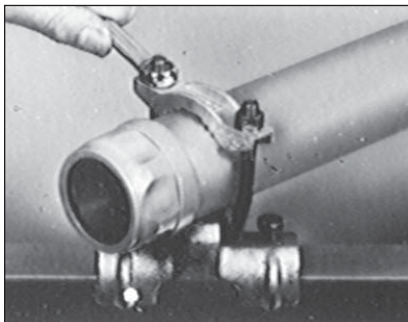
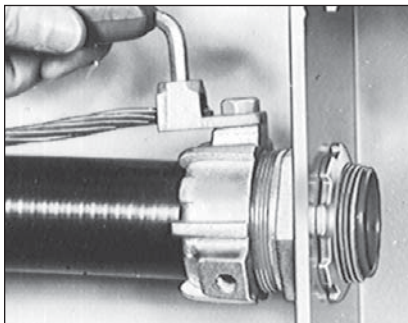
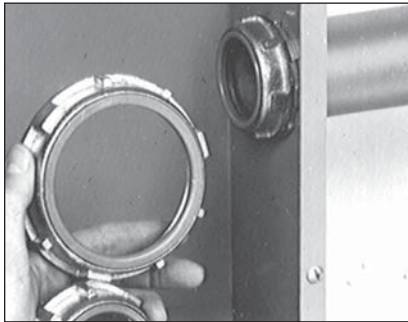
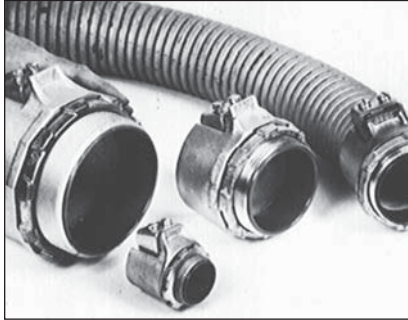


T&B Conduit Fittings

General Information



Thomas & Betts... The Complete Product Line

Since the turn of the century, Thomas & Betts has been a recognized leader in electrical fittings. Industry standards such as Chase® Nipples and Erickson® Couplings were introduced by Thomas & Betts 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. Thomas & Betts Fittings provide 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, Thomas & Betts, engineers have designed fittings which meet the requirements of the Canadian Electrical Code, as well as the Canadian Standards Association. You can use Thomas & Betts 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 Thomas & Betts 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 Thomas & Betts Raceway Fittings.

Lower Installed Cost

Lower installed cost is a function of purchase cost, availability, installation advantage, and performance; it comes in every carton of Thomas & Betts Raceway Fittings.

T&B Conduit 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 1/4 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 quarter i.e. 360 degrees total.

Listed below are some of the advantages of rigid aluminum conduit over rigid steel conduit.

1. Non-sparking—eliminates hazard in explosive atmospheres
2. Non-magnetic—reduces power loss due to voltage drop
3. Resists most corrosive atmospheres and industrial environments
4. Lightweight—reduces cost of handling and installation
5. Attractive appearance

T&B Conduit Fittings

Rigid Metal Conduit Fittings

Specifications—Rigid Metal Conduit/PVC Coated Rigid Metal Conduit (continued)

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
6. WW-C-540...Federal Specification, Conduit, Metal, Rigid (Electrical, Aluminum)
7. WW-C-571...Federal Specification, Conduit, Metal, Rigid, and Coupling, Elbow, and Nipple, Electrical Conduit Enameled
8. U.L. 6...Standards for Safety. Rigid Metal Conduit
9. U.L. 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
14. A-A-50553 Federal Specification. Fittings for Conduit Metal Rigid (Thickwall & Thinwall [EMT] Type)

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, 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.

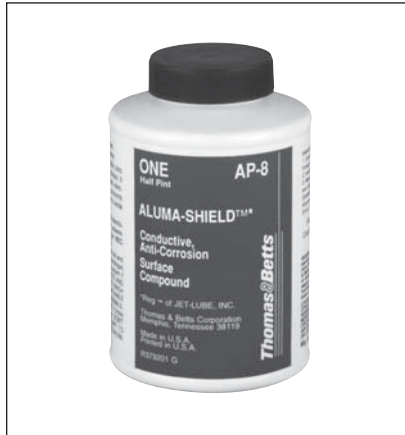
T&B Conduit Fittings

Rigid Metal Conduit Fittings

Suggested Specifications for Rigid Metal Conduit/PVC Coated Rigid Metal Conduit and Fittings meets 2009 CEC Rule 2-112



**Cat. #CP8
KOPR-SHIELD***
* TM of Jet-Lube, Inc.



**Cat. #AP8
ALUMA-SHIELD®**



**Series 1451
Knockout Plug**



**Series 1470
Plug, Conduit/Fitting**

- 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/U.L. 6/CSA C22.2 No. 45
 - PVC Coated Ferrous Metal Conduit Applicable listed under (j) 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/U.L. 6/CSA C22.2 No. 45.
- All field cuts shall be square, reamed and deburred. Conduit threads shall be tapered for entire length with $\frac{3}{4}$ " 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 Thomas & Betts.
- 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 Thomas & Betts, 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 U.L. flammability rating of 94V-1.

T&B Conduit Fittings

Rigid Metal Conduit Fittings

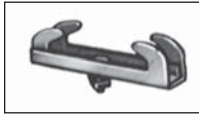
Suggested Specifications for Rigid Metal Conduit/PVC Coated Rigid Metal Conduit and Fittings (continued)



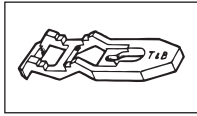
**Series 1276
Conduit Strap**



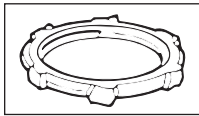
**Series 690
Conduit Supports**



**Series 700
Adjustable Beam
Clamp**



**Series 1350
Conduit Spacer**



**Series 140
Locknut**



**Series 106
Bonding Locknut**



**Series 5302
Sealing Gasket**



**Series 370
Threaded Hub
(Raintight)**



**Series 485 PVC
Coated Threaded
Hubs (Raintight)**



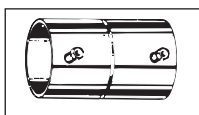
**Series 8123
Threadless Fitting
(Concretetight)**



**Series 8120
Threadless Coupling
(Concretetight)**



**Series 8125
Set Screw Fitting
(Concretetight)**



**Series 8124
Set Screw Fitting
(Concretetight)**

- 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 Thomas & Betts, 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 1/4" 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 Thomas & Betts 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 Thomas & Betts 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 Thomas & Betts 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 Thomas & Betts 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 Thomas & Betts, series 370 or series H050-TB. Female taper hub threads shall be adequately relieved to prevent bottoming of conduit.

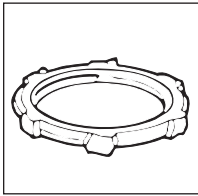
Hubs constructed of copper-free aluminum may be substituted when used with rigid nonferrous (aluminum) metal conduit, Thomas & Betts series 370AL or H050A.

For environmental conditions that are more than normally corrosive to exposed surfaces, hubs suitably protected with PVC coating such as Thomas & Betts series 485 shall be used.

T&B Conduit Fittings

Rigid Metal Conduit Fittings

Suggested Specifications for Rigid Metal Conduit/PVC Coated Rigid Metal Conduit and Fittings (continued)



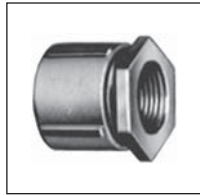
**Series 140
Locknut**



**Series 1942
Insulated Nipple**



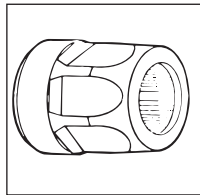
**Series 3210
Knockout Bushing**



**Series 674
Threaded Coupling**



**Series 222TB
Insulating Bushing**



**Series TRIB50
Threadless Rigid
Insulating Bushing**



**Series 3870
Insulated Grounding &
Bonding Bussing**

- 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 Thomas & Betts, series 8123 and 8120. Insulated set screw type fittings such as Thomas & Betts 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:
1/2" through 1-1/2" size...10,000 amps RMS (duration of fault current 3 cycles)
2" and above...20,000 amps RMS (duration of fault current 3 cycles)

- All back-to-back nipling of boxes shall be done using locknuts and nylon bushed nipples as manufactured by Thomas & Betts, series 140 locknuts and series 1942 nipples. Nipples, or suitably designed bushings such as Thomas & Betts 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 Thomas & Betts series 674 shall be installed in conduit runs.
- 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 Thomas & Betts series 1222 or TRIB50.
- Where code requires bonding and grounding of single or multiple rigid metal conduits 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 Thomas & Betts 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.

T&B Conduit Fittings

Rigid Metal Conduit Fittings

Specifications—Locknuts



140 Series
141AL Series



106 Series

Application

- 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.

Features

- Hardened Steel/Malleable Iron/Copper-free Aluminum construction.
- Tightens without deformation.
- Locknuts specially designed to:
 - (i) Provide extended reach for clamping on thin boxes and enclosures
 - (ii) Cut through protective coating on box and enclosure thereby ensuring ground continuity
 - (iii) Permit tightening from outside
 - (iv) Prevent loosening under vibration
- 106 Series provided with a hardened cone point screw.

Standard Material

140 Series & 106 Series

³/₁₆" thru 2" Steel (hardened)
2-1/2" thru 6" Malleable Iron
All screws steel

141AL Series

All copper-free aluminum
(less than .4% copper)

Standard Finish

All Steel and Malleable Iron locknuts including bonding screws
.....Electro-zinc Plated
All Aluminum locknutsdegreased
For chromate coating use prefix 040

Range

- 3/8" through 6" conduit (all threads straight pipe [NPS]) (140 Series)
- 1/2" through 4" conduit (106 Series & 141AL Series)

Conformance

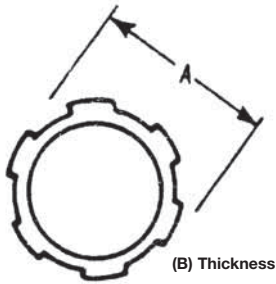
U.L. 514B
CSA C22.2 No. 18.3
NEMA FB-1
ANSI C80.4
Federal Specification W-F-408
Federal Standard H-28 (Threads)

"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/Thomas & Betts 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.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Steel or malleable iron (steel thru 2")
or Aluminum 624

Many of the T&B 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; the fitting can be tightened from outside the box.

Locknuts

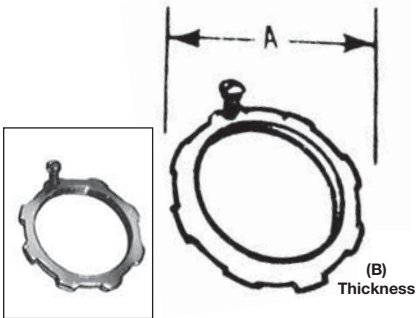
Stl. or M.I.	Cat. No.		Size	Dimensions (in.)	
	Alum.	SST		A	B
139 [†]	—	—	1/4"	27/32	5/32
140*	—	—	3/8"	15/16	5/32
141**	141AL	141SST	1/2"	1-7/64	5/32
142-TB**	142AL	142SST	3/4"	1-3/8	3/16
143	143AL	143SST	1"	1-11/16	13/64
144	144AL	144SST	1-1/4"	2-5/32	13/64
145	145AL	145SST	1-1/2"	2-1/2	13/64
146-TB	146AL	146SST	2"	3	7/32
147	147AL	147SST	2-1/2"	3-9/16	13/32
148	148AL	148SST	3"	4-3/16	13/32
149	149AL	149SST	3-1/2"	4-13/16	15/32
150	150AL	150SST	4"	5-5/16	15/32
151	151AL	151SST	4-1/2"	5-15/16	17/32
152	152AL	152SST	5"	6-1/2	17/32
153	153AL	153SST	6"	7-3/4	17/32

* Hex shape

** Case hardened locknuts

Aluminum locknuts comply with federal standard of copper-free aluminum; less than .4% copper. For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

† Not UL or CSA certified



Steel or malleable iron (steel thru 2").

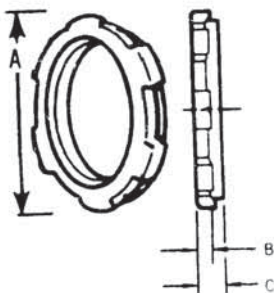
Use anywhere an ordinary locknut is installed to ensure positive bonding of conduit to box and prevent loosening due to vibration. Also can be used for Service Entrance applications in conformance with Code. T&B rigid conduit and E.M.T. (thinwall) fittings comply with Federal Specification WF 408c.

Bonding Locknuts

Cat. No.	Size	Screw Sizes	Dimensions (in.)	
			A	B
106	1/2"	8-32x 7/16"	1-3/8	.125
107	3/4"	8-32x 7/16"	1-5/8	.140
108	1"	8-32x 7/16"	1-15/16	.170
109	1-1/4"	8-32x 7/16"	2-5/32	.170
110-TB	1-1/2"	8-32x 7/16"	2-1/2	.170
111	2"	8-32x 7/16"	3	.187
112-TB	2-1/2"	1/4-20x 5/8"	3-13/32	.375
113-TB	3"	1/4-20x 5/8"	4-13/16	.375
114	3-1/2"	1/4-20x 5/8"	4-29/32	.438
115-TB	4"	1/4-20x 5/8"	5-7/16	.438

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

Steel finish: zinc plated



Molded Santoprene Seal
Color: Blue

Provides positive seal against water and oil. For use with rigid and intermediate metal conduits, or fittings to provide watertight or raintight seal at all enclosures. NPS threads.

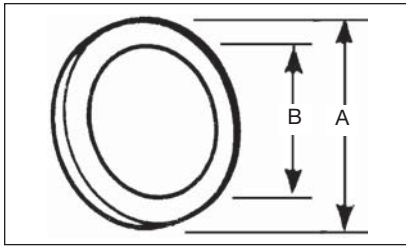
Sealing Fittings

Cat. No.	Size	Dimensions (in.)		
		A	B	C
141SL	1/2	1.140	1/8	1/4
142SL	3/4	1.420	5/32	9/32
143SL	1	1.770	11/64	9/32
144SL	1-1/4	2.281	11/64	5/16
145SL	1-1/2	2.598	11/64	9/32
146SL	2	3.175	3/16	19/64

Steel finish: zinc plated

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



**Sealing Ring-Santoprene
Thermoplastic Rubber**

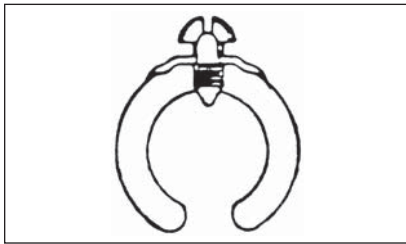
These sealing rings provide a liquid tight, dust tight, seal of fitting at enclosures.

