In This Section...

T&B® Fittings

Thomas&Betts

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Canada
Tel: 450.347.5318
Fax: 450.347.1976

Technical Services
Tel: 888.862.3289

www.tnb.com

Overview

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 customer specials to solve particular installation and performance problems. You can benefit from their experience.

Approvals and Listings

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 that meet the requirements of the National Electrical Code® as well as the listing requirements of the Underwriter's Laboratories and the Canadian Standards Association. You can use Thomas & Betts Fittings with confidence.

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

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

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DURA-PLATE® Finish — Corrosion-Resistant Finish Protects Fittings in Harsh Environments

DURA-PLATE® Corrosion-Resistant Fittings have a T&B plating process that provides excellent corrosion resistance on threaded steel and malleable iron fittings for use in harsh environments.

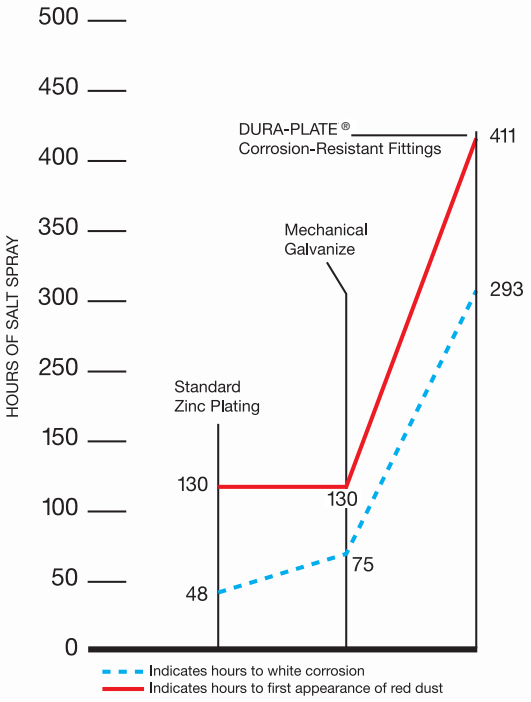
DURA-PLATE® Corrosion-Resistant Fittings utilize an electro-plating process that ensures a uniform thickness of protective material over the entire part. Conventional hot dip coatings deposit an uncontrolled buildup of material on the part, especially in threaded areas. This excess buildup must be removed to enable mating parts to function.

The process of removing this buildup in the threads in turn damages the coating and compromises the effectiveness of the protection.

An additional drawback of hot dip coating is that the lower ductility of the alloyed interface layer that is formed during the hot dip process can cause spalling if the item is deformed after coating.

In addition to the uniformity of the coating, the distinctive gold color of the plating enables immediate recognition that the part has been prepared for exposure to harsh environments and confirms the extra protection by visual inspection.

DURA-PLATE® Corrosion-Resistant Fittings have been subjected to salt spray tests conducted according to ASTM Specification B-117. The results of Corrosion-Resistant Fittings tests, along with galvanized parts, appears below:



Ordering Information

- Add the prefix “040-” to the standard catalog number — for example: a 5332 with DURA-PLATE® Corrosion-Resistant Fittings protection would be ordered as “040-5332”.
- Check for catalog numbers in stock
- Allow 6–8 weeks for delivery on nonstock items
- Add 20% to price of standard item
- Minimum order is standard package quantity

Rigid and Intermediate Metal Conduit Fittings

Locknuts

140 Series
141AL Series

106 Series

Application

- To connect externally threaded conduit or connector to a threadless opening in a box or enclosure
- To effectively bond conduit or connector 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

⅜" thru 2" steel (hardened) 2½" thru 6"
Malleable Iron
All screws steel

141AL Series

All copper-free aluminum

Standard Finish

All steel and malleable iron locknuts, including electro zinc-plated bonding screws and chromate coated all-aluminum locknut, degreased

Range

⅜" through 6" conduit (All threads straight pipe [NPS]) (140 Series)
½" through 4" conduit (106 Series & 141AL Series)

Listed/Certified by

UL (UL File No. E-23018)
CSA [catalog numbers 108, 109, 110 and 111. All 140 Series except catalog number 140.] (LR-2884, LR-4484)

Conforms to

UL 514B
CSA C22.2 No. 18
NEMA FB1
NFPA 70
Federal Specification replaced by A-A-50553
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 paint into 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.

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Rigid and Intermediate Metal Conduit Fittings

Available in your choice of steel/malleable iron or aluminum.

Locknuts

- Steel from ¼" to 2" and malleable iron from 2½" to 6"
- Aluminum 624 in all sizes

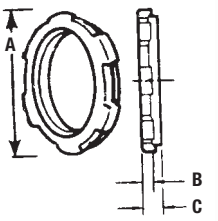
CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B
106†	½	1⅜	.125
107†	¾	1⅝	.140
108	1	1 15/16	.170
109	1¼	2 5/32	.170
110	1½	2½	.170
111	2	3	.187
112†	2½	3 13/32	.375
113†	3	4 13/16	.375
114†	3½	4 29/32	.438
115†	4	5 7/32	.438

† *Not CSA certified.*
Available with DURA-PLATE® Finish.

UL File No. E-3060
CSA File No. 638

Provides positive seal against water and oil.

Sealing Locknuts



Molded Santoprene Seal
Color: Blue

- For use with rigid and intermediate metal conduits or fittings
- Provides watertight or raintight seal at all enclosures

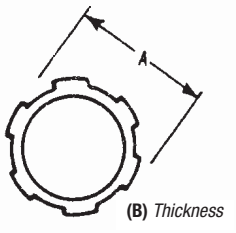
CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C
141SL	½	1.140	⅛	¼
142SL	¾	1.420	5/32	9/32
143SL	1	1.770	11/64	9/32
144SL	1¼	2.281	11/64	5/16
145SL	1½	2.598	11/64	9/32
146SL	2	3.175	3/16	7/64

UL File No. E-23018
CSA File No. 2884

Ensures positive bonding of conduit to box and prevents loosening due to vibration!

Bonding Locknuts

- Steel or malleable iron (steel through 2")
- Can be used anywhere an ordinary locknut is installed
- Also can be used for Service Entrance applications in conformance with code
- T&B rigid conduit and EMT (thinwall) fittings comply with Federal Specification A-A-50553



CAT. NO. STL. OR M.I.	CAT. NO. ALUM.	SIZE (IN.)	DIMENSIONS (IN.) A	B
139*	—	¼	¾	9/64
140*	—	⅜	15/16	9/64
141**	141AL	½	1 7/64	5/32
142**	142AL	¾	1⅜	3/16
143	143AL	1	1 11/16	13/64
144	144AL	1¼	2 5/32	13/64
145	145AL	1½	2½	13/64
146	146AL	2	3	7/32
147	147AL	2½	3 3/16	13/32
148	148AL	3	4 3/16	13/32
149	149AL	3½	4 13/16	15/32
150	150AL	4	5 5/16	15/32
151	151AL	4½	5 15/16	17/32
152	152AL	5	6½	17/32
153	153AL	6	7¾	19/32

**Hex shape*

***Case hardened locknuts*

Aluminum locknuts comply with federal standard of copper-free aluminum; less than .5% copper.

