>
<td>LT100P-QC-X</td>
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<td>0.393</td>
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<td>3.03</td>
<td>77.16</td>
<td>1.772</td>
<td>45.00</td>
<td>1.642</td>
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</table>

Note: Product must be installed in accordance with applicable national and local electrical codes.

* Replace the “X” of the part number by one of the following:
  - B = black (RAL 9005), G = gray (RAL 7001), LG = light gray (RAL 7035)
  - " UL component recognized

These connectors are Certified as components and intended to be used in electrical equipment, where the suitability is determined in the end use application.

---

### Removal tool

**Product selection**

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Standard size (NPT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPG-03B-RT</td>
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<tr>
<td>NPG-050-RT</td>
<td>⅛</td>
</tr>
<tr>
<td>NPG-075-RT</td>
<td>⅛</td>
</tr>
<tr>
<td>NPG-100-RT</td>
<td>1</td>
</tr>
</tbody>
</table>

**Removal tool**
- Push from inside the enclosure using this tool to easily remove the Bullet® quick connect™ liquidtight fitting
- Sold separately (Light grey plastic - RAL 7035)

---

### Dimensions

Wall thickness: 0.020" to 0.157"
Liquidtight flexible nonmetallic conduit fittings
Bullet liquidtight fittings for nonmetallic liquidtight conduit Type B and tubing.

Metallic Bullet fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Fig.</th>
<th>Trade size (in.)</th>
<th>A±0.030 (0.80)</th>
<th>B±0.060* (1.50)</th>
<th>C±0.045 (1.15)</th>
<th>D Thread NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT38M</td>
<td>1</td>
<td>1/8</td>
<td>1.156 (29.4)</td>
<td>1.500 (38.1)</td>
<td>0.562 (14.3)</td>
<td>-</td>
</tr>
<tr>
<td>LT438M</td>
<td>2</td>
<td>1/4</td>
<td>1.156 (29.4)</td>
<td>1.962 (49.8)</td>
<td>0.562 (14.3)</td>
<td>-</td>
</tr>
<tr>
<td>LT938M</td>
<td>3</td>
<td>3/8</td>
<td>1.156 (29.4)</td>
<td>1.312 (33.3)</td>
<td>0.625 (15.9)</td>
<td>1.375 (34.9)</td>
</tr>
<tr>
<td>LT50M</td>
<td>1</td>
<td>1/4</td>
<td>1.375 (34.9)</td>
<td>1.562 (39.7)</td>
<td>0.562 (14.3)</td>
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<tr>
<td>LT450M</td>
<td>2</td>
<td>1/4</td>
<td>1.375 (34.9)</td>
<td>1.875 (47.6)</td>
<td>0.562 (14.3)</td>
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<td>LT950M</td>
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<td>1.750 (44.4)</td>
<td>0.625 (15.9)</td>
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<tr>
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<td>1</td>
<td>1.875 (47.6)</td>
<td>2.062 (52.4)</td>
<td>0.750 (19.0)</td>
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</tr>
<tr>
<td>LT4100M</td>
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<td>2.250 (57.1)</td>
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<tr>
<td>LT9100M</td>
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<td>LT4125M</td>
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<td>1/4</td>
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<td>2.750 (69.8)</td>
<td>0.812 (20.6)</td>
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<tr>
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<td>3.500 (88.9)</td>
<td>0.875 (22.2)</td>
<td>3.437 (87.3)</td>
</tr>
</tbody>
</table>

**Suggested specification:**
Where liquidtight flexible nonmetallic conduit (UL and CSA Type B) or liquidtight flexible nonmetallic tubing is terminated to a box or enclosure, the metallic fittings used shall be able to be installed without disassembly and provide positive installation criteria. In the installed condition, the fitting must provide a seal, meeting watertight requirements of NEMA Type 4 and Type 4X with conduit and NEMA Type 4 enclosures with tubing. Installed fittings shall be as manufactured by ABB, LT38M series.

**Material:**
- Body/gland: Steel/malleable iron
- Insert: Nylon
When you have a conduit application in a liquidtight environment, it’s time to load up the Bullet. ABB introduces the ISO metric Bullet liquidtight fittings for use with the \( \frac{3}{8} \) in., \( \frac{1}{2} \) in. and \( \frac{3}{4} \) in. NMT and NMC nonmetallic liquidtight conduit series.

The Bullet liquidtight fitting and NMT nonmetallic conduit are suited for OEM applications as in the machine tool industry where environments include continuous motion, vibration and exposure to moisture, oil, dirt and dust.

The Bullet liquidtight fitting and NMT nonmetallic conduit are also suitable for construction applications where ISO metric threading and liquidtight systems are installed.

The Xtra flex® system offers a lightweight, liquidtight flexible conduit solution for industrial applications. The Xtra flex system allows fast, easy installation and high performance in demanding industrial applications.
Armoured cable and flexible metal conduit fittings
Specifications – Armoured cable

Armoured cable (Type AC90) Ref. CEC Rule 12-600

All armoured cables may employ copper or aluminum or copperclad aluminum conductors with the following sizes and are rated for 600 volts or less:

- No. 14 AWG to no. 1 AWG copper
- No. 12 AWG to no. 1 AWG aluminum or copperclad aluminum

Armoured cable can be used for both exposed and concealed locations.