Sealing Rings with Stainless Steel Retainer

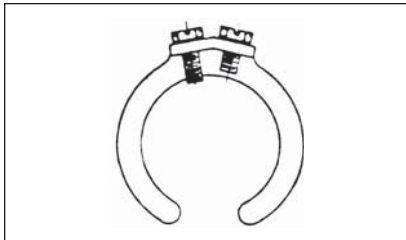
Cat. No.	Conduit Size	Dimensions (in.)	
		A	B ± 1/64
5302	1/2"	1-11/64	3/4
5303	3/4"	1-1/2	15/16
5304	1"	1-3/4	1-11/64
5305	1-1/4"	2-9/64	1-1/2
5306	1-1/2"	2-27/64	1-3/4
5307	2"	2-59/64	2-15/64
5308	2-1/2"	3-7/16	2-43/64
5309	3"	4-5/64	3-19/64
5311	4"	5-9/32	4-19/64

NEMA 3R, 4, 6 and 13

Bonding & Grounding Wedges



Series 3650



Series 3651



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.

Application

To effectively bond terminating fitting or conduit to a box or enclosure.

Features

- Sizes 3/4" thru 6" 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

1/2" sizeSteel/Electro-zinc Plated
3/4" thru 6" size.....Bronze/Tin Plated

Range

1/2" thru 6" conduit

Conformity

U.L. 467
C.S.A. C22.2 No. 41
NFPA70-2008 (ANSI)
Federal Specification A-A-50552

Bonding and Grounding Wedges



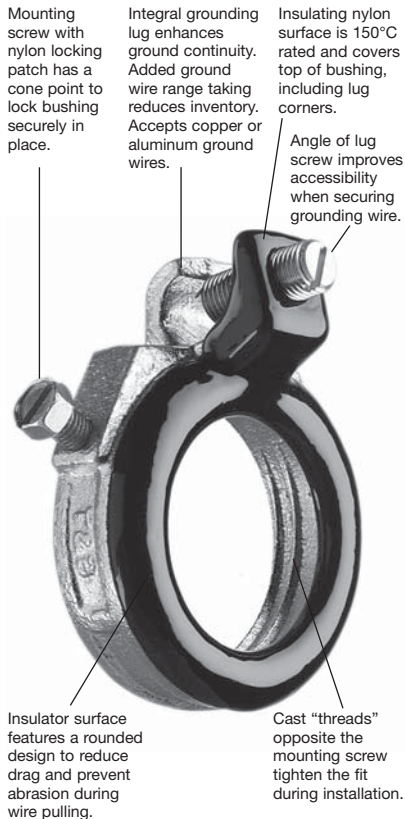
Cat. No.	Size
3650	1/2"
3651	3/4"
3652	1"
3653	1-1/4"
3654	1-1/2"
3655	2"
3656	2-1/2"
3657	3"
3658	3-1/2"
3659	4"
3661	5"
3662	6"

T&B Conduit Fittings

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.



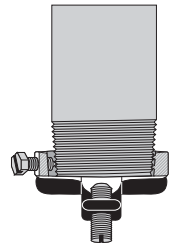
Innovative design improves performance.

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 conduits. 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 conduits, 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.



Blackjack® – Conduit Grounding Bushing

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: (1/2"-2") Stainless Steel, (2-1/2"-6") Brass
 Lug Screw: Stainless Steel
 Finish: Zinc Plated or Mechanical Galvanized

Range

Conduit: 1/2 thru 6" threaded or threadless rigid/IMC
 Wire Range: #14 AWG to 4/0 AWG
 CU/AL

Conformity

U.L. 514B & U.L. 467
 CSA C22.2 No. 18.3 & CSA C22.2 No. 41

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Blackjack® — Conduit Grounding Bushings

Zinc Plated Malleable Iron	Cat No.	Conduit Size in.	Dim.					Wire Range
			ØA Max.	ØB Max.	ØC Max.	ØD Max.	E Max.	
	Aluminum							
BG050-14-20	BGA050-14-20	1/2	1.251	.569	1.181	2.134	.696	14-2/0
BG050-14-4	BGA050-14-4	1/2	1.251	.569	1.027	1.940	.696	14-4
BG075-14-20	BGA075-14-20	3/4	1.533	.772	1.221	2.414	.696	14-2/0
BG075-14-4	BGA075-14-4	3/4	1.533	.772	1.030	2.168	.696	14-4
BG100-14-20	BGA100-14-20	1	1.783	.993	1.181	2.581	.696	14-2/0
BG100-14-4	BGA100-14-4	1	1.783	.993	1.027	2.368	.696	14-4
BG125-14-20	BGA125-14-20	1-1/4	2.220	1.319	1.181	2.987	.759	14-2/0
BG150-14-20	BGA150-14-20	1-1/2	2.470	1.553	1.181	3.236	.696	14-2/0
BG200-14-20	BGA200-14-20	2	2.830	2.010	1.181	3.766	.696	14-2/0
BG250-14-20	BGA250-14-20	2-1/2	3.148	2.412	1.181	4.341	.978	14-2/0
BG250-6-40	BGA250-6-40	2-1/2	3.148	2.412	1.524	4.526	.978	6-4/0
BG300-14-20	BGA300-14-20	3	4.042	3.022	1.181	4.966	.978	14-2/0
BG300-6-40	BGA300-6-40	3	4.042	3.022	1.524	5.139	.978	6-4/0
BG350-14-20	BGA350-14-20	3-1/2	4.542	3.491	1.181	5.467	.978	14-2/0
BG350-6-40	BGA350-6-40	3-1/2	4.542	3.491	1.524	5.639	.978	6-4/0
BG400-14-20	BGA400-14-20	4	5.042	3.975	1.181	5.966	.978	14-2/0
BG400-6-40	BGA400-6-40	4	5.042	3.975	1.524	6.139	.978	6-4/0
BG500-14-20	BGA500-14-20	5	6.136	4.991	1.181	7.045	.978	14-2/0
BG500-6-40	BGA500-6-40	5	6.136	4.991	1.524	7.207	.978	6-4/0
BG600-14-20	BGA600-14-20	6	7.199	6.009	1.181	8.087	.978	14-2/0
BG600-6-40	BGAT600-6-40	6	7.199	6.009	1.524	8.409	.978	6-4/0

Suggested Specifications

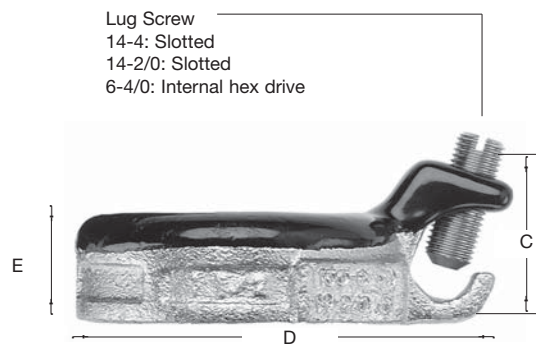
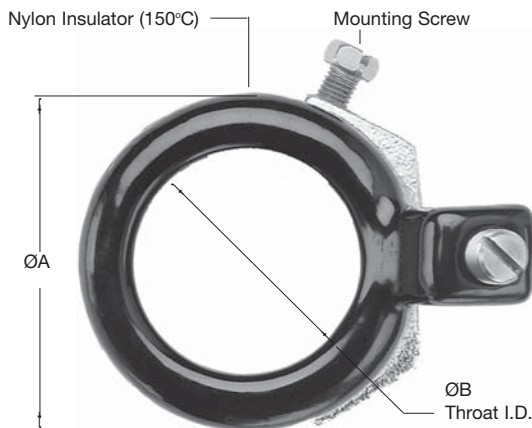
Insulated grounding and bonding bushing
(Series BG050-BG600)

Where code requires bonding and grounding of single or multiple metal conduits, 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 Thomas & Betts.

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-O. Insulator must be positively locked in place.

* Mechanical galvanization is available in the 3870 Series; add suffix **MG** to Cat. No.



For Threaded & Threadless Rigid & IMC Conduit.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Threaded Insulated Grounding Bushing

Application

- For quick installation of bonding jumper to multiple metal conduits (Rigid and IMC).
- Designed to bush conductors and prevent insulation damage.

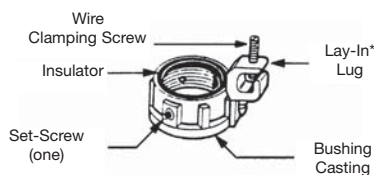
Standard Material / Finish

Body: Electro-zinc plated
Lay-in lug: Aluminum/tin plated
Insulator: Thermoplastic
150°C/302°F

Application with 94V-0 flammability.

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.



Threaded Insulated Grounding Bushing



Cat. No.	Conduit Size	Bushing Dia.	Throat Dia.	Lug Length	Swing Radius	Bushing Height	Wire Range AWG CU/AL
3870-TB	1/2	1.125	.560	1.310	1.212	.657	14-4
3861	1/2	1.125	.560	1.675	1.402	.657	8-2/0
3871-TB	3/4	1.420	.742	1.310	1.360	.660	14-4
3862	3/4	1.420	.742	1.675	1.550	.660	8-2/0
3872	1	1.770	.944	1.310	1.535	.735	14-4
3882	1	1.770	.944	1.675	1.725	.735	8-2/0
3873	1-1/4	2.190	1.242	1.310	1.745	.735	14-4
3883	1-1/4	2.190	1.242	1.675	1.935	.735	8-2/0
3874	1-1/2	2.468	1.449	1.310	1.884	.770	14-4
3884	1-1/2	2.468	1.449	1.675	2.074	.770	8-2/0
3875	2	3.031	1.860	1.310	2.165	.770	14-4
3889	2	3.031	1.860	1.675	2.355	.770	8-2/0
3876	2-1/2	3.516	2.222	1.310	2.408	.940	14-4
3886	2-1/2	3.516	2.222	1.675	2.598	.940	8-2/0
3993	2-1/2	3.516	2.222	2.230	2.928	.940	6-4/0
3877	3	4.234	2.761	1.310	2.767	.975	14-4
3887	3	4.234	2.761	1.675	2.957	.975	8-2/0
3994	3	4.234	2.761	2.230	3.287	.975	6-4/0
3878	3-1/2	4.781	3.193	1.310	3.040	.975	14-4
3863	3-1/2	4.781	3.193	1.675	3.230	.975	8-2/0
3995	3-1/2	4.781	3.193	2.230	3.560	.975	6-4/0
3879	4	5.328	3.623	1.310	3.314	.980	14-4
3864	4	5.328	3.623	1.675	3.504	.980	8-2/0
3996	4	5.328	3.623	2.230	3.834	.980	6-4/0
3880	5	6.328	4.542	1.310	3.814	.985	14-4
3865	5	6.328	4.542	1.675	4.000	.985	8-2/0
3998	5	6.328	4.542	2.230	4.334	.985	6-4/0
3881	6	7.406	5.458	1.310	4.353	1.200	14-4
3866	6	7.406	5.458	1.675	4.543	1.200	8-2/0
3999	6	7.406	5.458	2.230	4.875	1.200	6-4/0

Temperature rating 150°C.

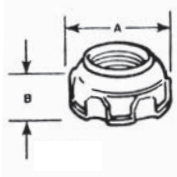
Meets Coast Guard Regulation CG293

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

*Contact customer service for copper lay in lug

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Nylon insulated
metallic bushings

Steel or malleable iron (Steel thru 1-1/2").

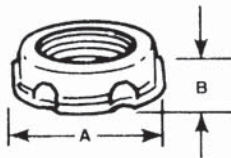
The Canadian Electric Code 10-906 (2) calls for protection of ungrounded conductors by means of smoothly rounded insulating surfaces at the entrance to raceways, pull boxes, junction boxes, etc. T&B insulated throat fittings, recognizable by the distinctive trademarked blue insulating liner in the throat, 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

Cat. No.	Size	Dimensions (in.)	
		A	B
1222	1/2"	1-1/32	29/64
1223	3/4"	1-9/32	31/64
1224	1"	1-19/32	19/32
1225	1-1/4"	1-15/16	21/32
1226	1-1/2"	2-3/16	23/32
1227	2"	2-11/16	7/8
1228	2-1/2"	3-3/16	31/32
1229	3"	3-27/32	15/16
1230	3-1/2"	4-7/16	1-1/16
1231	4"	4-7/8	1-3/32
1232†	4-1/2"	5-7/16	1-15/64
586	5"	5-31/32	1-9/32
587	6"	7-3/16	1-11/32

† Not CSA Certified

Catalogue series 1222 thru 1232, 586 and 587 are available in aluminum. Add suffix **AL** to Cat. No. The aluminum series are not CSA certified.



Aluminum, steel or malleable iron
(steel thru 1-1/2").

Smoothly rounded shoulder covers end of conduit; broad flange covers knockout hole. High ribs make tightening easy with fingers or with wrench. 1/2"-1-1/2" sizes, formed in steel, have extra smooth shoulders. Locknut-type base gives improved bonding and resists loosening under conditions of vibration.