Available with DURA-PLATE® Finish.

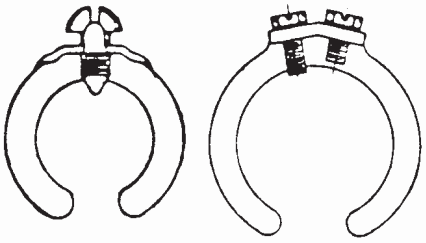
UL File E-23018

CSA File No. 2884

Rigid and Intermediate Metal Conduit Fittings

Perfect for grounding old work or new!

Bonding & Grounding Wedges



Series 3650 *Series 3651*

- Provides grounding without a jumper except in concentric knockouts
- When jumper is required, it fits under set screw in grounding wedge
- Update existing installations to meet code requirements for bonding (NEC Sect. 250-72e) without disconnecting wiring
- For use on new wiring, just loosen bushing, position wedge and tighten bushing and bonding screw

Application

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

Features

- Sizes ¾" 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

½" size Steel/Electro Zinc Plated

¾" thru 6" size Bronze/Tin Plated

Range

½" thru 6" conduit

Listed/Certified by

UL File #E3060

CSA File #638

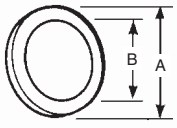
Conforms to

UL 467
CSA C22.2 No. 41
NFPA-70
Federal Specification A-A-50552

Grounding Wedges

CAT. NO.	SIZE
3650	½"
3651	¾"
3652	1"
3653	1¼"
3654	1½"
3655	2"
3656	2½"
3657	3"
3658	3½"
3659	4"
3661	5"
3662	6"

UL File No. E-3060



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	DIMENSIONS (IN.) B ± 1/64
5302	½"	1 11/64	¾
5303	¾"	1½	15/16
5304	1"	1¾	1 11/64
5305	1¼"	2 9/64	1½
5306	1½"	2&	1¾
5307	2"	2 59/64	2 15/64
5308	2½"	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 & 13 *UL File No. E-13938* *CSA File No. 2884*

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Rigid and Intermediate Metal Conduit Fittings

Blackjack® — Grounding Bushing

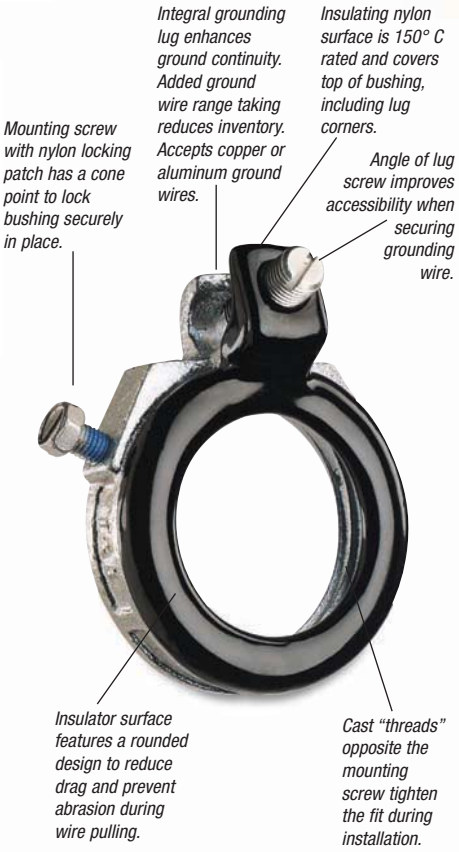
Innovative design makes installation quicker, easier.

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's designed not to fall off or get lost.



Innovative design improves performance.

The Blackjack® bushing provides superior ground continuity.

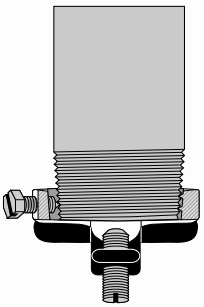
The design of the Blackjack bushing has an integral, cast-on grounding lug for better ground continuity. This means that the Blackjack bushing stands up to intense loads.

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.

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.



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: (½"–2") Stainless Steel, (2½"–6") Brass