Armoured cable is not permitted in locations where it will be subjected to physical damage or corrosive fumes. Armoured cable cannot be used for direct burial in earth.

Codes require that cable shall be supported with straps or staples without damaging conductors. Certain precautions are prescribed in code where cable is installed through joist rafters or similar wood members.

According to CEC Rule 12-610
(1) Where conductors issue from armour, they shall be protected from abrasion by bushings of insulating material or equivalent devices.
(2) Where conductors are no. 8 AWG or larger, copper or aluminum, such protection shall consist of:
   (a) Insulated type bushings, unless the equipment is equipped with a hub having a smoothly rounded throat; or
   (b) Insulating material fastened securely in place which will separate the conductors from armoured cable fittings and afford adequate resistance to mechanical injury.

(3) Where armoured cable is fastened to equipment, the conductor or clamp shall be of such design as to leave the insulating bushing or its equivalent visible for inspection.
(4) Where conductors connected to open wiring issue from the ends of armouring, they shall be protected with boxes or with fittings having a separately bushed hole for each conductor.

Please refer to the following for further details and complete information:
1. UL 4, ANSI C33.9 – Safety standards for armoured cable
2. UL 514 A and 514B – Safety standards for outlet boxes and fittings
3. W-F-406 – Federal specification: Fittings for cable, power, electrical and conduit, metal, flexible
4. NEMA FB-1 – Standards publication: Fittings, cast metal boxes and conduit bodies for conduit, electrical metallic tubing and cable
5. CEC Section 12-600 – Wiring methods (armoured cable)
6. CSA C22.2 No. 51 – Safety standards for armoured cables
7. CSA C22.2 No. 18.1 and 18.3 – Safety standards for outlet boxes, conduit boxes and fittings

Please note
The excerpts and other material herein, whether relating to the Canadian Electrical Code 2012 Part I, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, is not intended to provide all relevant information required for use and installation. Reference to original or primary source material and data is mandatory before any application or use is made of the product.
Armoured cable and flexible metal conduit fittings
Specifications – Flexible metal conduit

Flexible metal conduit Ref. CEC Rule 12-1000
Flexible metal conduit can be used for exposed or concealed work in dry locations. It can be used for wet locations, provided conductors within are lead covered or other approved type.

Flexible metal conduit cannot be used underground or embedded in poured concrete or aggregate. With rubber covered conductors, the conduit cannot be exposed to oil, gasoline or other materials having a deteriorating effect on rubber.

With minor exceptions, use of flexible metal conduit is not permitted in hoists, in storage battery rooms or in any hazardous locations. Use of flexible metal conduit is restricted to systems under 600 volts.

Flexible metal conduit longer than six feet is permitted to be used as a grounding means provided the conduit and the fitting are approved for the purpose. To date there is no flexible metal conduit approved for the purpose by the Underwriters Laboratories or CSA.

In Class II Zone 2 and Division 2 hazardous areas, the conduit itself cannot be used as the grounding means. Class I Zone 2 flexible connections at motor terminals and similar places, ref.: CEC Rule 18-152 (6) and bonding CEC Rule 18-074 (1)(a). Class I Division 2, flexible connections at motor terminals and similar places, ref: CEC Rule J18-152 (3) and bonding CEC Rule J18-072 (1)(a). Flexible metal conduit is available with steel or aluminum armour in trade size \( \frac{5}{16} \text{ in.} \) to 4 in. With few exceptions where \( \frac{5}{16} \text{ in.} \) and \( \frac{3}{8} \text{ in.} \) trade sizes are used, code prohibits use of conduit less than \( \frac{1}{4} \text{ in.} \) trade size. Bends in concealed work are restricted to four 90° bends (CEC Rule 12-940). No angle fittings are permitted in concealed raceway installations.

Please refer to the following for further details and complete information:
1. UL 1, ANSI C33.92 – Safety standards for flexible metal conduit
2. UL 514 – Safety standards for outlet boxes and fittings
3. W-F-406 – Federal specification: Fittings for cable, power, electrical and conduit, metal flexible
4. WW-C-566 – Federal specification: Conduit, metal, flexible
5. NEMA FB1 – Standards publication: Fittings and supports for conduit and cable assemblies
6. CEC 12-1000 – Wiring method (rigid and flexible conduit)
7. CSA C22.2 No. 56 – Safety standards for flexible metallic conduit and liquidtight flexible metal conduit
8. CSA C22.2 No. 18 – Safety standards for outlet boxes, conduit boxes and fittings
9. CEC Rule 12-1000 Rule 18-152 (6) and bonding Rule 18-074 (1)(a) Class I, Zone 2 – Flexible connections at motor terminals and similar places. Rule J18-152 (6) and bonding Rule J18-072 (1)(a) Class I, Division 2 flexible connections at motor terminals and similar places. Rule 12-940 – Not more than the equivalent of four 90° bends
Armoured cable and flexible metal conduit fittings