Metallic Bushings



Stl. or M.I.	Cat. No.	Alum.	Size	Dimension (in.)	
				A	B
	122	122AL	1/2"	1-1/32	13/32
	123	123AL*	3/4"	1-9/32	13/32
	124	124AL	1"	1-19/32	1/2
	125-TB	125AL	1-1/4"	1-15/16	9/16
	126	126AL	1-1/2"	2-3/16	9/16
	127	127AL	2"	2-11/16	19/32
	128	128AL	2-1/2"	3-3/16	13/16
	129	129AL	3"	3-27/32	13/16
	130-TB	130AL	3-1/2"	4-7/16	15/16
	131-TB	131AL	4"	4-7/8	1
	132-TB	—	4-1/2"	5-7/16	1-5/64
	133-TB	133AL	5"	6-1/16	1-1/16
	134-TB	134AL	6"	7-3/16	1-1/16

* Not U.L. Listed or CSA Certified

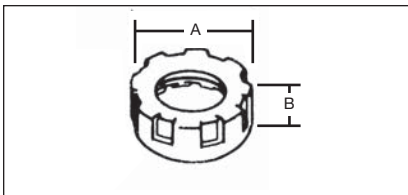
For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Plastic Insulating Bushings



All Plastic Insulating Bushings

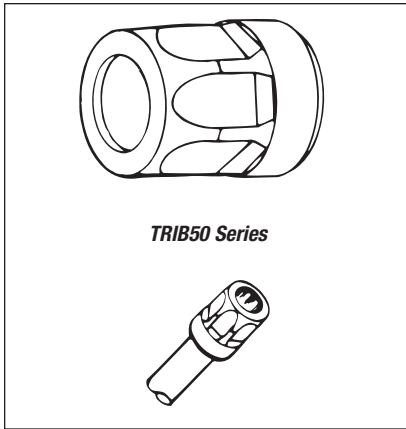
Impact-resistant plastic insulation. These bushings have ribs for gripping when installing. Perfect threads for easy thread on. U.L. Listed 105°C. NPT threaded.

Cat. No.	Size	Dimensions (in.)	
		A	B
222-TB	1/2"	1-1/16	3/8
223-TB	3/4"	1-9/32	13/32
224	1"	1-37/64	9/16
225-TB	1-1/4"	2-1/32	9/16
226	1-1/2"	2-15/64	9/16
227	2"	2-25/32	5/8
228-TB	2-1/2"	3-13/32	3/4
229-TB	3"	4-3/32	3/4
230-TB	3-1/2"	4-5/8	7/8
231	4"	5-3/16	7/8
232	4-1/2"	5-5/8	7/8
233	5"	6-3/8	1
234	6"	7-7/16	1

Flame retardant. U.L. Rated 94V-1.

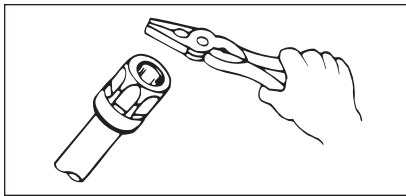
T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

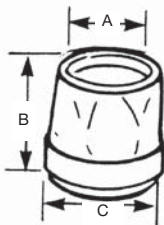
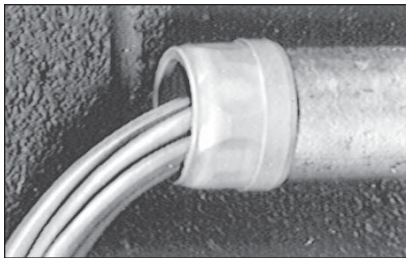


TRIB50 Series

1. Cut conduit end squarely. Remove sharp edges and burrs on inside and outside diameters by reaming or filing.
2. Slip the pop-on bushing over the end of the conduit.



3. Using the flat surface of any standard utility tool such as an electricians pliers (or a hammer with a block of wood, for the larger sizes), strike the bushing on its top surface using a series of light blows until the end of the conduit rests against the bushing throat and conduit stop.



Insulating Bushing

(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

1/2" through 4" conduit

Conformity

U.L. 514B
ANSI C80.4
NFPA 70-2008 (ANSI)

Insulated Metallic Bushing



Cat. No.	Size	Dimensions (in.)		
		A	B	C
TRIB-50	1/2"	19/32	1-9/32	1-1/16
TRIB-75	3/4"	25/32	1-25/64	1-1/4
TRIB-100	1"	1	1-1/2	1-9/16
TRIB-125	1-1/4"	1-5/16	1-5/8	1-59/64
TRIB-150	1-1/2"	1-17/32	1-21/32	2-11/64
TRIB-200	2"	1-31/32	1-13/16	2-11/16
TRIB-250	2-1/2"	2-23/64	2	3-1/4
TRIB-300	3"	2-59/64	2-7/32	3-29/32
TRIB-350	3-1/2"	3-3/8	2-5/16	4-29/64
TRIB-400	4"	3-27/32	2-13/32	5

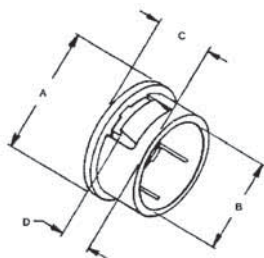
I.M.C. sizes 1/2" thru 4"
U.L. Rated flame retardant 94V-1.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



3210 Series



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 1/2" through 2" knockouts. U.L. Listed 105°C. High impact thermoplastic.



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, E.M.T. (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.

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 U.L. 94) thermoplastic construction.

Standard Material

Thermoplastic rated for 105°C (221°F) application.

Standard Finish

As molded.

Range

- .875" through 2.469" nominal diameter knockout opening (1/2" through 2" trade size knockouts).

- Wall thickness of box or enclosure .095" max. up to 1" trade size. .140" max. 1-1/4" through 2" trade size.

Conformity

U.L. 514B
CSA C22.2 No. 18.3
NFPA 70-2008 (ANSI)



Knockout Bushing

Cat. No.	Trade Size	For use in KO* +.032/-.016	Wall Thickness of Elec. Box				
			A	B	C	D	
3210	1/2"	.875	1.000	.725	.095 MAX	.360	.180
3211	3/4"	1.109	1.215	.940	.095 MAX	.360	.180
3212	1"	1.375	1.500	1.200	.095 MAX	.360	.180
3213	1-1/4"	1.734	1.865	1.550	.140 MAX	.400	.210
3214	1-1/2"	1.984	2.240	1.760	.140 MAX	.530	.310
3215	2"	2.469	2.740	2.245	.140 MAX	.530	.310

* Per U.L. and NEMA standards.

Material: Thermoplastic

Flammability classification of 94V-1 Per UL 94

Service temperature: -40°C to 105°C.

INSULINER® Sleeves



Cat. No.	Size	Dimension (in.)	
		A	B
422	1/2"	5/8	.022
423	3/4"	11/16	.025
424	1"	7/8	.040
425	1-1/4"	1	.040
426-TB	1-1/2"	1	.050
427-TB	2"	1-1/8	.050
428-TB	2-1/2"	1-1/4	.035
429	3"	1-1/2	.035
430-TB	3-1/2"	1-25/32	.035
431	4"	2-1/32	.035
433	5"	2-1/2	.035
434	6"	2-1/2	.035

Oxygen index >28°

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



A penny under a bushing will seal the end of the conduit during construction. Made to fit any bushing. Completely salvageable.

Pennies—Steel



Cat. No.	Size
815-TB	1/2"
816	3/4"
817	1"
818	1-1/4"
819	1-1/2"
820	2"
821	2-1/2"
822	3"
824	3-1/2"
823	4"

U.L. not applicable

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 nondripping (per U.L. 94) thermoplastic construction.

Standard Material

Thermoplastic rated for 105°C (221°F) application.

Standard Finish

As molded.

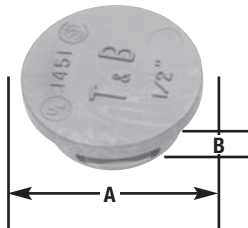
Range

- .875" through 2.469" nominal diameter knockout opening (1/42" through 2" trade size knockouts).

- Wall thickness of box or enclosure .095" max. up to 1" trade size.
.140" max. 1-1/4" through 2" trade size.

Conformity

U.L. 514B
CSA C22.2 No. 18.3
NFPA 70-2008 (ANSI)



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

Knockout Plugs



Cat. No.	Size	Dimensions (in.)	
		A	B
1451	1/2"	1.060	.400
1452	3/4"	1.300	.400
1453	1"	1.590	.400
1454	1-1/4"	1.860	.450
1455	1-1/2"	2.240	.570
1456	2"	2.740	.570

Wall thickness of electrical box .095 max.
Meets Coast Guard Regulation CB293.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Plug, Conduit, Connectors (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 application; 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

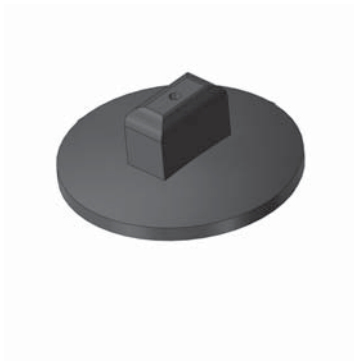
As molded.

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."



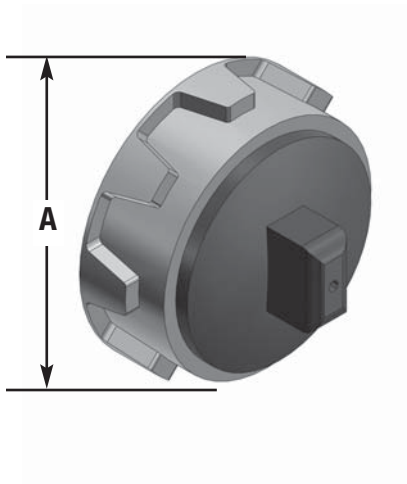
Push-Penny® Plugs

Cat. No.	Size
1470-TB	1/2"
1471	3/4"
1472	1"
1473	1-1/4"
1474	1-1/2"
1475	2"
1476*	2-1/2"
1477*	3"
1478*	3-1/2"
1479*	4"

*Not CSA Certified.

CSA File No. 2884

UL not applicable.



Bushings and Push-Penny® Plugs



Cat. No.	Size	A	Assembly consist of	
			Bushing	Push-penny
1460	1/2"	1-1/32"	122	1470-TB
1461	3/4"	1-9/32"	123	1471
1462	1"	1-19/32"	124	1472
1463	1-1/4"	1-15/16"	125	1473
1464	1-1/2"	2-3/16"	126	1474
1465*	2"	2-21/32"	127	1475

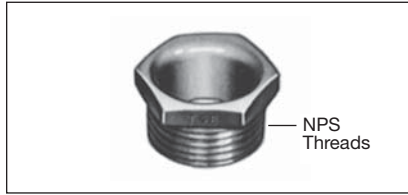
* Maleable Iron

Available in Aluminum

Add suffix **AL** to Cat. No.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



1942 Series
842AL Series (Non Insulated)

CHASE® Nipple

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 1/2"-Steel
3/8", 3/4" through 6"-Malleable Iron
Insulator Nylon

842AL Series

All Copper-free Aluminum
(less than .4% copper)

Standard Finish

1942 Series Electro-zinc Plated
& Chromate Coated
842AL Series Degreased

Range 1942 & 842AL Series

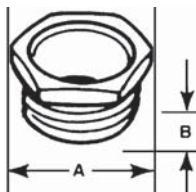
1/4" through 6"
All hub threads straight pipe (NPS).

Conformity

U.L. 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)



Steel, malleable iron or aluminum.



CHASE® Nipples



Stl. or M.I.	Cat. No.	Alum.	Size	Dimensions (in.)	
				A	B
841TB		—	3/8"	13/16	7/16
842TB		842ALTB [†]	1/2"	15/16	11/32
843TB		843ALTB	3/4"	1-3/16	11/32
844		844AL [†]	1"	1-7/16	21/32
845		845AL [†]	1-1/4"	1-3/4	3/4
846		846AL	1-1/2"	2-1/16	13/16
847		847AL	2"	2-1/2	31/32
848		848AL	2-1/2"	3-1/16	1-1/16
849		849AL	3"	3-13/16	1-3/16
850		850AL	3-1/2"	4-3/8	1-5/16
851		851AL	4"	4-3/4	1-5/16
853		853AL	5"	5-7/8	1-5/16
854		854AL	6"	6-15/16	1-3/8

[†] Not U.L. Listed

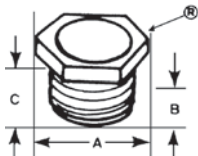
For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Steel or malleable iron

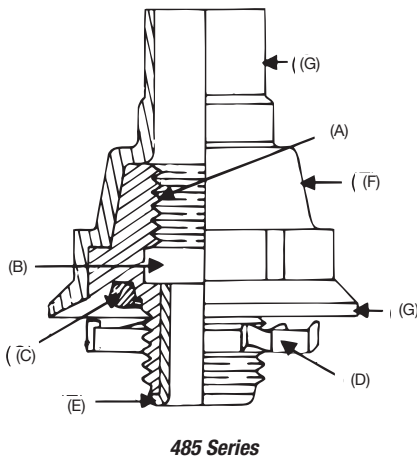
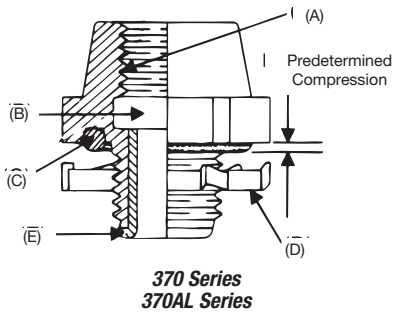


CHASE® Nipples—Nylon Insulated

Cat. No.	Size in.	Dimensions (in.)		
		A	B	C
1942	1/2	15/16	1/2	19/32
1943	3/4	1-3/16	17/32	23/32
1944	1	1-7/16	21/32	7/8
1945	1-1/4	1-3/4	25/32	1-1/32
1946	1-1/2	2-1/16	13/16	1-3/32
1947	2	2-9/16	31/32	1-11/32
1948	2-1/2	3-1/16	1-1/16	1-7/16
1949	3	3-13/16	1-3/16	1-19/32
1950	3-1/2	4-3/8	1-5/16	1-25/32
1951	4	4-5/8	1-5/16	1-13/16
1953	5	5-29/32	1-5/16	1-13/16
1954	6	6-13/16	1-3/8	1-7/8

T&B Conduit Fittings

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:

- (i) 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

- (i) Protects fitting from extremely corrosive surroundings without affecting integrity of electrical grounding path (F).
- (ii) 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".

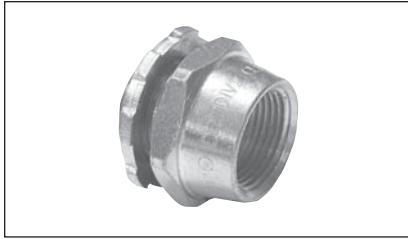
Joint Industrial Council (JIC) Electrical Standards also forbid dissimilar metals in contact for the same reason and require that the fittings for metal conduit be of malleable iron or ductile iron and have impact strength comparable to that of the conduit.

"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.

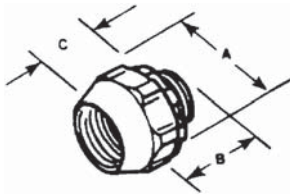
T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Nylon insulated.