Lug Screw: Stainless Steel

Finish: Zinc Plated or Mechanical Galvanized

Range

Conduit: ½" thru 6" threaded or threadless rigid/IMC

Wire Range: #14 AWG to 4/0 AWG CU/AL

Listed/Certified by

UL File #E3060

CSA File #LR2884

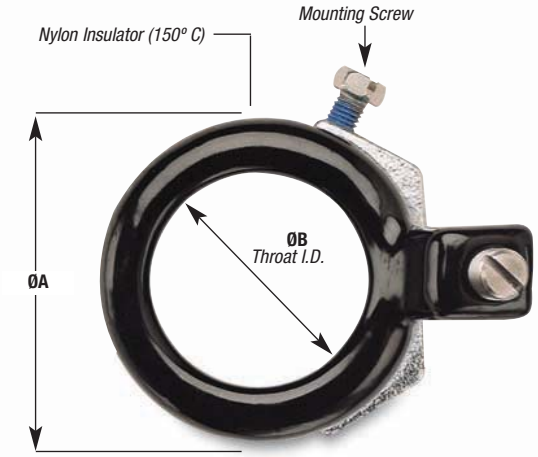
Conforms to

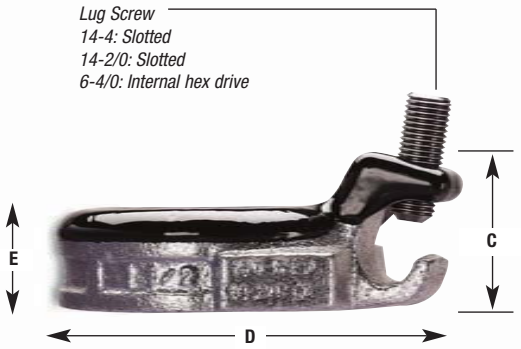
UL 514B & U.L. 467

CSA C22.2 No. 18 & CSA C22.2 No. 41

Rigid and Intermediate Metal Conduit Fittings

Blackjack® Grounding Bushing Technical Information





For Threaded and Threadless Rigid and IMC Conduit

CAT. NO. ZINC PLATED MALLEABLE IRON	CAT. NO. ALUMINUM	CONDUIT SIZE	ØA MAX.	ØB MIN. THROAT I.D.	C MAX.	D MAX.	E MAX.	WIRE RANGE
BG050-14-20	BGA050-14-20	½"	1.251	.569	1.181	2.134	.696	14-2/0
BG050-14-4	BGA050-14-4	½"	1.251	.569	1.027	1.940	.696	14-4
BG075-14-20	BGA075-14-20	¾"	1.533	.772	1.221	2.414	.696	14-2/0
BG075-14-4	BGA075-14-4	¾"	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	1¼"	2.220	1.319	1.181	2.987	.759	14-2/0
BG150-14-20	BGA150-14-20	1½"	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	2½"	3.418	2.412	1.181	4.341	.978	14-2/0
BG250-6-40	BGA250-6-40	2½"	3.418	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	3½"	4.542	3.491	1.181	5.467	.978	14-2/0
BG350-6-40	BGA350-6-40	3½"	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	BGA600-6-40	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.

Please consult factory for mechanically galvanized.

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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

Features

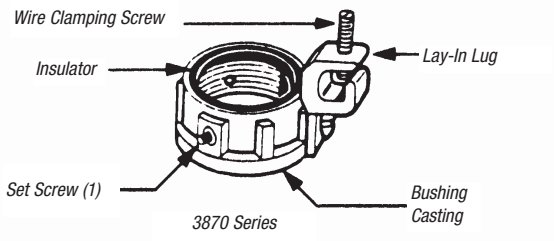
- Ease of installation, lay in lug design
- Cast malleable iron body designed to lock insulator in place within body, reducing common assembly problem resulting in dislodging of insulator
- Insulator rated for 150° C/302° F application
- Look for the unique T&B blue color, ensuring the highest quality fitting

Standard Material/Finish

Body: Electro zinc plated

Lay-In Lug: Aluminum/tin plated

Insulator: Thermoplastic 150° C/302° F Application with 94V-0 flammability



3870 Series

CAT. NO.	CONDUIT SIZE	BUSHING DIA.	THROAT DIA.	LUG LENGTH	SWING RADIUS	BUSHING HEIGHT	WIRE RANGE AWG CU/AL
3870-TB	½"	1.125	.560	1.310	1.212	.657	14-4
3861	½"	1.125	.560	1.675	1.402	.657	8-2/0
3871-TB	¾"	1.420	.742	1.310	1.360	.660	14-4
3862	¾"	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	1¼"	2.190	1.242	1.310	1.745	.735	14-4
3883	1¼"	2.190	1.242	1.675	1.935	.735	8-2/0
3874	1½"	2.468	1.449	1.310	1.884	.770	14-4
3884	1½"	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	2½"	3.516	2.222	1.310	2.408	.940	14-4
3886	2½"	3.516	2.222	1.675	2.598	.940	8-2/0
3993	2½"	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	3½"	4.781	3.193	1.310	3.040	.975	14-4
3863	3½"	4.781	3.193	1.675	3.230	.975	8-2/0
3995	3½"	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

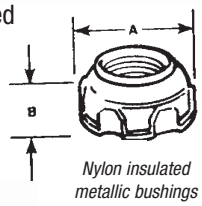
Available with DURA-PLATE® Finish.

Rigid and Intermediate Metal Conduit Fittings

Meets and surpasses NEC® requirements!

Insulated Throat Fittings

- Steel or malleable iron (steel through 1½")
- Exceeds NEC 373-6C requirements for protection of ungrounded connectors at entrance to raceways, pull boxes and junctions
- Recognizable by distinctive trademarked blue insulating liner in throat
- Reduces wire pulling effort by as much as 50%
- Temperature rating of 105° C
- Look for the unique T&B blue color, ensuring the highest quality fitting



Nylon insulated metallic bushings

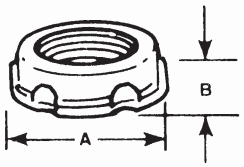
CAT. NO.			DIMENSIONS (IN.)	
STL. OR M.I.	ALUM.	SIZE	A	B
1222	1222AL	½"	1 1/32	29/64
1223	1223AL	¾"	1 9/32	31/64
1224	1224AL	1"	1 19/32	11/32
1225	1225AL	1¼"	1 15/16	21/32
1226	1226AL	1½"	2 3/16	23/32
1227	1227AL	2"	2 11/16	7/8
1228	1228AL	2½"	3 3/16	1/32
1229	1229AL	3"	3 27/32	5/16
1230	1230AL	3½"	4 7/16	1 1/16
1231	1231AL	4"	4 7/8	1 3/32
1232†	1232AL†	4½"	—	—
586	586AL	5"	5 31/32	1 9/32
587	587AL	6"	7 3/16	1 11/32

† *Not CSA Certified*

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

Locknut-type base improves bonding and resists loosening under vibration.

Metallic Bushings



- Aluminum, steel or malleable iron (steel through 1½")
- Smoothly rounded shoulder covers end of conduit
- Broad flange covers knockout hole
- High ribs for easy tightening with fingers or with wrench
- ½" to 1½" sizes, formed in steel, feature extra-smooth shoulders

CAT. NO.			DIMENSIONS (IN.)	
STL. OR M.I.	ALUM.	SIZE	A	B
122	122AL	½"	1 1/32	13/32
123	123AL*	¾"	1 1/4	7/16
124	124AL**	1"	1 5/16	1/2
125-TB	125AL	1¼"	1 29/32	9/16
126	126AL	1½"	2 5/32	19/32
127	127AL	2"	2 21/32	5/8
128	128AL	2½"	3 3/16	3/4
129	129AL	3"	3 27/32	13/16
130-TB	130AL	3½"	4 3/8	15/16
131-TB	131AL	4"	4 15/16	1
132-TB	—	4½"	5 1/16	1 5/64
133-TB	133AL	5"	6	1 3/16
134-TB	134AL	6"	7 1/4	1 1/4

* *Not UL Listed or CSA Certified*

** *Not CSA Certified*

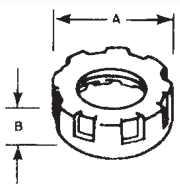
Available with DURA-PLATE® Finish.

UL File No. E-23018

CSA File No. 2884

Perfect threads for easy thread-on!