Suggested specifications

- Armoured cable and flexible metal conduit shall conform to provisions of following applicable standards:
  Armoured Cable – UL 4/ANSI C33.9/CSA C22.2 No. 51; flexible metal conduit – UL 1/ANSI C33.92/WW-C-566/CSA C22.2 No. 56
- Type of cable used and conductors within flexible metal conduit shall be suitable for conditions of use and location
- Where armoured cable or flexible metal conduit terminates into a threadless or threaded opening, it shall be assembled with approved fittings; fittings shall be of malleable iron/steel construction, electro-zinc plated inside and outside, equipped with nylon-insulated throat and shall be of angled saddle type as manufactured by ABB, series 3110; direct bearing screw type fittings shall not be used
- Suitable bushing as manufactured by ABB, series 422 or 390, shall be provided between the conductors and armour
- Where approved armoured cable or flexible metal conduit is used as an equipment grounding conductor, terminating fitting used shall be of the grounding type as manufactured by ABB, series 3110

---

01 Series 3110
armoured cable fitting and flexible metal conduit

02 Series 422
Insuliner sleeve

03 Series 390
Anti-short bushing

---

01

02

03
Armoured cable and flexible metal conduit fittings

Specifications

Application
- To connect and effectively bond armoured cable or flexible metal conduit to a box or an enclosure

Features
- Provided with a saddle designed to:
  1. Firmly secure conduit in place without damaging cable armour (mechanical holding power of angled wedge assembly increases with increased strain)
  2. Provide high quality bond between conduit or cable and be unaffected by vibrations
  3. Centralize conduit or cable with respect to throat opening for conductors
- Insulated throat protects conductors during and after installation, reduces wire pull effort and prevents thread damage in handling
- Locknuts designed to provide effective bond between fitting and box or enclosure, will not vibrate loose
- Designed with fewer screws – reduces installation time and cost
- Rugged all steel or malleable iron construction.

Standard material/finish
- Body: Steel or malleable iron/electro zinc plated and chromate coated
- Saddle: Steel/electro zinc plated and chromate coated
- Screws: Steel/electro zinc plated and chromate coated
- Insulator: Thermoplastic/as molded

Conformity
- UL 514B
- CSA C22.2 No. 18.3
- NEMA FB-1

<table>
<thead>
<tr>
<th>Series</th>
<th>Hub size NPS (in.)</th>
<th>Conduit size (in.)</th>
<th>Cable opening (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3110 Series straight fittings</td>
<td>¼–5</td>
<td>¼–5</td>
<td>0.437–5.500</td>
</tr>
<tr>
<td>3130 Series 90° fittings</td>
<td>¼–4</td>
<td>¼–4</td>
<td>0.437–4.560</td>
</tr>
</tbody>
</table>

(All hubs provided with straight pipe threads NPS)
Armoured cable and flexible metal conduit fittings
Tite-Bite® fittings

Material: Steel through 3⁄8 in. trade size
** Not UL Listed or CSA Certified
† UL Listed for flexible metal conduit only
‡ CSA not applicable
* UL Listed for armoured cable only
† UL Listed for flexible metal conduit only

Steel or malleable iron
The tough lining of insulation and the Tite-Bite principles make these fittings a “must” when conductors are subject to conditions of vibration or strain.

Steel or malleable iron
Easy to install with double-grip saddle. These fittings are completely salvageable. The ¾ in. and 1¼ in. sizes are made of formed steel, which produces a uniform high quality and a smooth throat that protects conductor insulation. ¾ in. and larger size are malleable iron.

Tite-Bite fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable opening (in.)</th>
<th>Trade size (in.)</th>
<th>KO size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>max.</td>
<td>min.</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>3110-C*</td>
<td>0.656</td>
<td>0.437</td>
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<tr>
<td>3112</td>
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<td>0.750</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>3115*</td>
<td>1.125</td>
<td>0.906</td>
<td>¾</td>
<td>⅓</td>
</tr>
<tr>
<td>3117*</td>
<td>1.468</td>
<td>1.250</td>
<td>1</td>
<td>1</td>
</tr>
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<td>3118†</td>
<td>1.750</td>
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<td>1¼</td>
</tr>
<tr>
<td>3119†</td>
<td>2.031</td>
<td>1.812</td>
<td>1⅛</td>
<td>1¼</td>
</tr>
<tr>
<td>3120†</td>
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<td>3.062</td>
<td>2.812</td>
<td>2⅛</td>
<td>2⅛</td>
</tr>
<tr>
<td>3122†</td>
<td>3.562</td>
<td>3.312</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3123‡</td>
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<td>3124**†</td>
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<tr>
<td>3125**</td>
<td>5.500</td>
<td>4.600</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

Material: Steel through ¾ in. trade size
* UL Listed for armoured cable only
† UL Listed for flexible metal conduit only
‡ CSA not applicable