Aluminum, steel, or malleable iron (steel through 1"). With Neoprene "O" Ring provides a watertight threaded hub on enclosures. U.L. Listed 105°C.



Steel/Malleable Iron and Aluminum Hub Fittings[†]

Stl. or M.I.	Cat. No.	Alum.**	Size	Dimensions (in.)			Wall Thk. (max.)in.
				A	B	C	
370	370AL		1/2	1-3/8	1-5/16	3/4	5/16
371	371AL		3/4	1-5/8	1-3/8	7/8	5/16
372	372AL		1	2-3/32	1-23/32	1-7/32	5/16
373	373AL		1-1/4	2-9/16	2	1-11/32	5/16
374	374AL		1-1/2	3-3/32	2	1-11/32	5/16
375	375AL		2	3-5/8	1-31/32	1-11/32	5/16
376	—		2-1/2	4-1/8	2-21/32	1-15/16	5/16
377	—		3	5	2-31/32	2	1/2
378	—		3-1/2	5-9/16	3-1/8	2-1/8	1/2
379-TB	—		4	6-9/16	3-1/8	2-1/8	1/2
381-TB	—		5	8	4	2-3/16	1/2
382-TB	—		6	9-3/16	4	2-3/16	1/2

** Aluminum not available with insulated throat.

[†] U.L. Listed raintight and CSA Certified watertight and dust tight.

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

Bullet® Hub Fittings with Bonding Locknut — Nylon Insulated



Cat. No.	Size (in.)	Description
401	1/2	
402	3/4	
403-TB	1	Available in steel or malleable iron
404-TB	1-1/4	(steel through 1 inch.)
405-TB	1-1/2	Used with a neoprene "O" ring to provide
407	2-1/2	Supplied with 106 series bonding nut.
408	3	Temperature rating: 105°C.
409	3-1/2	
410-TB	4	

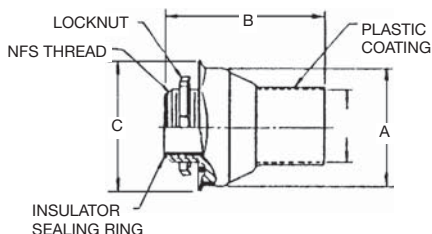
CSA certified watertight and dust tight.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Steel or malleable iron (steel thru 1-1/4").



PVC Coated Hub for Rigid Conduit

Cat. No.	Conduit Size	Dimensions (in.)		
		A	B	C
485	1/2"	1-21/64	2-1/8	1-7/8
486	3/4"	1-19/32	2-3/8	2-1/8
487	1"	1-27/32	2-3/4	2-3/8
488	1-1/4"	2-15/32	3-3/8	3-1/8
489	1-1/2"	2-29/32	3-5/8	3-1/2
490	2"	3-3/8	3-3/4	4
491	2-1/2"	3-27/32	4	4-1/2
492	3"	4-21/32	4-5/8	5-3/8
493	3-1/2"	5-9/64	4-13/16	5-7/8
494	4"	5-3/4	4-9/16	6-7/16

*485 Series are CSA Certified Watertight and Dustight for Ordinary Locations.

Spacing Chart for Bullet® Hubs



	Center to Center Spacing Conduit Sizes										Min. Space from Center of Bullet® Hub to Wall of Box	KO Diameters (min.)
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4		
1/2	1-7/16	1-5/8	1-3/4	2-1/8	2-3/8	2-5/8	2-7/8	3-5/16	3-1/2	3-7/8	3/4	7/8
3/4	—	1-3/4	1-7/8	2-1/4	2-1/2	2-3/4	3	3-1/2	3-3/4	4-1/8	7/8	1-1/8
1	—	—	2	2-3/8	2-5/8	2-7/8	3-1/8	3-5/8	3-7/8	4-1/4	1-1/8	1-3/8
1-1/4	—	—	—	2-11/16	2-15/16	3-1/4	3-1/2	4	4-1/4	4-1/2	1-3/8	1-3/4
1-1/2	—	—	—	—	3-1/8	3-1/2	3-3/4	4-1/8	4-3/8	4-3/4	1-5/8	2
2	—	—	—	—	—	3-3/4	4	4-1/2	4-3/4	5	1-7/8	2-1/2
2-1/2	—	—	—	—	—	—	4-1/4	4-3/4	5	5-3/8	2-1/8	3
3	—	—	—	—	—	—	—	5-1/8	5-3/8	5-3/4	2-5/8	3-5/8
3-1/2	—	—	—	—	—	—	—	—	5-5/8	6	2-7/8	4-1/8
4	—	—	—	—	—	—	—	—	—	6-1/4	3-1/4	4-5/8

T&B Hub Centerline Spacing Chart



Conduit Trade Size inc.	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
1/2"	1-9/16											
3/4"	1-43/64	1-25/32										
1"	1-27/32	1-61/64	2-1/8									
1-1/4"	2-1/32	2-9/64	2-5/16	2-1/2								
1-1/2"	2-7/32	2-21/64	2-1/2	2-11/16	2-7/8							
2"	2-15/32	2-37/64	2-3/4	2-15/16	3-1/8	3-3/8						
2-1/2"	2-23/32	2-53/64	3	3-3/16	3-3/8	3-5/8	3-7/8					
3"	3-1/32	3-9/64	3-5/16	3-1/2	3-11/16	3-15/16	4-3/16	4-1/2				
3-1/2"	3-11/32	3-21/64	3-5/8	3-13/16	4	4-1/4	4-1/2	4-13/16	5-1/8			
4"	3-19/32	3}	3-7/8	4-1/16	4-1/4	4-1/2	4-3/4	5-1/16	5-3/8	5-5/8		
5"	4-9/32	3-25/64	4-9/16	4-3/4	4-15/16	5-3/16	5-7/16	5-3/4	6-1/16	6-5/16	7	
6"	4-11/16	4-51/64	4-31/32	5-5/32	5-11/32	5-19/32	5-27/32	6-5/32	6-15/32	6-23/32	7-13/32	7-13/16

Nearest obstruction to center of hub.

27/32	61/64	1-1/8	1-5/16	1-1/2	1-3/4	2	2-5/16	2-5/8	2-7/8	2-9/16	3-31/32
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T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



THE T&B Hub

Never before has a single hub fit like this one. Designed for unequalled performance. The innovative engineering of the T&B 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.

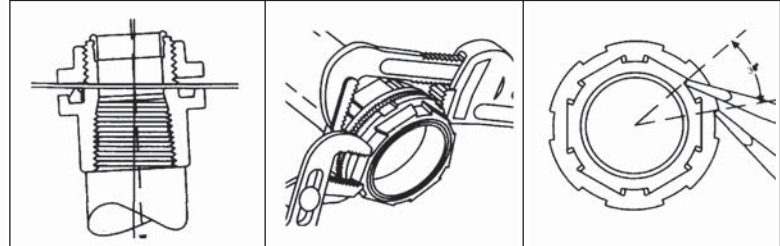
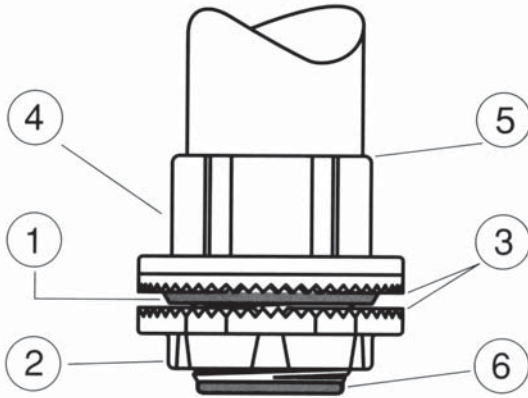


Figure 1

Figure 2

Figure 3

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)

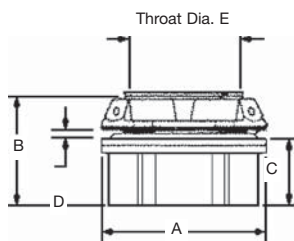
2. Locknut design with peripheral slots and a hexagonal/angled spline spaced every 30° enables easy application of torque with wrench or hammer and screwdriver. (See Figures 2 & 3)

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 water-tight union.

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



T&B Hub

Cat. No.	Trade Size (in.)	Dia.			Max. Panel Thickness D	Throat Dia. E
		A	B	C		
H050-TB	1/2	1-7/16	1-9/16	7/8	3/16	19/32
H075-TB	3/4	1-21/32	1-19/32	29/32	3/16	25/32
H100-TB	1	2	1-13/16	1-1/16	1/4	1
H125-TB	1-1/4	2-3/8	1-7/8	1-1/16	1/4	1-5/16
H150-TB	1-1/2	2-3/4	1-7/8	1-1/16	1/4	1-17/32
H200-TB	2	3-1/4	1-15/16	1-5/32	1/4	1-31/32
H250-TB	2-1/2	3-3/4	2-9/16	1-9/16	1/4	2-13/32
H300-TB	3	4-3/8	2-21/32	1-19/32	1/4	2-31/32
H350-TB	3-1/2	5	2-23/32	1-5/8	1/4	3-13/32
H400-TB	4	5-1/2	2-23/32	1-5/8	1/4	3-7/8
H500-TB	5	6-7/8	3-1/32	1-15/16	1/4	4-15/16
H600-TB	6	7-11/16	3-5/32	2	1/4	6

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 Aluminum Hubs add suffix **A** (i.e. H050A). For Chrome Plated Hubs add suffix **CP** (i.e. H050CP). Meets NEMA sealing requirements for NEMA 3R, 4 & 13 enclosures.

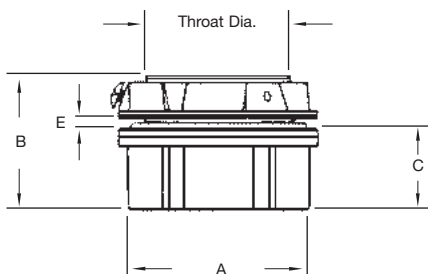
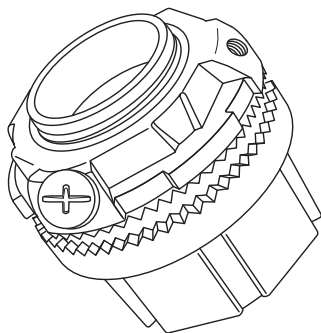
U.L. Listed and CSA Certified. CSA Certified for hazardous locations Class II Groups E, F, G Class III. Chrome Plated Hubs (suffix-"CP") are rated NEMA 4X.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



T&B Grounding Hub



Cat. No.	Trade Size	Dimensions (in.)				
		A Dia.	B	C	D Max. Panel Thickness	E Throat Dia.
H050GR-C	1/2	17/16	19/16	7/8	3/16	19/32
H075GR-C	3/4	12-1/32	1-19/32	29/32	3/16	25/32
H100GR-C	1	2	1-13/16	1-1/16	1/4	1
H125GR-C	1-1/4	2-3/8	1-7/8	1-1/16	1/4	1-5/16
H150GR-C	1-1/2	2-3/4	1-7/8	1-1/16	1/4	1-17/32
H200GR-C	2	3-1/4	1-15/16	1-15/32	1/4	1-31/32
H250GR-C	2-1/2	3-3/4	2-9/16	1-9/16	1/4	2-13/32
H300GR-C	3	4-3/8	2-21/32	1-19/32	1/4	2-31/32
H350GR-C	3-1/2	5	2-23/32	1-5/8	1/4	3-13/32
H400GR-C	4	5-1/2	2-23/32	1-5/8	1/4	3-7/8
H500GR-C	5	6-7/8	3-1/32	1-15/16	1/4	4-15/16
H600GR-C	6	7-11/16	3-5/32	2	5/16	6

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 Aluminum Grounding Hubs add suffix **A** (i.e. H050GRA-C).

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).

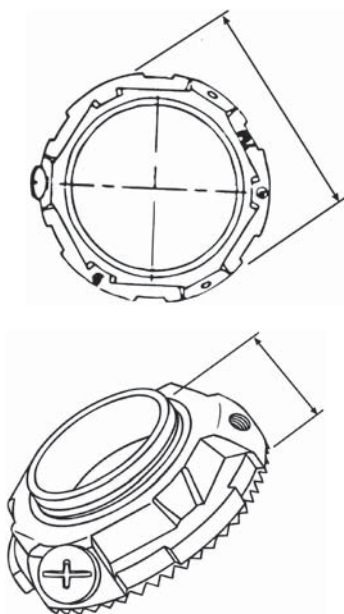
Meets NEMA sealing requirements for NEMA 3R, 4 & 13 enclosures.

U.L. Listed and CSA Certified.

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



T&B Grounding and Bonding Locknut



Cat. No.	Trade Size	A Dia.	B Height	Ground Screw	Max. Conductor Size
L050GR-C	1/2	1-1/2	13/32	#10-32 x 1/4"	#10
L075GR-C	3/4	1-11/16	13/32	#10-32 x 1/4"	#10
L100GR-C	1	2	13/32	#10-32 x 1/4"	#10
L125GR-C	1-1/4	2-3/8	15/32	1¼-20 x 1/4"	#10
L150GR-C	1-1/2	2-3/4	15/32	1¼-20 x 5/16"	#8
L200GR-C	2	3-1/4	15/32	1¼-20 x 5/16"	#8
L250GR-C	2-1/2	3-3/4	11/16	1¼-20 x 5/16"	#6
L300GR-C	3	4-3/8	23/32	1¼-20 x 5/16"	#6
L350GR-C	3-1/2	5	23/32	1¼-20 x 5/16"	#6
L400GR-C	4	5-1/2	23/32	1¼-20 x 5/16"	#4
L500GR-C	5	6-5/8	23/32	3¼-16 x 3/8"	#2
L600GR-C	6	7-11/16	23/32	3¼-16 x 3/8"	#1

Material—Locknut: zinc or copper-free aluminum

For Aluminum Locknuts add suffix **A** (i.e. L050GRA-C)

For Chrome Plated Locknuts add suffix **CP** (i.e. L050GR-CP)

For 316 Stainless Steel Locknuts add suffix **SST** (i.e. L050GRSST).