Plastic Insulating Bushings



All Plastic Insulating Bushings

- Impact-resistant plastic insulation
- Ribbed for easy, secure gripping
- UL Listed 105° C

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B
222-TB	½"	1 1/16	3/8
223-TB	¾"	1 9/32	13/32
224	1"	1 5/16	9/16
225-TB	1¼"	1 29/32	9/16
226	1½"	2 7/32	9/16
227	2"	2 25/32	5/8
228-TB	2½"	3 3/8	3/4
229-TB	3"	4 1/16	3/4
230-TB	3½"	4 5/8	7/8
231	4"	5 1/8	7/8
232	4½"	5 11/16	1
233	5"	6 5/16	1
234	6"	7 1/16	1

UL Rated flame retardant 94V-1

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Rigid and Intermediate Metal Conduit Fittings

For threadless rigid conduit and intermediate metal conduit.

Insulating Bushing

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 constructio

Standard Material

High-impact thermoplastic listed for 105° C (221° F) application

Flammability Classification 94 V-1

Standard Finish

As molded

Range

½" through 4" conduit

Listed by

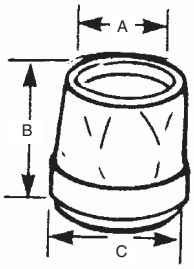
UL (UL File No. E-13938)

CSA (LR-2884, LR-4484)

Conforms to

UL 514B

NFPA 70

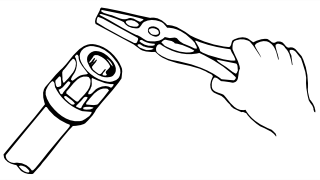


TRIB-75

TRIB-100

TRIB-150

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 electrician's 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.



CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C
TRIB-50	½"	19/32	1 9/32	1 1/16
TRIB-75	¾"	25/32	1 25/64	1 1/4
TRIB-100	1"	1	1 1/2	1 3/16
TRIB-125	1¼	1 5/16	1 5/8	1 59/64
TRIB-150	1½"	1 17/32	1 21/32	2 11/64
TRIB-200	2"	1 31/32	1 13/16	2 11/16
TRIB-250	2½"	2 23/64	2	3¼
TRIB-300	3"	2 59/64	2 1/32	3 39/32
TRIB-350	3½"	3⅜	2 5/16	4 29/64
TRIB-400	4"	3 27/32	2 13/32	5

I.M.C. sizes ½" thru 4"

UL Rated flame retardant 94V-1

UL File No. E-13938

CSA File No. 2884

Rigid and Intermediate Metal Conduit Fittings

Knockout Bushing

3210 Series

Provides smooth, rounded insulation surface for easy wire pulling!

- Quickly snaps into outlet box, switch box or other enclosure left vacant by wiring modifications or maintenance changes
- High-impact thermoplastic, one-piece construction
- Easily installed by hand
- UL Listed 105° C

Application

- To bush knockout openings in metal boxes or enclosures

Features

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

Standard Material

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

Standard Finish

As molded

Range

.875" through 2.469" nominal diameter knockout opening (½" through 2" trade size knockouts)

Wall thickness of box or enclosure

.095" max. up to 1" trade size

.140" max. 1¼" through 2" trade size

Listed/Certified by

UL (UL File No. E-3803)

CSA (LR-589,LR-4484)

Conforms to

UL 514B

CSA C22.2 No. 18

NFPA 70-1999 (ANSI)

CAT. NO.	FOR USE IN KO SIZE*	DIMENSION (IN.) B
3210	.875	.360
3211	1.109	.360
3212	1.375	.360
3213	1.734	.400
3214	1.984	.520
3215	2.469	.520

** Per UL and NEMA standards. Refer to "Knockout Plugs" table on **next page**.*

Oxygen index >28° *UL 94V-1*

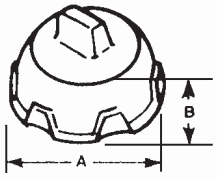
UL File No. E-3803 *CSA File No. 589*

Makes a workman-like seal against grit, plaster and mischief!

Capped Bushings

Capped Bushings

- Removable with pliers
- ½" through 1¼" sizes in steel
- 1½" and 2" sizes in malleable iron



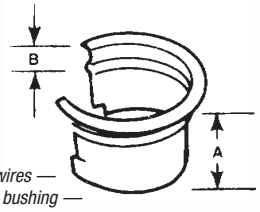
CAT. NO.	SIZE	DIMENSION (IN.) A	B
1460	½"	1 1/32	13/32
1461	¾"	1¼	7/16
1462	1"	1 9/16	½
1463	1¼"	1 29/32	9/16
1464	1½"	2 5/32	19/32
1465	2"	2 21/32	⅝

UL File No. E-23018 *CSA File No. 2884*

Snaps into a regular bushing to make a UL Listed insulated bushing!

INSULINER® Sleeves

- Converts ordinary bushing to code-approved insulated bushing without disturbing wiring
- For use with standard rigid conduit, EMT (thinwall conduit) or any standard bushed outlet
- Especially suited for use with flexible metallic conduit
- High-dielectric nylon material, rated 105° C



Slip over wires — insert into bushing — snaps into place

CAT. NO.	SIZE	DIMENSION (IN.) A	B
422	½"	⅝	.025
423	¾"	11/16	.025
424	1"	⅞	.025
425	1¼"	1	.030
426	1½"	1	.030
427	2"	1⅛	.030
428	2½"	1¼	.040
429	3"	1½	.040
430	3½"	1 25/32	.055
431	4"	2 1/32	.055
433	5"	2½	.070
434	6"	2½	.070

Oxygen index >28° *UL File No. E-23018* *CSA File No. 589*

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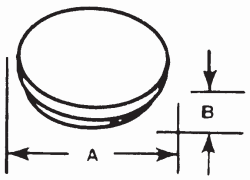
Rigid and Intermediate Metal Conduit Fittings

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

Knockout Plugs

1451 Series



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

Application

- To plug unused knockout openings in a box or enclosure

Features

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

Standard Material

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

Standard Finish

As molded

Range

.875" through 2.469" Nominal Diameter

Knockout opening (½" through 2" trade size knockouts)

Wall thickness of box or enclosure

.095" max. up to 1" trade size

.140" max. through 2" trade size.

Listed/Certified by

UL (UL File No. E13938)

CSA (LR589)

Conforms to

UL 514B

NFPA 70

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B
1451	½"	1.060	.400
1452	¾"	1.300	.400
1453	1"	1.590	.400
1454	1¼"	1.860	.450
1455	1½"	2.240	.570
1456	2"	2.740	.570

Wall thickness of electrical box .095 max.
Meets Coast Guard Regulation CB293.
UL File No. E-13938 CSA File No. 4484

Eliminates need for separate capped bushing or steel penny and bushing!