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable opening (in.)</th>
<th>Trade size (in.)</th>
<th>KO size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>max.</td>
<td>min.</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>300-TBC*</td>
<td>0.656</td>
<td>0.437</td>
<td>¾</td>
<td>½</td>
</tr>
<tr>
<td>302-C</td>
<td>0.937</td>
<td>0.750</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>304</td>
<td>1.093</td>
<td>0.906</td>
<td>¾</td>
<td>⅓</td>
</tr>
<tr>
<td>306</td>
<td>1.458</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>308†</td>
<td>1.750</td>
<td>1.562</td>
<td>1¼</td>
<td>1¼</td>
</tr>
<tr>
<td>310†</td>
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<tr>
<td>312†</td>
<td>2.500</td>
<td>2.312</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>314†</td>
<td>3.062</td>
<td>2.812</td>
<td>2⅛</td>
<td>2⅛</td>
</tr>
<tr>
<td>316†</td>
<td>3.562</td>
<td>3.312</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>
Armoured cable and flexible metal conduit fittings

Tite-Bite fittings

Steel or malleable iron.
Available with or without insulated throat, this Tite-Bite fitting line is by far the easiest and best to install when making sharp bends at the enclosure or equipment. It has all of the advantages of the straight fitting with only one screw to tighten, except in the larger sizes where there are two. A peep hole on top provides for easy inspection of the ABC bushing. Narrow design makes it easy to install fittings in adjacent knockouts.

Tite-Bite fittings – 90° angle nylon insulated

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable opening (in.) max.</th>
<th>min.</th>
<th>Trade size (in.)</th>
<th>KO size (in.)</th>
<th>Dimensions (in.) A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
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<td>3130-C</td>
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<td>0.437</td>
<td>3/8</td>
<td>1/2</td>
<td>11/32</td>
<td>11/32</td>
<td>3/8</td>
</tr>
<tr>
<td>3132</td>
<td>0.937</td>
<td>0.750</td>
<td>1/2</td>
<td>1/2</td>
<td>21/32</td>
<td>11/32</td>
<td>3/8</td>
</tr>
<tr>
<td>3135</td>
<td>1.093</td>
<td>0.906</td>
<td>3/4</td>
<td>3/4</td>
<td>21/2</td>
<td>21/2</td>
<td>5/16</td>
</tr>
<tr>
<td>3137</td>
<td>1.468</td>
<td>1.250</td>
<td>1</td>
<td>1</td>
<td>29/32</td>
<td>29/32</td>
<td>11/32</td>
</tr>
<tr>
<td>3138†</td>
<td>1.750</td>
<td>1.562</td>
<td>1 1/8</td>
<td>1 1/8</td>
<td>31/16</td>
<td>31/16</td>
<td>5/32</td>
</tr>
<tr>
<td>3139†</td>
<td>2.031</td>
<td>1.812</td>
<td>2</td>
<td>2</td>
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<td>51/16</td>
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<td>3140†</td>
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<td>1 1/4</td>
</tr>
<tr>
<td>3141†</td>
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<td>2.812</td>
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<td>3.312</td>
<td>4</td>
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<td>61/2</td>
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<tr>
<td>3144-TB‡</td>
<td>4.560</td>
<td>4.120</td>
<td>4</td>
<td>4</td>
<td>61/4</td>
<td>61/4</td>
<td>1 1/4</td>
</tr>
</tbody>
</table>

† UL Listed for flexible metal conduit only
‡ Not UL Listed or CSA Certified

The angle clip gives secure mechanical grip that tightens under tension or vibration. Throat is long enough to install in cast housing knockouts. The 3/8 in. and 1/2 in. sizes are of steel construction. The 1/2 in. and larger sizes are malleable iron.

Tite-Bite fittings – 90° angle

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable opening (in.) max.</th>
<th>min.</th>
<th>Trade size (in.)</th>
<th>KO size (in.)</th>
<th>Dimensions (in.) A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>321-C</td>
<td>0.656</td>
<td>0.437</td>
<td>1/4</td>
<td>1/2</td>
<td>11/16</td>
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<td>323</td>
<td>0.937</td>
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<td>1/2</td>
<td>1/2</td>
<td>21/2</td>
<td>1 1/4</td>
<td>3/8</td>
</tr>
<tr>
<td>325</td>
<td>1.093</td>
<td>0.906</td>
<td>3/4</td>
<td>3/4</td>
<td>21/2</td>
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<td>5/16</td>
</tr>
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<td>1</td>
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<td>29/16</td>
<td>4 1/8</td>
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<td>1.562</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>31/16</td>
<td>31/16</td>
<td>5/32</td>
</tr>
<tr>
<td>328†</td>
<td>2.031</td>
<td>1.812</td>
<td>1 3/4</td>
<td>1 3/4</td>
<td>41/8</td>
<td>41/8</td>
<td>11/32</td>
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<td>2.312</td>
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<td>2</td>
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<td>41/4</td>
<td>11/32</td>
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<td>330-TB‡</td>
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<td>3.312</td>
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<td>3</td>
<td>51/16</td>
<td>51/16</td>
<td>11/32</td>
</tr>
</tbody>
</table>

† UL Listed for flexible metal conduit only
Armoured cable and flexible metal conduit fittings

Squeeze fittings

Squeeze fittings will fit every size of armoured cable, leaded cable and flexible conduit. Maleable iron or steel construction. Part no. 253-TB is steel.