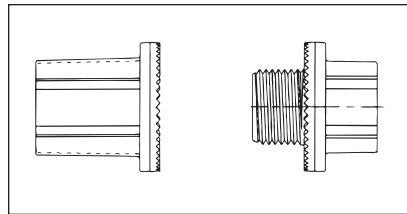
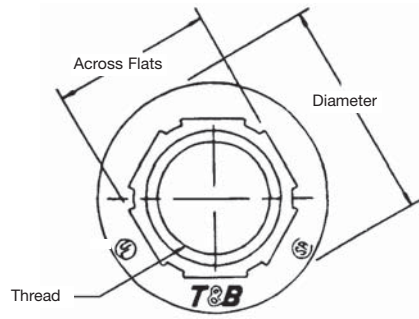
Grounding Locknut for Hubs

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

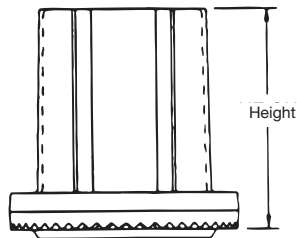


T&B Bulkhead Fittings

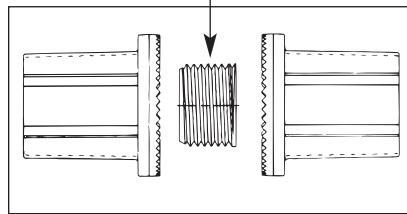


Bulkhead Fitting

Cat. No.	Trade Size
H050BHD	1/2"
H075BHD	3/4"
H100BHD	1"
H125BHD	1-1/4"
H150BHD	1-1/2"
H200BHD	2"
H250BHD	2-1/2"
H300BHD	3"
H350BHD	3-1/2"
H400BHD	4"
H500BHD	5"
H600BHD	6"

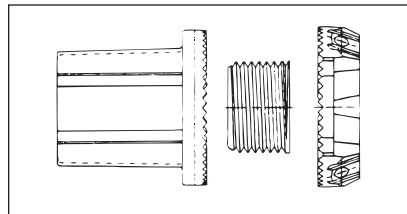
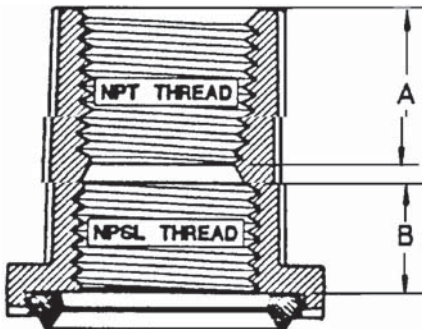


Nipple Nut
Not Included



Thru Bulkhead Fitting

Trade Cat. No.	Size
H050TBF	1/2"
H075TBF	3/4"
H100TBF	1"
H125TBF	1-1/4"
H150TBF	1-1/2"
H200TBF	2"



Thru Bulkhead Hub

Trade Cat. No.	Size
H050TBH	1/2"
H075TBH	3/4"
H100TBH	1"
H125TBH	1-1/4"
H150TBH	1-1/2"
H200TBH	2"

Trade Size	Thread	Height	Diameter	Across Flats	A	B
1/2"	1/2"-14	1-13/32	1-7/16	1	3/4	1/2
3/4"	3/4"-14	1-15/32	1-11/16	1-1/4	25/32	17/32
1"	1"-11-1/2	1-11/16	2	1-17/32	29/32	19/32
1/4"	1-1/4"-11-1/2	1-25/32	2-3/8	1-27/32	29/32	21/32
1-1/2"	1-1/2"-11-1/2	1-13/16	2-3/4	1-1/8	29/32	21/32
2"	2"-1-1/2	1-27/32	3-1/4	2-5/8	15/16	21/32
2-1/2"	2-1/2"-8	29/32	3-3/4	3-1/8	17/32	7/8
3"	3"-8	2-9/16	4-3/8	3-25/32	15/16	29/32
3-1/2"	3-1/2"-8	2-9/16	5	4-9/32	1-3/8	7/8
4"	4"-8	2-9/16	5-1/2	4-27/32	1-3/8	7/8
5"	5"-8	2-23/32	6-5/8	5-29/32	1-15/32	7/8
6"	6"-8	3	7-11/16	7-1/32	1-1/2	31/32

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 Aluminum Bulkhead add suffix **A**.

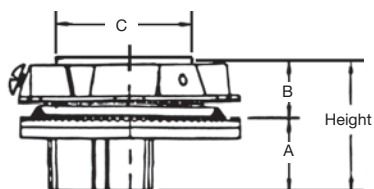
For Chrome Plated Bulkhead add suffix **CP**.

T&B Conduit Fittings

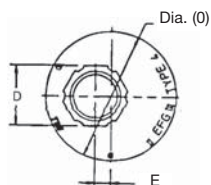
Rigid and Intermediate Metal Conduit Fittings



Offset Reducers



Dia. (Ø)



Cat. No.	Trade Size	Height	Dia. (Ø)	Dimensions (in.)				
				A	B	C	D	E
H150-075ORGR-TB	1-1/2"-3/4"	1-21/32	2-3/4	15/16	23/32	1-29/32	1-9/32	11/32
H150-100ORGR-TB	1-1/2"-1"	1-25/32	2-3/4	1-1/16	23/32	1-29/32	1-9/16	7/32
H150-125ORGR-TB	1-1/2"-1-1/4"	1-25/32	2-3/4	1-1/16	23/32	1-29/32	1-7/8	1/32
H250-200ORGR-TB	2-1/2"-2"	2-1/8	3-3/4	1-3/16	15/16	2-29/32	2-21/32	3/32

Material—Offset Reducer and Locknut: zinc or copper-free aluminum

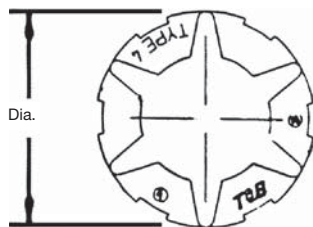
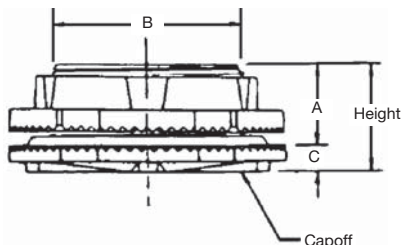
Insulating Throat: thermoplastic temp. rating—105°C; Flammability rating—94V-0

Sealing Ring: Nitrile (BUNA "N")

For Aluminum Offset Reducer add suffix **A**. (i.e. H150-125ORGRA-TB)

For Chrome Plated Offset Reducer add suffix **CP**. (i.e. H150-125ORGRCP-TB)

Capoffs



Cat. No.	Trade Size	Height	Diameter	Dimensions (in.)		
				A	B	C
H050CAP	1/2"	1-13/32	1-7/16	19/32	27/32	3/16
H075CAP	3/4"	1-15/32	1-11/16	19/32	1-1/16	3/16
H100CAP	1"	1-11/16	2	11/16	1-5/16	1/4
H125CAP	1-1/4"	1-25/32	2-3/8	23/32	1-21/32	1/4
H150CAP	1-1/2"	1-13/16	2-3/4	23/32	1-29/32	1/4
H200CAP	2"	1-27/32	3-1/4	23/32	2-3/8	1/4
H250CAP	2-1/2"	2-9/32	3-3/4	7/8	2-29/32	1/4
H300CAP	3"	2-9/16	4-3/8	7/8	3-1/32	11/32
H350CAP	3-1/2"	2-9/16	5	29/32	4-1/32	11/32
H400CAP	4"	2-9/16	5-1/2	29/32	4-1/2	11/32
H500CAP	5"	2-23/32	6-5/8	29/32	5-9/16	11/32
H600CAP	6"	3	7-5/8	31/32	6-5/8	11/32

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 Aluminum Capoff add suffix **A**. (i.e. H050CAPA)

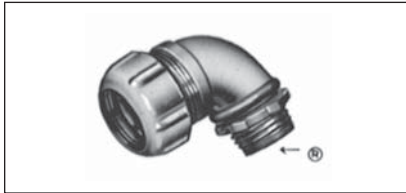
For Chrome Plated Capoff add suffix **CP**. (i.e. H050CAPCP)

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



8123 Series



8130 Series



8120 Series

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 locknut 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 (1/2" through 1-1/2" size) and 20,000 amps RMS (2" and above sizes) duration of current 3 cycles.

Standard Material

Nut, Gland	1/2" to 1" Steel—1-1/4" to 4" Malleable Iron
Body	All Malleable Iron
Ring	Steel (case hardened)
Insulator	Nylon
Locknut	1/2" thru 2" Steel (hardened) 2" thru 4" Malleable Iron

Standard Finish

Electro Zinc Plated & Chromate Coated

Range

- 8123 & 8120 Series 1/2" through 4" Size Conduit
- 8130 Series 1/2" and 3/4" Size Conduit
- All hub threads Straight Pipe (NPS)

Conformity

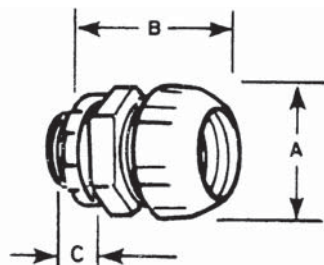
U.L. 514B
 CSA C22.2 No. 18.3
 ANSI C80.4
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 Federal Specification W-F-408
 Federal Standard H-28 (Threads)

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



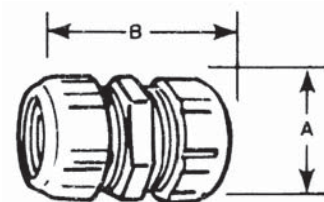
Nylon Insulated Threadless Fittings



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.

Cat. No.		Conduit Size	Dimensions (in.)		
Nylon Insul.	Non-Insul.		A	B	C
8123	8121	1/2"	1-11/32	1-15/16	3/4
8223	8221	3/4"	1-5/8	2	3/4
8323	8321	1"	1-7/8	2-7/16	7/8
8423	8421	1-1/4"	2-3/8	2-9/16	11/16
8523	8521	1-1/2"	2-5/8	2-3/4	3/4
8623	8621	2"	3-1/4	2-15/16	27/32
8723-TB	8721	2-1/2"	3-15/16	3-15/16	1-1/8
8823-TB	8821	3"	4-11/16	4-1/8	1-7/32
8853	8851	3-1/2"	5-3/16	4-1/4	1-1/8
8973	8971	4"	5-11/16	5	1-1/8

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.



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

Threadless Couplings



Cat. No.	Size	Dimensions (in.)	
		A	B
8120	1/2"	1-9/32	2
8220	3/4"	1-19/32	2-5/16
8320	1"	1-7/8	2-11/16
8420	1-1/4"	2-3/8	2-13/16
8520	1-1/2"	2-5/8	3-5/8
8620	2"	3-1/4	3-13/16
8720	2-1/2"	3-15/16	5-3/8
8820	3"	4-11/16	5-1/2
8850	3-1/2"	5-3/16	5-1/2
8970	4"	5-11/16	5-1/2

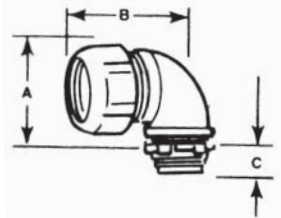
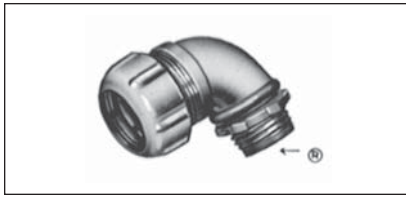
For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Threadless Short Elbows—Nylon Insulated



Cat. No.	Size	Dimensions (in.)		
		A	B	C
8130	1/2"	1-11/32	1-1/2	1/2
8131	3/4"	1-5/8	1-3/4	9/16
8132	1"	1-7/8	1-15/16	11/16
8134	1-1/2"	2-23/32	3-1/8	13/16

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

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.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Specifications—Set Screw Fitting/Coupling

(For Threadless Rigid Metal Conduit and Intermediate Metal Conduit)



8125 Series



8124 Series

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:
 - (i) Prevents thinning of insulation.
 - (ii) Reduces installation effort.
 - (iii) Prevents first thread damage.
- Coupling provided with positive center stop.
- Suitable for concretetight application.
- Capable of carrying ground fault currents up to 10,000 amps RMS (1/42 through 1-1/2" size) and 20,000 amps RMS (2" and above sizes).

Standard Material

Body	1/2" thru 2" Steel 2-1/2" thru 4" Malleable Iron
Locknut	1/2" thru 2" Steel (hardened) 2-1/2" thru 4" Malleable Iron
Screw	Steel (hardened)
Insulator	Nylon

Standard Finish

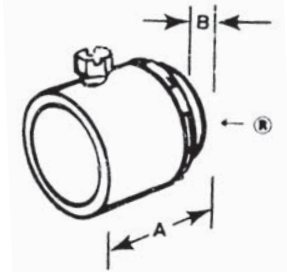
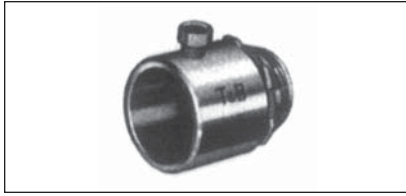
Electro Zinc Plated & Chromate Coated.

Conformity

U.L. 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)

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

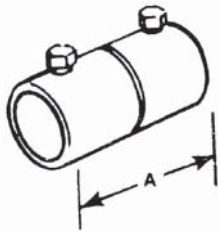


Eliminate conduit threading with these set screw fittings. Captive hex head screws tighten down onto conduit for positive holding strength and ground. The fittings are furnished with insulated throats reducing wire pulling effort by as much as 50%. Approved concrete-tight.

Insulated Set-Screw Fitting

Cat. No.	Conduit Size	Dimensions (in.)	
		A	B
8125	1/2"	1-3/8	13/32
8225	3/4"	1-1/2	7/16
8325	1"	1-13/16	35/65
8425	1-1/4"	2	5/8
8525-TB	1-1/2"	2-5/16	5/8
8625	2"	2-7/16	11/16
8725-TB	2-1/2"	3-3/8	1
8825	3"	3-7/16	1
8855	3-1/2"	3-7/8	1-1/16
8975	4"	4-3/16	1-1/8

Sizes 1/2"-2" made of steel. Sizes 2-1/2"-4" are malleable iron.
For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.



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.