Plug, Conduit, Connectors (Push-Penny® Plugs)

Application

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

Features

- Wide range of applications; can be used with rigid metal conduit, intermediate metal conduit, electrical metallic tubing, all connnectors and all bushings
- Designed to stand up to normal handling and is functionally unaffected by moisture
- Economically seal out grout and plaster from any fitting or raceway conforming to CSA dimensional tolerances
- Just push into place
- Pressure holds plug fast against internal surface of fitting or raceway
- Made of flexible plastic

Standard Material

Polyethylene

Standard Finish

As molded

Listed/Certified by

CSA (LR2884, LR4484)

Conforms to

UL 514B
CSA C22.2 No. 18
NFPA 70
NEMA FB1

CAT. NO.	SIZE
1470	½"
1471	¾"
1472	1"
1473	1¼"
1474	1½"
1475	2"
1476*	2½"
1477*	3"
1478*	3½"
1479*	4"

**Not CSA Certified.*
CSA File No. 2884
UL not applicable.

Made to fit any bushing!

Pennies — Steel

- Used under a bushing to seal end of conduit during construction
- Completely salvageable

CAT. NO.	SIZE
815-TB	½"
816	¾"
817	1"
818	1¼"
819	1½"
820	2"

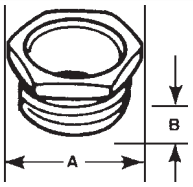
CAT. NO.	SIZE
821	2½"
822	3"
824	3½"
823	4"

UL not applicable.
CSA File No. 2884

Rigid and Intermediate Metal Conduit Fittings

Bush holes in metal boxes or enclosures!

CHASE® Nipples



- ⅜" and ½" sizes in steel
- ¾" to 6" sizes in malleable iron
- ½" to 6" sizes in copper-free aluminum

CAT. NO. STL. OR M.I.	CAT. NO. ALUM.	SIZE	DIMENSIONS (IN.) A	DIMENSIONS (IN.) B
841TB	—	⅜"	15/16	7/16
842TB	842ALTB†	½"	1 9/16	43/64
843TB	843ALTB	¾"	1⅜	19/32
844	844AL†	1"	1 11/16	3/64
845	845AL†	1¼"	2 1/32	25/32
846	846AL	1½"	2⅜	13/16
847	847AL	2"	2 15/16	31/32
848	848AL	2½"	3 5/16	1 1/16
849	849AL	3"	4⅜	1¼
850	850AL	3½"	5⅛	1 5/16
851	851AL	4"	5⅛	1 5/16
853	853AL	5"	6½	1 5/16
854	854AL	6"	7⅝	1⅜

† *Not UL Listed*

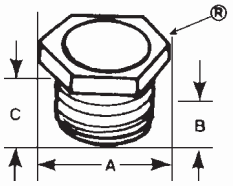
Available with DURA-PLATE® Finish.

UL File No. E-23018

CSA File No. 2884

Nylon insulator offers extra protection!

CHASE® Nipples — Nylon-Insulated



- ⅜" and ½" sizes in steel
- ¾" to 6" sizes in malleable iron
- ½" to 6" sizes in copper-free aluminum
- Look for the unique T&B blue color ensuring the highest quality fitting available

CAT. NO.	SIZE	DIMENSIONS (IN.) A	DIMENSIONS (IN.) B	DIMENSIONS (IN.) C
1942	½"	1 9/64	7/16	19/32
1943	¾"	1⅜	17/32	23/32
1944	1"	1 11/16	21/32	⅞
1945	1¼"	2 1/32	25/32	1 1/32
1946	1½"	2⅜	13/16	1 3/32
1947	2"	2 15/16	31/32	1 11/32
1948	2½"	3 5/16	1 1/16	1 7/16
1949	3"	4⅜	1i	1 19/32
1950	3½"	5⅛	1 5/16	1 25/32
1951	4"	5⅛	1 5/16	1 13/16
1953	5"	6⅜	1 5/16	1 13/16
1954	6"	7⅝	1⅜	1⅞

UL File No. E-23018

CSA File No. 2884

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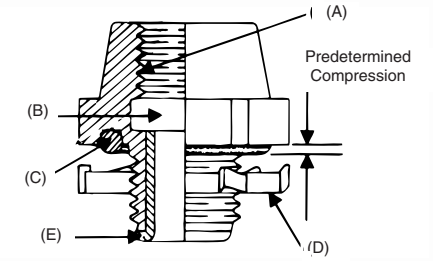
Rigid and Intermediate Metal Conduit Fittings

For Threaded Rigid Metal Conduit/IMC/PVC Coated Rigid Metal Conduit.

Threaded Hubs (Bullet® Hubs)



370 Series
370AL Series

Application

- To connect threaded metal conduit (ferrous rigid/non-ferrous rigid/ PVC coated/or intermediate metal) to a threadless opening in a box or enclosure in outdoors 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 water-tight/dust-tight union (A)
- Threads relieved to prevent bottoming of conduit, ensuring sound assembly (B)
- Recessed sealing ring at box end; sealing ring captivated (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, insulates conductors, prevents abrasion and thinning of conductor insulation, reduces wire pull effort (E)
- Suitable for hazardous location use per following:
  - (i) Class I Division 2, Class II Division 1 & 2, Class III Division 1 & 2 per NEC 501-4 (b); 502-4 (a) and 503-3 (a)
  - (ii) Class II Groups E, F, G, & Class III locations per CEC 18-202; 18-252; 18-302; 18-352
- PVC coated 485 Series
  - (i) Protects connector from extremely corrosive surroundings without affecting integrity of electrical grounding path (F)
  - (ii) Provided with overlapping sleeve for additional seal (G)

National Electrical Code® states that, "Where practical, dissimilar metals in contact anywhere in the system shall be avoided to eliminate the possibility of galvanic action." The only exceptions, aluminum fittings and enclosures, are permitted to be used with steel conduit.

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.