Squeeze fittings

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable opening (in.) max.</th>
<th>min.</th>
<th>Trade size (in.)</th>
<th>KO size (in.)</th>
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<th>B</th>
<th>C</th>
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<tr>
<td>252</td>
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<td>⅛</td>
<td>⅛</td>
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<td>253-TB†</td>
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<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>254-C†</td>
<td>0.938</td>
<td>0.812</td>
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<td>⅛</td>
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<tr>
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<td>3.062</td>
<td>2.812</td>
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<td>⅛</td>
</tr>
</tbody>
</table>

† UL Listed for armoured cable only. Fitting material steel

⅛ in. and ½ in. sizes made in steel. Cap lifts off by simply loosening screws part way. Only two screws to tighten. ¾ in. size and larger made of maleable iron.

Squeeze fittings – 90° angle

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable opening (in.) max.</th>
<th>min.</th>
<th>Trade size (in.)</th>
<th>KO size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>266-C</td>
<td>0.656</td>
<td>0.406</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>272†</td>
<td>0.812</td>
<td>0.688</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>268-C</td>
<td>0.937</td>
<td>0.813</td>
<td>¼</td>
<td>¼</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>279</td>
<td>1.000</td>
<td>0.875</td>
<td>¼</td>
<td>¼</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>270</td>
<td>1.125</td>
<td>1.000</td>
<td>¼</td>
<td>¼</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>273-TB‡</td>
<td>1.406</td>
<td>1.187</td>
<td>1</td>
<td>1</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>274‡</td>
<td>1.656</td>
<td>1.375</td>
<td>1¼</td>
<td>1¼</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>275‡</td>
<td>1.875</td>
<td>1.625</td>
<td>1½</td>
<td>1½</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>276‡</td>
<td>2.500</td>
<td>2.125</td>
<td>2</td>
<td>2</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
</tbody>
</table>

† UL Listed for armoured cable only
‡ UL Listed for flexible metal conduit only

⅛ in. and ½ in. sizes made in steel. Cap lifts off by simply loosening screws part way.

Squeeze fittings – 45° angle

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable opening (in.) max.</th>
<th>min.</th>
<th>Trade size (in.)</th>
<th>KO size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>265</td>
<td>0.656</td>
<td>0.406</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>267</td>
<td>0.937</td>
<td>0.813</td>
<td>¼</td>
<td>¼</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
<tr>
<td>269</td>
<td>1.125</td>
<td>1.000</td>
<td>¼</td>
<td>¼</td>
<td>⅛</td>
<td>⅛</td>
<td>⅛</td>
</tr>
</tbody>
</table>

⅛ in. and ½ in. sizes made in steel. Cap lifts off by simply loosening screws part way.
**Armoured cable and flexible metal conduit fittings**

**Two-screw and clamp fittings**

Formed steel body with carefully round bushing. The armour gripping saddle stays open by itself when cable is being inserted.

**Two-screw fittings**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Cable opening (in.)</th>
<th>Trade size (in.)</th>
<th>KO size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3301-C*</td>
<td>0.656</td>
<td>0.250</td>
<td>3/32</td>
<td>1/16</td>
</tr>
<tr>
<td>3312-C</td>
<td>0.937</td>
<td>0.500</td>
<td>1/2</td>
<td>1/2</td>
</tr>
</tbody>
</table>

* UL Listed for armoured cable only.

**Malleable iron.**

For nonmetallic and armoured cable.

**Duplex clamp fitting**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>KO size (in.)</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>291-C</td>
<td>1/2</td>
<td>11/16</td>
</tr>
</tbody>
</table>

UL Listed as grounding means under NEC 350-5.
Armoured cable and flexible metal conduit fittings
EMT to flex adaptors

Tite-Bite fitting design holds flexible metal cable firmly in place with a single screw rather than two screws.

---

Adaptor – EMT to flex

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>KO size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>503-TB</td>
<td>1⁄2 - 1⁄2</td>
<td>13⁄16</td>
<td>13⁄16</td>
<td>13⁄16</td>
</tr>
<tr>
<td>504</td>
<td>3⁄4 - 3⁄4</td>
<td>13⁄16</td>
<td>13⁄16</td>
<td>13⁄16</td>
</tr>
<tr>
<td>505-TB</td>
<td>1 - 1</td>
<td>23⁄16</td>
<td>23⁄16</td>
<td>23⁄16</td>
</tr>
</tbody>
</table>
Armoured cable and flexible metal conduit fittings

Anti-short bushings and straps

Anti-short bushings are made of smooth plastic, and designed to protect conductor insulation from rough edges of armoured cable and flexible metal conduit.