Set Screw Coupling



Cat. No.	Conduit Size	Dimensions (in.)
		A
8124	1/2"	2-1/2
8224-TB	3/4"	2-11/16
8324-TB	1"	2-27/32
8424	1-1/4"	3
8524	1-1/2"	3-3/8
8624	2"	3-5/8
8724-TB	2-1/2"	3-7/8
8824-TB	3"	4-1/4
8854	3-1/2"	4-15/16
8974	4"	5-3/8

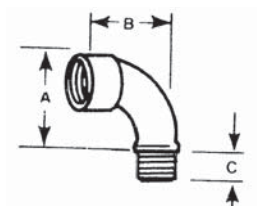
Sizes 1/2"-2" made of steel; sizes 2-1/2"-4" are malleable iron.
For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Bushed Elbows



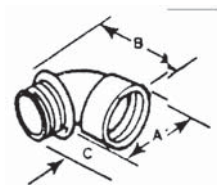
The noninsulated elbow has smoothly rounded shoulders to protect conductor insulation. Malleable iron.

Cat. No.	Size	Dimensions (in.)		
		A	B	C
460TB	1/2"	1-13/16	1-1/8	5/8
461TB	3/4"	2-1/4	1-1/2	9/16
462	1"	2-23/32	1-23/32	11/16
463	1-1/4"	3-1/8	2-1/16	25/32

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.



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.

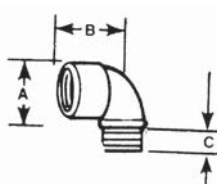
Cat. No.	Size	Dimensions (in.)		
		A	B	C
4290	1/2"	1-7/32	1-1/4	1/2
4291	3/4"	1-7/16	1-5/16	9/16
4292	1"	1-23/32	1-9/16	11/16
4293	1-1/4"	2-7/32	2-1/16	13/16
4294	1-1/2"	2-15/32	2-3/16	13/16
4295	2"	3	2-9/16	13/16

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

Not U.L. Listed



Short Elbows



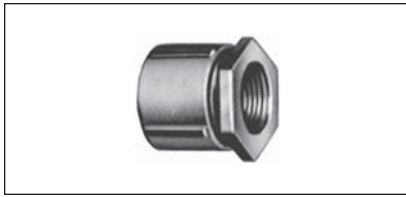
When an insulated elbow is not desired, the Noninsulated short elbow should be used. Malleable iron.

Cat. No.	Size	Dimensions (in.)		
		A	B	C
4250	1/2"	1-5/16	1-1/4	7/16
4251	3/4"	1-17/32	1-5/16	1/2
4252	1"	1-13/16	1-9/16	5/8
4253	1-1/4"	2-9/32	2-1/16	11/16
4254	1-1/2"	2-9/16	2-3/16	11/16
4255	2"	3-3/32	2-9/16	11/16

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



674 Series
675AL Series

Threaded Coupling (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 (1/2" through 1-1/2" size) and up to 20,000 amps RMS (2" 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" or Malleable Iron

675AL Series

Bushing and Body Aluminum
Ring Aluminum

Standard Finish

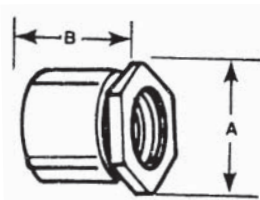
674 Series: Electro Zinc Plated & Chromate Coated
675AL Series: Degreased

Range

- 674 Series: 3/8" thru 6" Conduit
- 675AL Series: 1/2" thru 6" Conduit
- All straight pipe threads (NPS)

Conformity

U.L. 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.

ERICKSON® Couplings



Cat. No.	Mal. Iron	Alum.*	Size	Dimensions (in.)	
				A	B
674		—	3/8"	1-1/8	1-1/8
675		675AL	1/2"	1-15/32	1-1/4
676		676AL	3/4"	1-9/16	1-13/32
677		677AL	1"	1-29/32	1-5/8
678		678AL	1-1/4"	2-3/8	1-13/16
679		679AL	1-1/2"	2-5/8	1-31/32
680-TB		680AL	2"	3-7/32	2-7/32
681		681AL	2-1/2"	3-3/32	2-11/16
682		682AL	3"	4-7/16	2-29/32
683		683AL	3-1/2"	5	3
684		684AL	4"	5-1/2	3-3/16
685		685AL [†]	4-1/2"	6-1/4	3-15/32
686		686AL	5"	6-25/32	3-3/4
687		687AL	6"	8	4-1/32

* Copper-free Aluminum (less than .4% Copper).

U.L. Listed and CSA Certified concrete-tight.

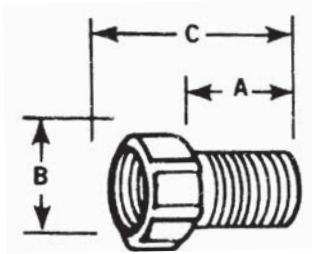
[†] Not CSA Certified.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

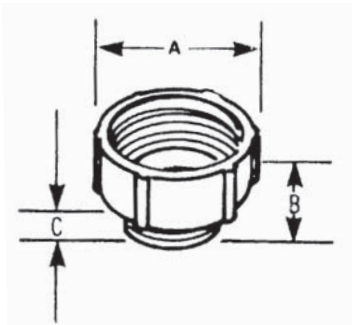


Panel Fitting Extensions



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

Cat. No.	Size	Dimensions (in.)		
		A	B	C
1440	1/2"	1-1/4	1-3/16	1-7/8
1441	3/4"	1-1/4	1-13/32	1-15/16
1442	1"	1-3/16	1-21/32	1-15/16
1443	1-1/4"	1-1/4	2-1/8	2



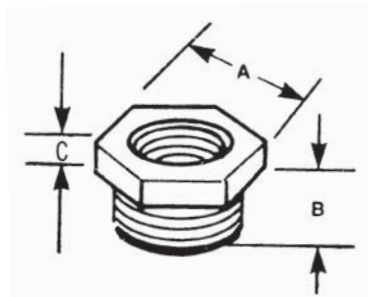
Adapt an outlet hole to the next larger size of conduit. Rough ends of conduit carefully covered by built-in bushing. Malleable iron.

Male Enlargers*



Cat. No.	Size	Dimensions (in.)		
		A	B	C
1245	1/2" to 3/4"	1-1/4	1-5/32	1/2
1246	3/4" to 1"	1-17/32	1-9/32	15/32
1244	1" to 1-1/4"	1-7/8	1-7/16	17/32
1247	1-1/4" to 1-1/2"	2-3/16	1-15/32	19/32

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.



Adapt any outlet to the next smaller size of conduit. Hex shoulder makes wrench tightening convenient. Malleable iron.

Female Reducers*

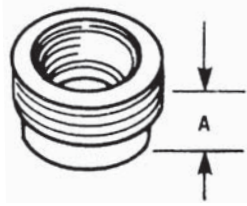


Cat. No.	Size	Dimensions (in.)		
		A	B	C
1250-TB	3/4" to 1/2"	1-1/8	5/8	3/16
1261	1" to 1/2"	1-7/16	1-7/16	3/16
1251	1" to 3/4"	1-3/8	11/16	3/16
1262	1-1/4" to 1/2"	1-13/16	21/32	3/16
1263	1-1/4" to 3/4"	1-13/16	23/32	3/16
1252	1-1/4" to 1"	1-3/4	25/32	7/32
1253	1-1/2" to 1-1/4"	2	13/16	1/4
1254	2" to 1-1/2"	2-3/8	1-3/16	9/32
1255	2-1/2" to 2"	3	1-1/4	3/8
1256	3" to 2-1/2"	3-5/8	1-1/2	1/2
1257	3-1/2" to 3"	4-1/8	1-9/16	1/2
1258	4" to 3-1/2"	4-5/8	1-3/16	1/2

For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

T&B Conduit Fittings

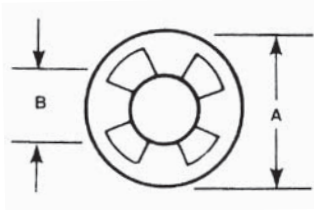
Rigid and Intermediate Metal Conduit Fittings



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 thru 606-TB, also 614 & 615.

Threaded Reducers

Stl. or M.I.	Cat. No.	Alum.	Size	Dimensions (in.)	
				A	
600-TB	600AL-TB		1/2" to 3/8"	5/8	
601-TB	601AL-TB		3/4" to 1/2"	19/32	
602-TB	602AL-TB		1" to 1/2"	19/32	
603-TB	603AL-TB		1" to 3/4"	19/32	
604-TB	604AL-TB		1-1/4" to 1/2"	19/32	
605-TB	605AL		1-1/4" to 3/4"	19/32	
606-TB	606AL		1-1/4" to 1"	11/16	
607	607AL		1-1/2" to 1/2"	15/16	
608	608AL		1-1/2" to 3/4"	15/16	
609	609AL		1-1/2" to 1"	1-3/32	
610	610AL		1-1/2" to 1-1/4"	27/32	
611-TB	611AL		2" to 1/2"	23/32	
612	612AL		2" to 3/4"	1-1/16	
613	613AL		2" to 1"	1-1/16	
614-TB	614AL		2" to 1-1/4"	1-1/16	
615-TB	615AL		2" to 1-1/2"	27/32	



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

Reducing Washers



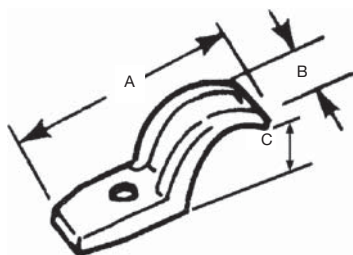
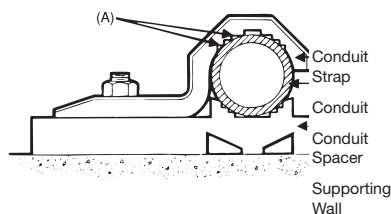
Cat. No.	Size	Dimensions (in.)	
		A	B
3700	3/4" to 3/8"	1-3/8	45/64
3701	3/4" to 1/2"	1-3/8	7/8
3702	1" to 3/8"	1-5/8	45/64
3703	1" to 1/2"	1-5/8	7/8
3704	1" to 3/4"	1-5/8	1-3/32
3705-TB	1-1/4" to 3/8"	2	45/64
3706	1-1/4" to 1/2"	2	7/8
3707	1-1/4" to 3/4"	2	1-3/32
3708	1-1/4" to 1"	2	1-23/64
3709	1-1/2" to 3/8"	2-1/4	45/64
3710	1-1/2" to 1/2"	2-1/4	7/8
3711	1-1/2" to 3/4"	2-1/4	1-3/32
3712	1-1/2" to 1"	2-1/4	1-23/64
3713	1-1/2" to 1-1/4"	2-1/4	1-23/32
3714	2" to 1/2"	2-3/4	7/8
3715-TB	2" to 3/4"	2-3/4	1-3/32
3716	2" to 1"	2-3/4	1-23/64
3717	2" to 1-1/4"	2-3/4	1-23/32
3718	2" to 1-1/2"	2-3/4	1-31/32

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



1275 Series
1276AL Series



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

Conduit Straps

(For 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**
3/8" through 6" conduit
- **1276AL Series**
1/2" through 6" conduit

Conformity

CSA C22.2 No. 18.3

ANSI C80.4

NFPA 70-2008 (ANSI)

Pipe Straps—Malleable Iron or Aluminum



Cat. No.		Size	Dimensions (in.)			Screw Size
Mal. Iron	Alum.		A	B	C	
1275 [†]	1275AL	3/8"	1-15/16"	19/32"	1/4"	1/4"
1276 [†]	1276AL [†]	1/2"	2-11/32"	23/32"	1/2"	1/4"
1277 [†]	1277AL [†]	3/4"	2-11/16"	21/32"	5/8"	1/4"
1278 [†]	1278AL [†]	1"	3-3/32"	11/16"	13/16"	1/4"
1279 [†]	1279AL [†]	1-1/4"	4-1/8"	13/16"	29/32"	5/16"
1280 [†]	1280AL	1-1/2"	4-1/2"	15/16"	1-17/32"	3/8"
1281	1281AL	2"	5-3/16"	1-1/8"	1-1/4"	7/16"
1282*	1282AL	2-1/2"	5-15/16"	1-1/2"	1-3/4"	1/2"
1283*	1283AL	3"	6-11/16"	1-5/8"	2-3/16"	1/2"
1284	1284AL	3-1/2"	7-19/32"	1-3/4"	2-3/4"	5/8"
1285*	1285AL	4"	8-5/16"	1-7/8"	2-13/16"	5/8"
1286**	1286AL**	4-1/2"	9-3/16"	1-15/16"	2-15/16"	5/8"
1287	1287AL	5"	9-15/16"	2"	3-1/4"	5/8"
1288	1288AL	6"	11-1/2"	2-7/16"	4-1/8"	5/8"

* May be used with EMT of same size.

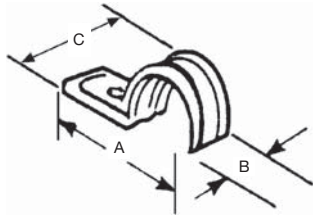
[†] Not snap on type.

U.L. not applicable.

** Not CSA Certified

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

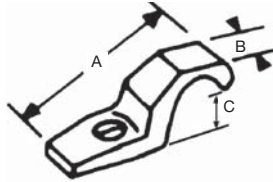


Elongated bolt hole makes alignment easy, even when holes in mounting surface are off center. Snap on features. Steel. Zinc plated

Pipe Straps—Steel

Cat. No.	Conduit Size	Dimensions (in.)			Screw Size
		A	B	C	
1210C†	3/8"	1-15/32	3/4	11/16	1/4"
1211C	1/2"	2	3/4	15/16	1/4"
1212C	3/4"	2-5/16	3/4	1"	1/4"
1213C	1"	3-13/16	3/4	1-17/64	1/4"
1214TB*	1-1/4"	2-31/32	1-9/16	1-9/16	3/8"
1215TB*	1-1/2"	3-23/32	1-13/16	1-13/16	3/8"
1216TB*	2"	4-7/16	2-5/16	2-5/16	3/8"

† Not snap on type.
U.L. 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



Cat. No.	Size	Bolt Size	Dimensions (in.)		
			A	B	C
1275CR	3/8"	1/4"	2	21/32	1/4
1276CR	1/2"	1/4"	2-13/32	25/32	1/2
1277CR	3/4"	1/4"	2-3/4	23/32	5/8
1278CR	1"	1/4"	3-5/32	3/4	13/16
1279CR	1-1/4"	3/8"	4-5/32	25/32	7/8
1280CR	1-1/2"	3/8"	4-9/16	1	1-7/32
1281CR	2"	1/2"	5-1/4	1-3/16	1-1/4

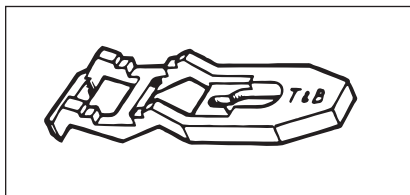
U.L. not applicable.