Standard Material

	370-485 Series	370AL
Body:	½" thru 1" Steel	All Copper-Free Aluminum
	1¼" thru 6" Malleable Iron	
Locknut:	½" thru 2" Steel (hardened)	½" thru 2" Steel (hardened)
	2½" thru 6" Malleable Iron	2½" thru 4" Copper-Free Aluminum
Screws:	Steel (hardened)	
O-Ring:	Buna N	
Insulator:	Nylon	
Coating:	PVC	

Standard Finish

	370 Series	370AL Series	485 Series
Hub;	Electro Zinc Plated Chromate Coated	As Cast	PVC — Outside Electro Zinc Plated Chromate Coated Inside

Locknuts: All Ferrous Locknuts Electro Zinc Plated and Chromate Coated

Screws: All Electro Zinc Plated and Chromate Coated

Range:

370 Series ½" thru 6" Conduit

370AL & 485 Series ½" thru 4" Conduit

All hub threads — straight pipe

All female threads — taper pipe (NPT)

Listed/Certified by

UL (UL File No: E-23018)

CSA (LR-637, LR-23086)

Conforms to

UL 514B

CSA C22.2 No. 18

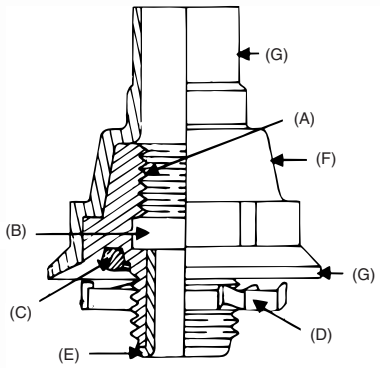
NFPA 70

NEMA FB-1

JIC EGP1; JIC EMP 1

Federal Specification A-A-50553

Federal Standard H-28 (Threads)

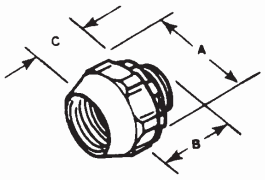


485 Series

Rigid and Intermediate Metal Conduit Fittings

Nylon insulated!

Steel/Malleable Iron and Aluminum Hub Connectors*†



- Aluminum, steel or malleable iron (steel through 1")
- With neoprene O-ring, provides watertight threaded hub on enclosures
- UL Listed 105° C
- Look for the unique T&B blue color ensuring the highest quality fitting

CAT. NO. STL. OR M.I.	CAT. NO. ALUM.**	SIZE	DIMENSIONS (IN.) A	B	C	WALL THICK (MAX.)
370	370AL	½"	1⅜	1¼	¾	5⁄16
371	371AL	¾	1⅝	1¼	¾	5⁄16
372	372AL	1"	2³⁄₃₂	1⅜	⅞	5⁄16
373	373AL	1⅛"	2⁹⁄₁₆	1⅝	1	5⁄16
374	374AL	1½"	3³⁄₃₂	1⅝	1	5⁄16
375	375AL	2"	3⅝	1⅝	1	5⁄16
376	376AL	2½"	4⅛	1⅞	1⅛	⅜
377	—	3"	5	2½	1½	½
378	—	3½"	5⁹⁄₁₆	2½	1½	½
379	—	4"	6⁹⁄₁₆	2½	1½	½
381	—	5"	8	3⅛		½
382	—	6"	9⁹⁄₁₆	3⅛		½

** Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 2; Class III, Div. 1 and 2 where general purpose equipment is specifically permitted per NEC Section 500-2(a).*

*** Aluminum not available with insulated throat.*

† UL Listed rain tight and CSA Certified watertight and dust tight

Available with DURA-PLATE® Finish.

UL File No. E-23018

For Stl.: CSA File No. 2284

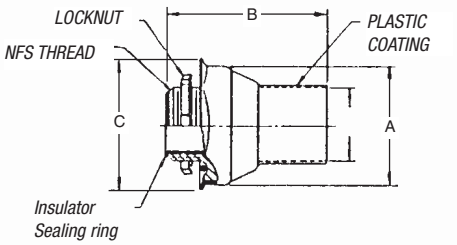
For AL.: CSA File No. 0637

PVC coating protects hub in corrosive environments!

PVC-Coated Hub for Rigid Conduit

- Steel in ½" to 1¼" sizes
- Malleable iron from 1½" to 4" sizes

Steel or malleable iron (steel thru 1¼").



CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C
485	½"	1²¹⁄₆₄	2⅛	1⅛
486	¾"	1¹⁹⁄₃₂	2⅛	2⅛
487	1"	1²⁷⁄₃₂	2¾	2⅜
488	1¼"	2¹⁵⁄₃₂	3⅜	3⅛
489	1½"	2²⁹⁄₃₂	3⅜	3½
490	2"	3⅜	3¾	4
491	2½"	3²⁷⁄₃₂	4	4½
492	3"	4²¹⁄₃₂	4⅝	5⅝
493	3½"	5⁹⁄₆₄	4¹³⁄₁₆	5⅞
494	4"	5¾	4⁹⁄₁₆	6⁷⁄₁₆

Suitable for hazardous locations use per Class I, Div. 2; Class II, Div. 1 & 2; Class III, Div. 1 & 2 NEC 501-4(b); 502-4(a) (2); 503-3(a) where general purpose equipment is specifically permitted per NEC Section 500-2(a).

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Tel: 450.347.5318
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Technical Services
Tel: 888.862.3289

Rigid and Intermediate Metal Conduit Fittings

Spacing Chart for Bullet® Hubs

	CENTER TO CENTER SPACING CONDUIT SIZES (IN.)										MIN. SPACE FROM CENTER OF BULLET® HUB TO WALL OF BOX	KO DIAMETERS (MIN.)
	½	¾	1	1¼	1½	2	2 ½	3	3½	4		
½	1 1/16	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
¾	—	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
1¼	—	—	—	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
1½	—	—	—	—	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
2½	—	—	—	—	—	—	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
3½	—	—	—	—	—	—	—	—	5 5/8	6	2 7/8	4 1/8
4	—	—	—	—	—	—	—	—	—	6 1/4	3 1/4	4 5/8

Bullet® Hub Connectors — Nylon Insulated

CAT. NO.	SIZE (IN.)	DESCRIPTION	PACKAGING CARTON	PACKAGING STD.	WT. PER 100
401	½		25	100	20
402	¾		25	50	26
403	1	Steel or malleable iron (steel through	5	25	44
404-TB	1¼	1 inch). Used with a neoprene O-ring	5	25	75
405	1½	to provide a watertight* threaded hub	2	10	100
406-TB	2	on enclosures. Supplied with 106 series	1	5	138
407	2½	bonding locknut. Temperature rating: 105° C.	1	5	200
408	3		1	5	375
409	3½		—	1	425
410-TB	4		—	1	500