---

### Anti-short bushing

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>390</td>
<td>14-2, 14-3 and 12-2</td>
</tr>
<tr>
<td>391</td>
<td>14-4, 12-3, 6-1 and 4-1</td>
</tr>
<tr>
<td>392</td>
<td>12-4, 10-2, 10-3 and 2-1</td>
</tr>
<tr>
<td>393</td>
<td>10-4, 8-2, 8-3 and 1-1</td>
</tr>
<tr>
<td>394</td>
<td>8-4, 6-2, 6-3, 4-2, 4-3 and 6-4</td>
</tr>
</tbody>
</table>

Colourized
Temperature rating: 240 °F
UL not applicable

---

### Strap

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Bolt hole dia. (in.)</th>
<th>Size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>65C</td>
<td>0.265</td>
<td>½ Flex</td>
</tr>
</tbody>
</table>
Nonmetallic sheathed cable fittings
Specifications – Nonmetallic (NM) sheathed cable

Ref. CEC Rule 12-500
Canadian Electrical Code 2012 Part I, defines nonmetallic sheathed cable as, "A factory assembly of two or more insulated conductors having an outer sheath of moisture-resistant, flame-retardant, nonmetallic material."

Nonmetallic sheathed cable is constructed of insulated conductors (14 to 2 AWG copper), and an outer nonmetallic sheath classified as Types NMD90, NMW and NMWU.

Nonmetallic sheathed cable is provided with bare bonding conductor. Nonmetallic sheathed cable is rated for 90 °C service with voltage limitation of 300 volts.

Type NMW and NMWU have a flame-retardant, moisture-resistant sheath.

Type NMD90, NMW and NMWU applications are described in Table 19 of CEC 2012 Part I.

Nonmetallic sheathed cable is permitted by code to be used exposed or concealed in one, two or multifamily dwellings or other structures not exceeding three floors. Use of Type NMD90 cable is restricted to dry locations.

Nonmetallic sheathed cables are not permitted to be used as a service conductor. Nonmetallic sheathed cables are also prohibited in hazardous locations.

NM cables need to be secured in place by suitable means so as not to injure the cable. Adequate protection for cable is also required when run is exposed, through joists or rafters, through floors, in unfinished basements and accessible attics.

NM cables shall be protected from physical damage when it passes through factory- or field-punched, cut or drilled holes in metal members. A bushing or grommet firmly secured in place is recommended (CEC Rule 12-516).

Please refer to the following for further details and complete information:
1. UL 719, ANSI C33.56 – Safety standards for nonmetallic sheathed cable
2. UL 514A and 514B – Safety standards for outlet boxes and fittings
3. NEMA FB-1 – Standards publication: Fittings, cast metal boxes and conduit bodies for conduit, electrical metallic tubing and cable
4. CEC Section 12-500 –Wiring methods (nonmetallic sheathed cable)
5. CSA C22.2 No. 48 – Safety standards for nonmetallic sheathed cable
6. CSA C22.2 No. 18.1 and 18.3 – Safety standards for outlet boxes, conduit boxes and fittings

Please note
The excerpts and other material herein, whether relating to the Canadian Electrical Code 2012 Part I, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation. Reference to original or primary source material and data is mandatory before any application or use is made of the product.
Nonmetallic sheathed cable fittings
Suggested specifications

• Where nonmetallic sheathed cable or flexible cord terminates into a threaded or threadless opening, terminating fittings used shall be approved for the purpose by nationally recognized laboratory, inspection agency or product evaluation organization.
• Terminating fittings shall be of malleable iron, steel or thermoplastic construction designed to provide adequate strain relief and positively prevent damage to jacket or conductor insulation such as series 3300 or 3302M manufactured by ABB. Ferrous metal fittings shall be electro-zinc plated inside and outside including threads and bushed with a nylon-insulated throat.
Thermoplastic material used for fitting construction shall be of high impact strength suitable for 105 °C/221 °F service with a UL flammability rating of 94V-1.
• Where nonmetallic sheathed cable passes through either factory or field-punched, cut or drilled holes in metallic members, the cable shall be protected by thermoplastic bushing such as series 3210 manufactured by ABB. Bushing shall be firmly secured in opening. Nylon-bushed metallic fittings such as series 1942 may be substituted as required.

— 01 Series 3300 nonmetallic sheathed cable and flexible cord fittings (all plastic)
— 02 Series 3302M nonmetallic sheathed cable and flexible cord fittings (steel)
— 03 Series 3210 knockout bushings
— 04 Series 1942 insulated nipples
Nonmetallic sheathed cable fittings
Nonmetallic sheathed cable and flexible cord fittings (steel)

Application
- To connect nonmetallic sheathed cable and flexible cord to a box or an enclosure

Features
- Rugged all steel/malleable iron construction (A)
- Rounded cable clamp grip provides superior mechanical holding power without damaging conductor insulation or outer jacket (B)
- Clamp designed to cover body opening for a neat and safe installation
- Screws thread into clamp and not body; screw heads are snug with body and ends of screws do not project beyond the body (C)
- Insulator firmly secured in place protects conductors and reduces wire pulling effort; protects threads from damage during handling (D)
- Locknut designed to secure fitting to a box or enclosure; will not vibrate loose