T&B Conduit Fittings

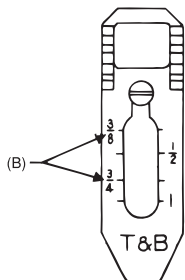
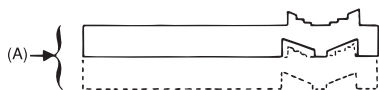
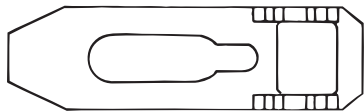
Rigid and Intermediate Metal Conduit Fittings

Conduit Spacers

(For Rigid Metal Conduit, Intermediate Metal Conduit and Electrical Metallic Tubing)



1350 Series
1350AL Series



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

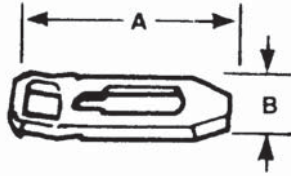
1/2" through 6" conduit

Conformity

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

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings



Used with T&B 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.

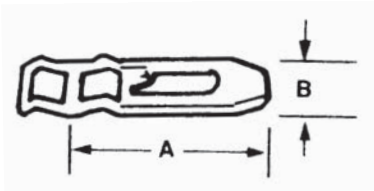
Pipe Spacers

Mat. Iron	Cat. No.		Size	Screw Size	Dimensions (in.)	
	Alum.				A	B
	1350	1350AL	3/8", 1/2", 3/4", 1"	#7	3"	7/8"
	1351	1351AL	1-1/4"-1-1/2"-2"	#12	5"	1-3/16"
	1352	1352AL	2-1/2"-3"	#12	9-9/16"	1-3/4"
	1353	1353AL	3-1/2"-4"	#14	7-9/16"	2"
	1354	1354AL	4-1/2"-5"-6"	#16	10-9/16"	2-9/16"

Conforms to CEC Rule 12-012 (5)
U.L. not applicable.



Pipe Spacers—PVC Coated



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.

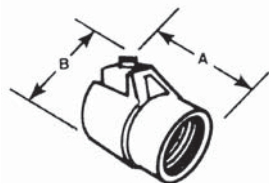
Cat. No.	Conduit Size	Screw Size	Dimensions (in.)	
			A	B
1350CR	1/2"-3/4"-1"	#7	3	7/8
1351CR	1 1/4"-1-1/2"-2"	#12	5	3/8
1352CR	2-1/2"-3"	#12	6-9/16	1-3/4
1353CR	3-1/2"-4"	#14	7-9/16	2
1354CR	4-1/2"-5"-6"	#16	10-9/16	2-9/16

U.L. not applicable.
Conforms to CEC Rule 12-012 (5)

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Tite-Bite® Combination Couplings Armoured Cable for Threaded Rigid



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.

Cat. No.	Size	Dimensions (in.)	
		A	B
440-C	1/2"	1-5/8	1-27/32
441	3/4"	1-3/4	2-1/8
442	1"	2	2-17/32



Includes bolts. Steel.

Beam Clamps Adjustable



Cat. No.	Description
700TB	Fits Flange 2-3/4"-7-3/8"
703*	Special Bolt and 3 Nuts

* Not CSA Certified



These supports will fit any flange, tapered or straight up to 5/8" thick. The broad hook holds the conduit at any desired angle. Holds standard rigid conduit, E.M.T., or I.M.C. Malleable iron.

Conduit Supports

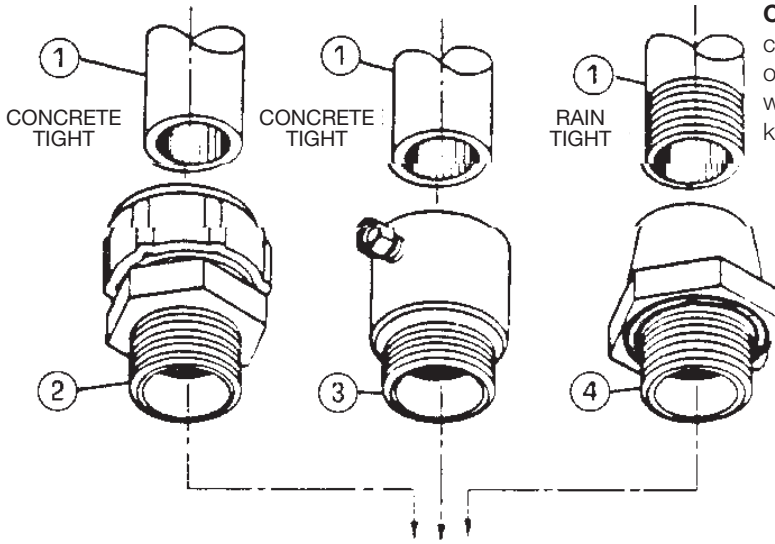


Cat. No.	Size
690TB	1/2"
691TB	3/4"
692TB	1"
693TB	1-1/4"

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Methods of Bonding and Grounding



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.

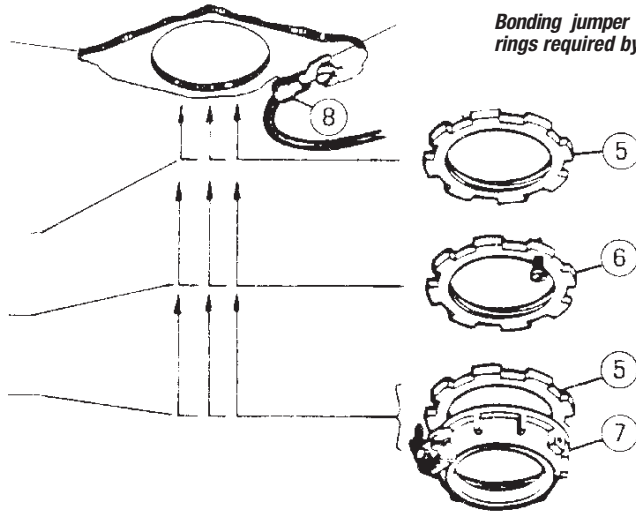
Threadless opening in a sheet metal box or enclosure.

Method of Bonding

For 120/208 volts or 120/240 volts circuits provided no unpunched rings remain around the knockout.

For under or over 250 volts circuits, service equipment and hazardous locations (where applicable) provided no unpunched rings remain around the knockout.

For under or over 250 volts circuits, service equipment and hazardous locations (where applicable) with or without unpunched rings around the knockout.



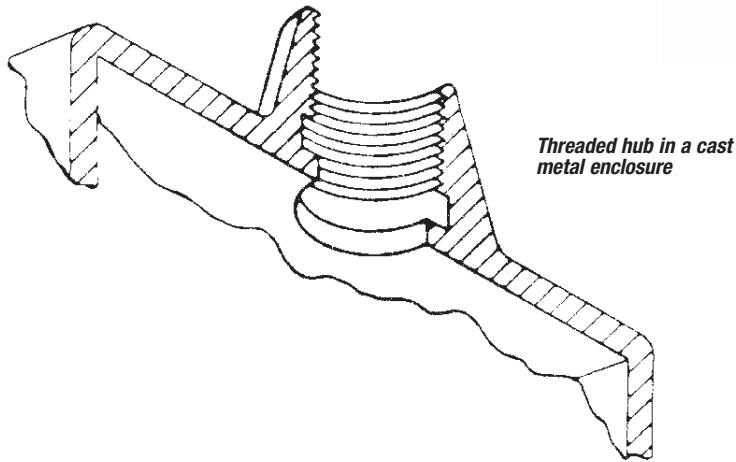
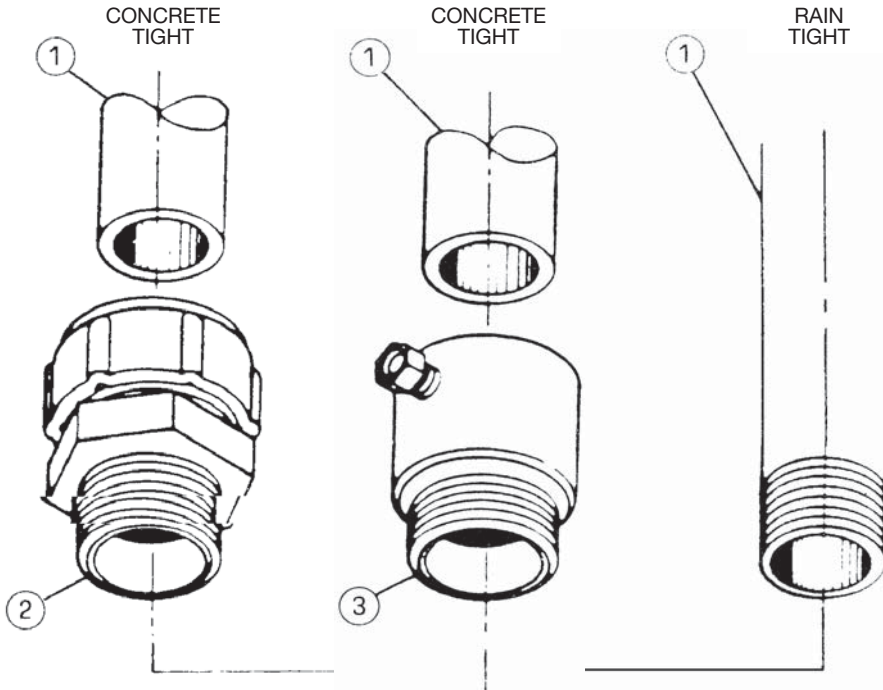
Bonding jumper around concentric or eccentric rings required by CEC Rule 10-614

- (1) Threaded or threadless rigid metal conduit or intermediate metal conduit
- (2) T&B Series 8123 or 8124 Threadless Fittings
- (3) T&B Series 8125 Set Screw Fitting
- (4) T&B Series 370 or H050-TB Sealing Hub (Bullet® Hubs)
- (5) T&B Series 140 Locknuts
- (6) T&B Series 106 Bonding Locknut
- (7) T&B Series 3870 Bonding & Grounding Bushing
- (8) T&B Sta-Kon® or Color-Keyed® lug

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Methods of Bonding and Grounding (continued)



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

Methods of Bonding

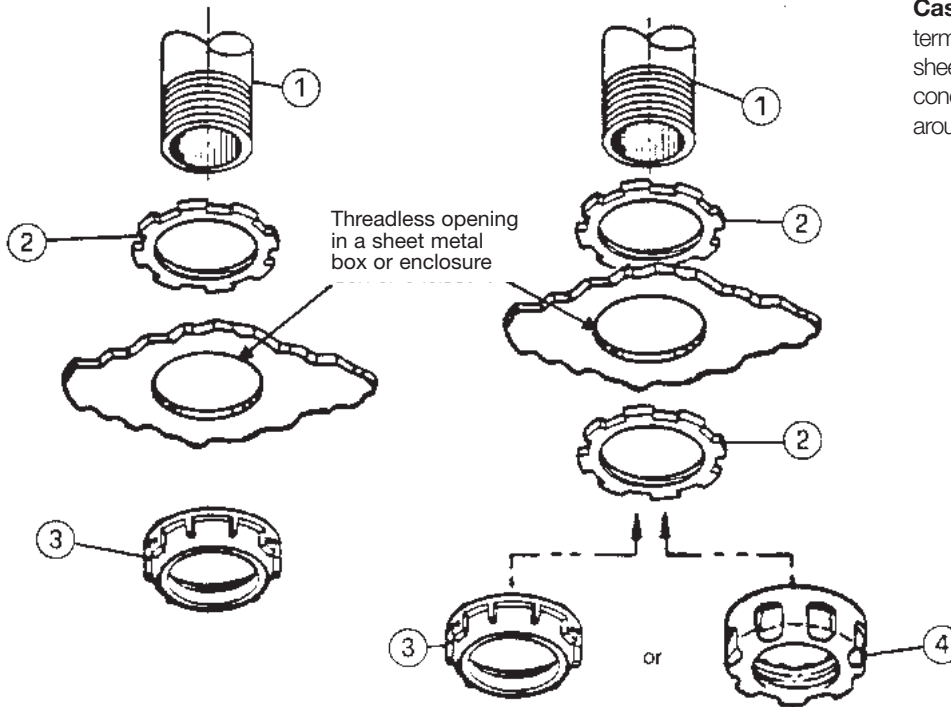
- For (1) 120/208 or 120/240 volts circuits (CEC 10-610)
 (2) Over 250 volts circuits (CEC 10-610)
 (3) Service equipment (CEC 10-604)
 (4) Hazardous Locations 18-074 (where applicable)
 18-124 (Class I, Zone 1)
 18-160 (Class I, Zone 2)
 18-218 (Class II, Division 1)
 18-268 (Class II, Division 2)
 18-316 (Class III, Division 1)
 18-366 (Class III, Division 2)

- (1) Threaded or threadless rigid metal conduit or intermediate metal conduit.
 (2) T&B Series 8123 Threadless Fitting
 (3) T&B Series 8125 Set Screw Fitting

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Methods of Bonding and Grounding (continued)



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 volts circuits (other than service equipment).

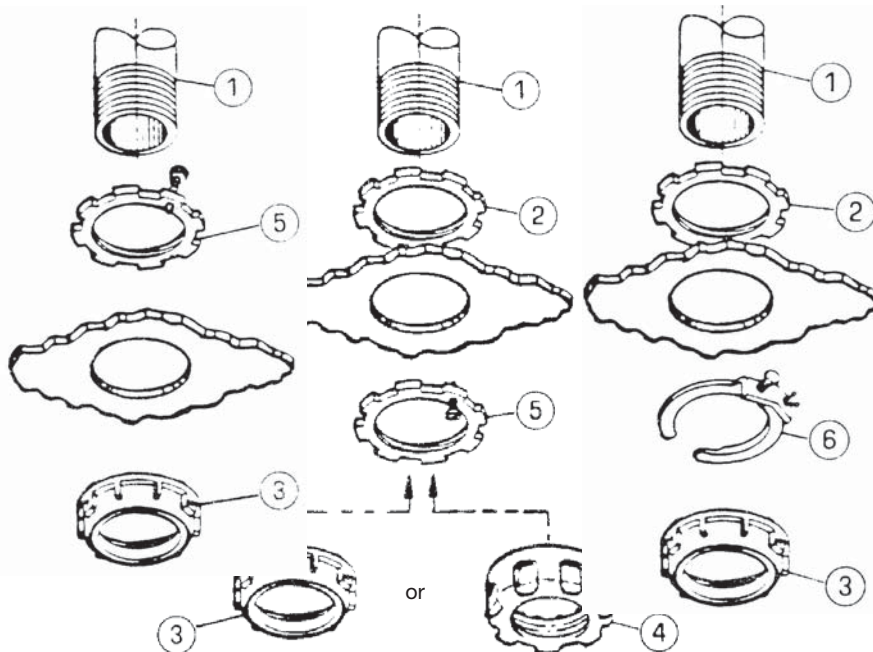
Method of bonding for over 250 volts circuits e.g. 600/347 volt systems and those operating over 600 volts (other than service equipment).