**CSA LR2884. Certified watertight and dust tight.*

Spacing Chart for Bullet® Sealing Hubs

	CENTER TO CENTER SPACING CONDUIT SIZES												MIN. SPACE FROM CENTER OF BULLET® HUB TO WALL OF BOX	KO DIAMETERS (MIN.)
	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6		
½	1 1/16	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	4 7/8	5 5/16	3/4	7/8
¾	—	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	4 13/16	5 1/2	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	4 15/16	5 11/16	1 1/8	1 3/8
1¼	—	—	—	2 11/16	2 15/16	3 1/4	3 1/2	4	4 1/4	4 1/2	5 5/16	5 3/4	1 3/8	1 3/4
1½	—	—	—	—	3 1/8	3 1/2	3 3/4	4 1/8	4 3/8	4 3/4	7 1/16	6 5/16	1 5/8	2
2	—	—	—	—	—	3 3/4	4	4 1/2	4 3/4	5	5 3/4	6 1/2	1 7/8	2 1/2
2½	—	—	—	—	—	—	4 1/4	4 3/4	5	5 3/8	6	6 3/4	2 1/8	3
3	—	—	—	—	—	—	—	5 1/8	5 3/8	5 3/4	6 3/8	7 1/8	2 5/8	3 5/8
3½	—	—	—	—	—	—	—	—	5 5/8	6	6 3/4	7 1/2	2 7/8	4 1/8
4	—	—	—	—	—	—	—	—	—	6 1/4	7 1/8	7 7/8	3 1/4	4 5/8
5	—	—	—	—	—	—	—	—	—	—	8	8 3/4	4	5 1/2
6	—	—	—	—	—	—	—	—	—	—	8 3/4	9 1/2	4 3/4	6 1/2

Rigid and Intermediate Metal Conduit Fittings

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. Look for the distinctive blue color to ensure the quality of a Thomas & Betts fitting.

CAT. NO.	TRADE SIZE	A DIA.	B	C	D MAX. PANEL THICKNESS	E THROAT DIA.
H050-TB	½	1 7/16	1 9/16	7/8	3/16	19/32
H075-TB	¾	1 7/16	1 19/32	29/32	3/16	25/32
H100-TB	1	2	1 13/16	1 1/16	¼	1
H125-TB	1¼	2 3/8	1 7/8	1 1/16	¼	1 5/16
H150-TB	1½	2 3/4	1 7/8	1 1/16	¼	1 17/32
H200-TB	2	3 1/4	1 15/16	1 5/32	¼	1 31/32
H250-TB	2½	3 3/4	2 9/16	1 9/16	¼	2 13/32
H300-TB	3	4 3/8	2 7/16	1 19/32	¼	2 31/32
H350-TB	3½	5	2 23/32	1 5/8	¼	3 13/32
H400-TB	4	5½	2 23/32	1 5/8	¼	3 7/8
H500-TB	5	6 7/8	3 1/32	1 15/16	¼	4 15/16
H600-TB	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 Hubs add suffix A (i.e., H050A). For Chrome-Plated Hubs add suffix CP (i.e., H050CP). For 316 Stainless Steel Hubs add suffix GRSST (i.e., H050GRSST). (½" through 2" only.) Meets NEMA sealing requirements for NEMA 3R, 4 & 13 enclosures.

UL Listed and CSA Certified. CSA Certified for hazardous locations Class II Groups E.F.G. Class III.

UL File No. E-23018 *CSA File No. 4484*

Chrome-Plated Hubs (suffix-"CP") are rated NEMA 4X.

1. Sealing Ring and Groove with innovative profile outperforms standard O-ring design. Sealing ring is captivated in place before installation and resists buckling or slipping during installation. The seal groove is designed for optimum compression of the sealing ring. The sealing ring is designed to provide a complete 360° seal, even when the conduit is not perpendicular with the enclosure. (See **Figure 1**)
2. Locknut Design with peripheral slots and a hexagonal/angled spline spaced every 30° enables easy application of torque with wrench or hammer and screwdriver. (See **Figures 2 & 3**)
3. Sharper and Deeper Teeth on locknut and body designed for a more penetrating bite for improved bonding to the enclosure.
4. Hexagonal/Splined Body Design for fast, easy installation with wrench or hammer and screwdriver.
5. Precision Machined Tapered Threads designed to create watertight union.
6. Insulated Throat molded from 105° C rated thermoplastic with a flammability rating of 94 V-0.

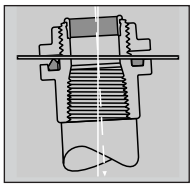


Fig. 1

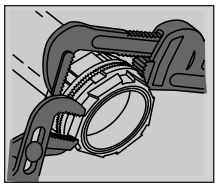


Fig. 2

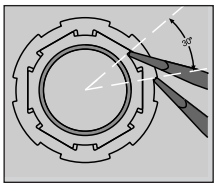
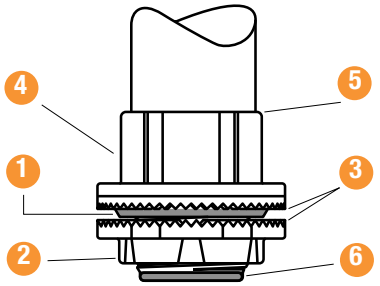
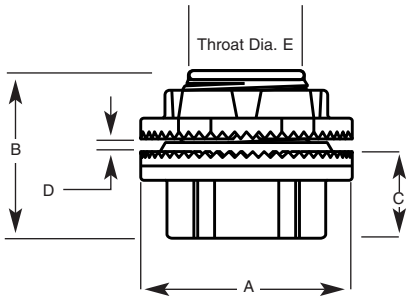


Fig. 3





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Rigid and Intermediate Metal Conduit Fittings

T&B Grounding Hub

CAT. NO.	TRADE SIZE	A DIA.	B	C	D MAX. PANEL THICKNESS	E THROAT DIA.
H050GR-TB	½	1 7/16	1 3/16	7/8	3/16	19/32
H075GR-TB	¾	1 7/16	1 19/32	29/32	3/16	25/32
H100GR-TB	1	2	1 13/16	1 1/16	1/4	1
H125GR-TB	1¼	2 3/8	1 7/8	1 1/16	1/4	1 5/16
H150GR-TB	1½	2 3/4	1 7/8	1 1/16	1/4	1 17/32
H200GR-TB	2	3 1/4	1 15/16	1 5/32	1/4	1 31/32
H250GR-TB	2½	3 3/4	2 9/16	1 9/16	1/4	2 13/32
H300GR-TB	3	4 3/8	2 7/16	1 19/32	1/4	2 31/32
H350GR-TB	3½	5	2 23/32	1 5/8	1/4	3 13/32
H400GR-TB	4	5 1/2	2 23/32	1 5/8	1/4	3 7/8
H500GR-TB	5	6 7/8	3 5/32	1 15/16	1/4	4 15/16
H600GR-TB	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

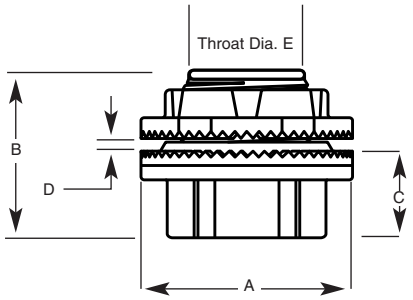
Sealing Ring: Nitrile (BUNA "N")

For Aluminum Hubs add suffix A (i.e., H050A). For Chrome-Plated Hubs add suffix CP (i.e., H050CP). For 316 Stainless Steel Hubs add suffix GRSST (i.e., H050GRSST). ½" through 2" only.) Meets NEMA sealing requirements for NEMA 3R, 4 & 13 enclosures.