Standard material
- Body: ½ in. through 1 in. steel; 1¼ in. through 2 in. malleable iron
- Clamp: ½ in. through 1¼ in. steel; 1¼ in. through 2 in. malleable iron
- Locknut: All steel
- Insulator: Thermoplastic

Standard finish
- All steel and malleable iron parts: Electro zinc plated and chromate coated

Range
- Hub size: ½ in. through 2 in. Hubs provided with straight pipe threads (NPS)
- Cable: 2 #14 through 4 #4 Type NM
- Cable outside: 0.250 in. to 1.150 in diameter

Conformity
- UL 514B
- CSA C22.2 No. 18.3
- NFPA 70-2008 (ANSI)
- NEMA FB-1
- Federal Standard H-28 (threads)
Nonmetallic sheathed cable fittings

Two-screw fittings

Steel or malleable iron.
Rounded cable grip and smooth bushing protect the cable sheath and wire insulation. Since saddle threaded, screws do not travel or extend beyond the fitting body as it is clamped to the cable. An extra lip on the saddle closes the unused part of the fitting opening.

---

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>KO size (in.)</th>
<th>UL Listed &amp; CSA certified for the following single (1) and pairs of (2) NM and NMC cable</th>
<th>UL Listed &amp; CSA certified for the following service entrance cables</th>
<th>Dimensions (in.)</th>
<th>Cable opening (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3302-C&lt;sup&gt;*&lt;/sup&gt;</td>
<td>3/4</td>
<td>(1) #14, #12, #10, #8, #6, #4, #2, GND, #2/0 GND, #1/0 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3302-C&lt;sup&gt;*&lt;/sup&gt;</td>
<td>3/4</td>
<td>(2) #14, #12, #10, #8, #6, #4, #2, GND, #2/0 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3303-C</td>
<td>3/4</td>
<td>(1) #8, #6, #4, #2, GND, #1/0 GND, #1/2 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3303-C</td>
<td>3/4</td>
<td>(2) #12, #10, #8, #6, #4, #2, GND, #1/0 GND, #1/2 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3303-C</td>
<td>3/4</td>
<td>(1) #8, #6, #4, #2, GND, #1/0 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3304</td>
<td>1</td>
<td>(2) #12, #10, #8, #6, #4, #2, GND, #1/0 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3304</td>
<td>1</td>
<td>(1) #8, #6, #4, #2, GND, #1/0 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3305</td>
<td>11/16</td>
<td>(2) #12, #10, #8, #6, #4, #2, GND, #1/0 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3306</td>
<td>11/16</td>
<td>(1) #8, #6, #4, #2, GND, #1/0 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
<tr>
<td>3307</td>
<td>11/16</td>
<td>(1) #8, #6, #4, #2, GND, #1/0 GND</td>
<td>2#6 thru #8 GND</td>
<td>0.440</td>
<td>0.250</td>
</tr>
</tbody>
</table>

<sup>*</sup> UL Listed for use with rubber and thermoplastic flexible cords (both single and multiple cords and 2 oval cables)
<sup>†</sup> Not UL Listed or CSA Certified
UL Listed for multiple cords and cables
Nonmetallic sheathed cable fittings
Nonmetallic sheathed cable and flexible cord fittings (all plastic)

**Application**
- To connect nonmetallic sheathed cable and flexible cord to a box or an enclosure

**Features**
- Provides strain relief by partially deflecting cable (A); therefore:
  - (1) Fitting will not damage outer covering or jacket of cable, or conductor insulation; designed to give safe trouble-free installation
  - (2) Holding power and cable strain relief are not effected by surface finish of outer covering or cable jacket
  - (3) Fitting provides superior holding power far in excess of listing agency requirements
- Snap-in one-piece design; accommodates variation in knockout dimensions, saves installation time (B)
- All high impact thermoplastic construction provides:
  - (1) Insulated throat; conductors are protected from abrasion
  - (2) Improved dielectric strength, and elimination of potential shorts
  - (3) Corrosion resistance
- Wide range—reduces inventories
- Fitting may be pre-installed in box KO or on cable

**Standard material**
- All high impact thermoplastic – UL 94V-1, suitable for 105 °C application.

**Standard finish**
- As molded

**Listing/certification**
- Cat. no. 3201, 3350 for factory installation

**Conformity**
- UL 514B
- CSA C22.2 No.18.3
- NFPA 70-2008 (ANSI)

---

Box or enclosure wall

Cable or cord

(A)

(B)

(C)
Nonmetallic sheathed cable fittings
Nonmetallic sheathed cable and flexible cord fittings (all plastic)