Note: Any of the bonding methods described for service equipment may also be used.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Methods of Bonding and Grounding (continued)



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.

- (1) Threaded rigid metal conduit or intermediate metal conduit
- (2) T&B Series 142 Locknuts
- (3) T&B Series 122 Bushing Metallic
- (4) T&B Series 222 Bushing Plastic
- (5) T&B Series 106 Bonding Locknut
- (6) T&B Series 3650 Bonding Wedge

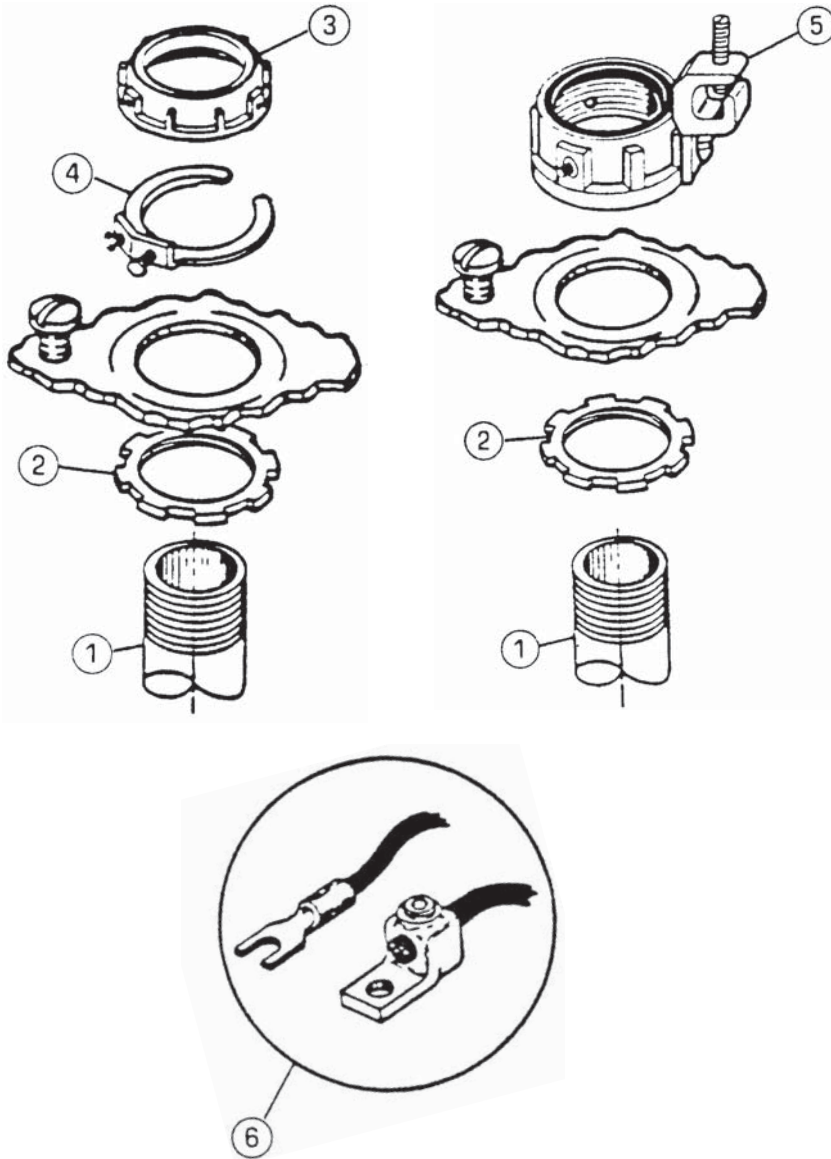
Method of Bonding

- For (i) Over 250-volts circuit e.g. 347/600-volts systems and those operating over 600 volts
 (ii) Service equipment
 (iii) Hazardous locations where applicable

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Methods of Bonding and Grounding (continued)



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

- (1) Threaded rigid metal conduit or intermediate metal conduit
- (2) T&B Series 142 Locknuts
- (3) T&B Series 122 Bushing, Metallic
- (4) T&B Series 3650 Bonding Wedge
- (5) T&B Series 3870 Bonding & Grounding Bushing
- (6) T&B Typical Mechanical or Pressure Type Fitting

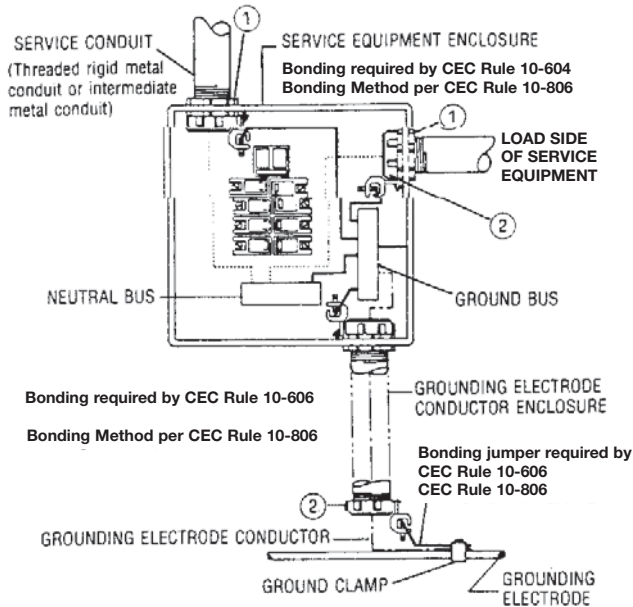
Note: For raintight applications, a sealing ring, T&B Series 5302, may be used between outside of box or enclosure and the outside locknut.

T&B Conduit Fittings

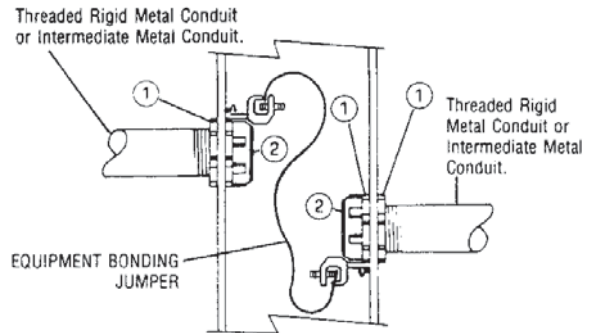
Rigid and Intermediate Metal Conduit Fittings

Methods of Bonding and Grounding (continued) — Typical Installation Using Bonding and Grounding Bushings

**Bonding Service Equipment
(CEC Rule 10-604)**

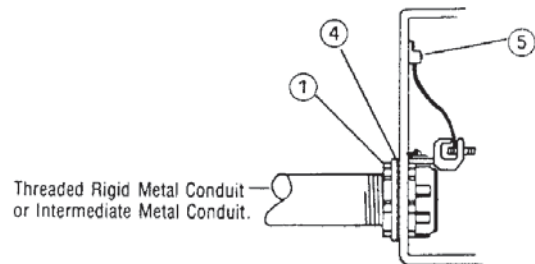
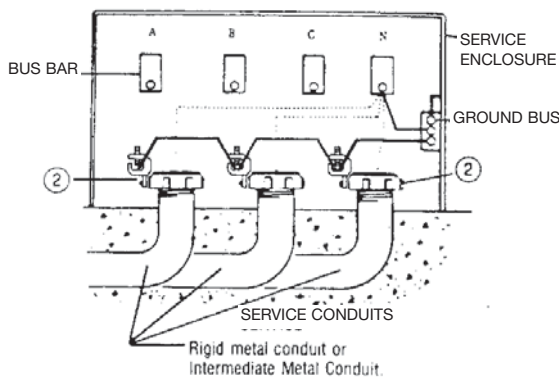


**Install Bonding Jumper to Assure Electrical Continuity
Between Isolated Sections of Raceways (CEC Rule 10-614)**



- (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]

**Multiple Bonding of Service Raceways Where
Service Entrance Conductors are Paralleled in
Two or More Raceways, CEC Rule 10-614**



- 1 T&B Series 142 Locknut
- 2 T&B Series 3870 Bonding & Grounding Bushing (Threaded)
- 3 T&B Series 5262 Sealing "O" Ring
- 4 T&B Typical Bolted or Pressure Lug

Suggested Specifications

Insulated grounding and bonding bushing (Series 3870)

Where code requires bonding and grounding of single or multiple metal conduits, 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 Thomas & Betts.

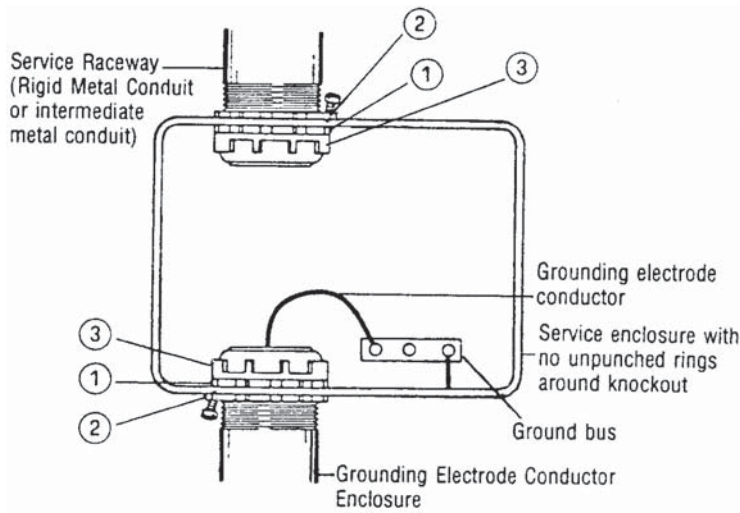
Grounding and bonding bushings used shall be approved for the purpose and

- (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-O. Insulator must be positively locked in place.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Methods of Bonding and Grounding (continued)— Typical Installation Using Thomas & Betts Bonding locknut



- (1) T&B Series 142 Locknut
- (2) T&B Series 106 Bonding Locknuts
- (3) T&B Series 122 Bushing

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)

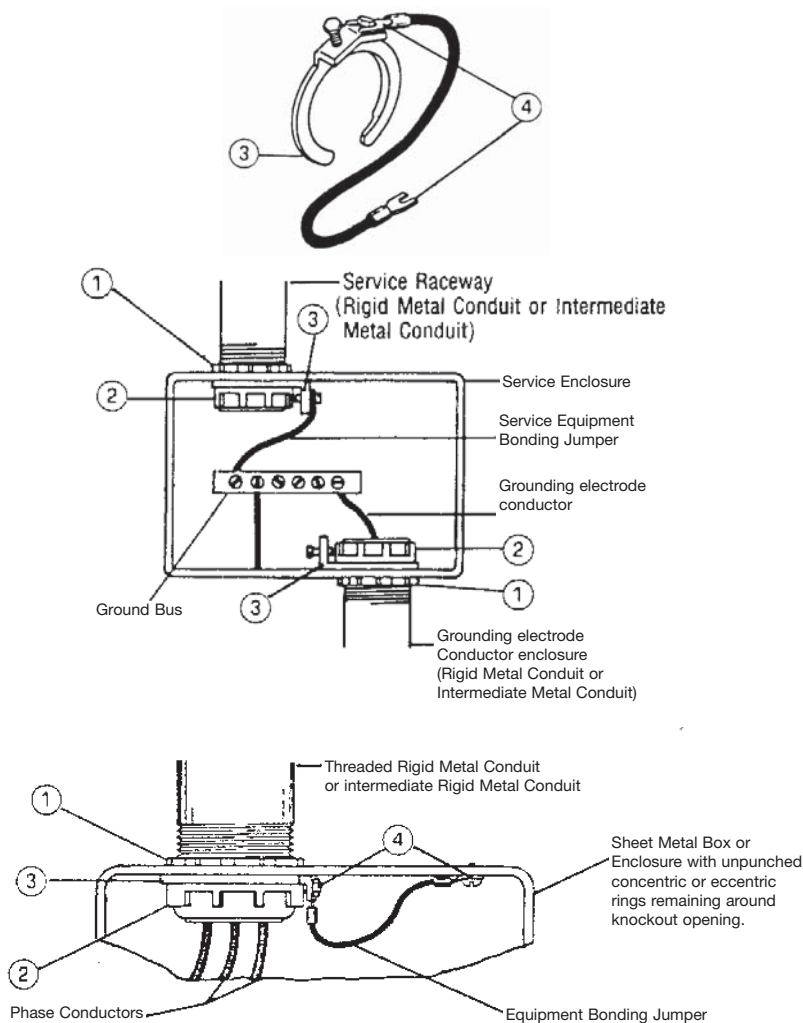
Where drawings indicate installation of a bonding type locknut to effectively bond a terminating fitting or metal conduit to a cabinet, box, enclosure or an auxiliary gutter, the locknuts installed shall be of hardened steel/malleable iron construction, electro-zinc plated, such as Series 106 manufactured by Thomas & Betts.

T&B Conduit Fittings

Rigid and Intermediate Metal Conduit Fittings

Methods of Bonding and Grounding (continued)— Typical Installations Using Thomas & Betts Bonding and Grounding Wedge

**T&B Series 3651
Bonding & Grounding Wedge**



- (1) T&B Series 142 Locknut
- (2) T&B Series 122 Metallic Bushing
- (3) T&B Series 3651 Bonding & Grounding Wedge
- (4) T&B Pressure (crimp type) Terminal Lug.

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 Thomas & Betts—Series 3650.

Bonding and Grounding Wedge shall be of rugged bronze/tin plated or steel/electro-zinc plated.