Typical Installation

1. Remove sheath from end of cable (4 in. or more as required). Insert cable through fitting as shown (cable under button).
2. Insert button into cavity.
3. With grooved pliers, or parallel jaw type pliers (commercially available), squeeze button into cord or wires as far into fitting body as possible.
   Note: It may be necessary to re-adjust pliers to ensure button is properly installed.
4. Snap fitting into knockout box. If desired this step can be done prior to Step 1.
5. To remove from knockout box, depress ears.
6. To remove from cable, cut fitting as shown.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Knockout size (in.)</th>
<th>Cable/ cord range</th>
</tr>
</thead>
<tbody>
<tr>
<td>3300</td>
<td>1⁄4</td>
<td>10-2, 12-2 and 14-2 type NM cable; 0.125 in. to 0.300 in. outside diameter cord</td>
</tr>
<tr>
<td>3201-TB &amp; 3350</td>
<td>1⁄4</td>
<td>10-3, 12-3, 14-3, 10-2, 12-2, 14-2 type NM cable; also multiple (2) 12-2 and 14-2 type NM cable; 0.300 in. to 0.600 in. outside diameter cord; 8-3 and 6-3 type</td>
</tr>
<tr>
<td>3202</td>
<td>3⁄4</td>
<td>NM cables; also multiple (2) 14-3 and 10-2 type NM cable; 0.500 in. to 0.850 in. outside diameter cord</td>
</tr>
</tbody>
</table>
Nonmetallic sheathed cable fittings
All plastic fittings for NM cable and flexible cord

High impact thermoplastic, UL 94V-1.

Features push-in design. Captive locking wedge secures cable with single squeeze of standard electrician’s pliers. Provides excellent insulation, strain relief and high pull-out value.

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Size range</th>
<th>KO size (in.)</th>
<th>Fig.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>max. thk. enclosure (in.)</th>
<th>H (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3300</td>
<td>For use with 10-2, 12-2 and 14-2 NM cables; 18-2 and 18-3 SJ and SJO cords, single or multiple; cord capacity 0.125 in. to 0.300 in. diameter</td>
<td>1/2</td>
<td>2</td>
<td>1 1/4</td>
<td>1 7/8</td>
<td>1/8</td>
<td>0.880</td>
<td>0.795</td>
<td>0.080</td>
<td>1/16 x 1/16</td>
</tr>
<tr>
<td>3350</td>
<td>For use with 10-3, 12-3, 14-3, 10-2, 12-2, 4-2 NM cables; multiple (2) 12-2 and 14-2 NM cables in wire range 0.300 in. to 0.600 in.</td>
<td>1/2</td>
<td>1</td>
<td>1 7/8</td>
<td>1</td>
<td>1/8</td>
<td>0.880</td>
<td>0.795</td>
<td>0.080</td>
<td>1/8 dia.</td>
</tr>
<tr>
<td>3202</td>
<td>For use with 8-3 and 6-3 NM cables; (2) 14-3, 14-2, 12-2 and 10-2 NM cables; single and multiple flexible cords in wire range 0.500 in. to 0.850 in.</td>
<td>3/4</td>
<td>1</td>
<td>1 1/4</td>
<td>1 7/8</td>
<td>1/8</td>
<td>1.100</td>
<td>1.005</td>
<td>0.090</td>
<td>5/8 dia.</td>
</tr>
</tbody>
</table>

Temperature rating: 105 °C

---

01 Figure 1
02 Figure 2
03 Snap captive locking wedge into fitting’s cavity
04 Press locking wedge into cavity, which locks onto cable
05 Cat. no. 3201 is ideal for multiple flexible cords and cable

Note: If rotation in hole is to be avoided, use connector in a hole dimensions per column D and E.

---

Diagrams

---

01 02

---

03 04 05
Nonmetallic sheathed cable fittings
Snap-in fittings and clamps

No locknut required. No special tools required. High impact thermoplastic with steel insert.

Snap-in fittings for flexible metal conduit

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
<th>KO size (in.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>100TB</td>
<td>3⁄8</td>
<td>1⁄2</td>
<td>1⁄4</td>
<td>13⁄32</td>
<td>13⁄32</td>
<td>13⁄32</td>
</tr>
<tr>
<td>100BP</td>
<td>3⁄8</td>
<td>1⁄2</td>
<td>1⁄4</td>
<td>13⁄32</td>
<td>13⁄32</td>
<td>13⁄32</td>
</tr>
</tbody>
</table>

Temperature rating: 105 °C. UL 94V-1

Swivel tray clamps

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6209</td>
<td>1⁄4–1⁄2</td>
</tr>
<tr>
<td>6211</td>
<td>1–11⁄4</td>
</tr>
<tr>
<td>6214</td>
<td>11⁄4–2</td>
</tr>
<tr>
<td>6216</td>
<td>21⁄2–3</td>
</tr>
<tr>
<td>6218</td>
<td>31⁄2–4</td>
</tr>
</tbody>
</table>

Swivel cable tray clamps for aluminum and steel trays with regular or reinforced flanges.
- Serrations and biting teeth on clamping saddle provides a high quality bond between conduit and clamp
- 1⁄8 in. to 6 in. sizes that can be clamped to any position in a 90° arc
- Hardened steel screws bite into tray and provide positive bond
- Malleable iron hub and steel U-bolt accept conduit from any angle

Cable tray clamps

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Conduit size (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6210</td>
<td>1⁄2–1</td>
</tr>
<tr>
<td>6212</td>
<td>1–11⁄4</td>
</tr>
</tbody>
</table>