UL Listed and CSA Certified. CSA Certified for hazardous locations Class II Groups E.F.G. Class III.

UL File No. E-23018 *CSA File No. 4484*

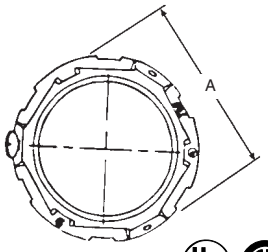
Chrome-Plated Hubs (suffix-"CP") are rated NEMA 4X.



T&B Hub Centerline Spacing Chart

CONDUIT TRADE SIZE	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"
½"	1 3/16											
¾"	1 43/64	1 25/32										
1"	1 27/32	1 61/64	2 1/8									
1¼"	2 1/32	2 9/64	2 5/16	2 1/2								
1½"	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						
2½"	2 23/32	2K	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				
3½"	3 11/32	3 37/64	3 5/8	3 13/16	4	4 1/4	4 1/2	4 13/16	5 1/8			
4"	3 19/32	3 45/64	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"	4s	3ç	4 5/16	4 3/4	4 15/16	5 1/16	5 5/16	5 3/4	6 1/16	6 5/16	7	
6"	4 11/16	4J	4 31/32	5 5/32	5 11/32	5 13/32	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 15/16	3 31/32

T&B Grounding and Bonding Locknut



Grounding Locknut for Hubs

CAT. NO.	TRADE SIZE	A DIA.	B HEIGHT	GROUND SCREW	MAX. CONDUCTOR SIZE
L050GR-TB	½	1½	13/32	#10-32 x ¼"	#10
L075GR-TB	¾	1 11/16	13/32	#10-32 x ¼"	#10
L100GR-TB	1	2	13/32	#10-32 x ¼"	#10
L125GR-TB	1¼	2 3/8	15/32	¼-20 x ¼"	#10
L150GR-TB	1½	2 3/4	15/32	¼-20 x 5/16"	#8
L200GR-TB	2	3 1/4	15/32	¼-20 x 5/16"	#8
L250GR-TB	2½	3 3/4	11/16	¼-20 x 5/16"	#6
L300GR-TB	3	4 3/8	23/32	¼-20 x 5/16"	#6
L350GR-TB	3½	5	23/32	¼-20 x 5/16"	#6
L400GR-TB	4	5 1/2	23/32	¼-20 x 5/16"	#4
L500GR-TB	5	6 7/8	23/32	3/8-16 x 3/8"	#2
L600GR-TB	6	7 11/16	23/32	3/8-16 x 3/8"	#1

Material – Locknut: zinc or copper-free aluminum *UL File No. E-3060*

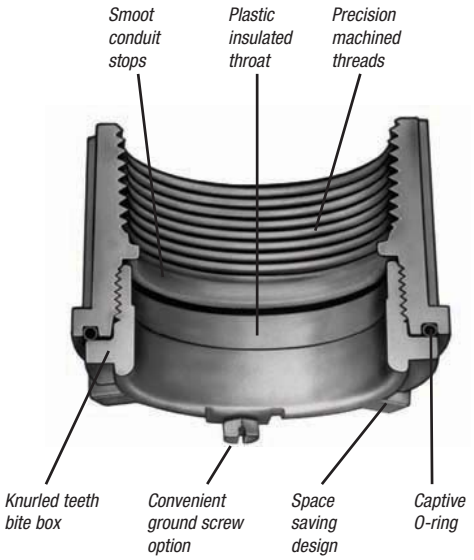
For Aluminum Locknuts add suffix A. (i.e., L050GRA) *CSA File No. 4484*

For Chrome-Plated Locknuts add suffix CP. (i.e., L050CP). For 316 Stainless Steel Locknuts add suffix SST (½" through 2" only.) For Locknut with Lay In Lug add suffix GRL

Rigid and Intermediate Metal Conduit Fittings

HT, HTZ

HTGZ



Raintight for Rigid or Intermediate Metal Conduit (IMC)

Chase® Threaded Conduit Hubs

Applications:

- A fitting for connecting junction box to junction box, or junction box to the conduit system. The resulting connection maintaining ground continuity is raintight.
- Suitable for use where the system is normally hosed down (NEMA 4) for cleaning.

Features/Benefits:

- Plastic insulated throat, precision cast and machined surfaces permit safer wire pulling.
- Chase® design provides maximum space for wiring in the box.Locking nipple sits flush in the enclosure.
- Captive O-ring fits snugly in groove preventing loss and fumbling with parts.
- Knurled inner face of locking nipple provides 360 degrees of locking and bites through box wall to ensure grounding.
- Locking nipple has tightening lugs on two planes for easier assembly in hard to reach field conditions.
- Grounding hubs have a ground screw located within the enclosure providing a tamper-proof ground for device.
- Locking nipple design permits replacement of the box without disassembling the installation.

Standard Materials:

- HTZ Series: Certified die cast zinc alloy ZAMAK 3.
- HT Series: Die cast aluminum alloy A360 with less than .004 copper content (copper-free).
- O-ring: Buna N
- Insulating Sleeves: Plastic

Standard Finish:

- Aluminum lacquer finish

Compliances:

- UL Listed
- CSA Certified
- Suitable for use in Wet Locations
- NEMA 4

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Tel: 888.862.3289

Rigid and Intermediate Metal Conduit Fittings

Chase® Hub with Insulated Throat

CAT. NO.	HUB SIZE	STD. PKG.	WT. LBS. APP. PER 100
HTZ1	½"	25	26
HTZ2	¾"	25	32
HTZ3	1"	25	45
HTZ4	1¼"	10	58
HTZ5	1½"	10	74
HTZ6	2"	10	93
HTZ7	2½"	5	202
HTZ8	3"	2	250
HTZ9*	3½"	2	300
HTZ10*	4"	2	360

Made to order item. Consult factory for lead time and minimum quantities.

HTZ

Chase® Hub with Insulated Throat and Ground Screw

CAT. NO.	HUB SIZE	STD. PKG.	WT. LBS. APP. PER 100
HTGZ1	½"	25	22
HTGZ2	¾"	25	34
HTGZ3	1"	25	44
HTGZ4	1¼"	10	61
HTGZ5	1½"	10	75
HTGZ6	2"	10	95
HTGZ7	2½"	5	204
HTGZ8	3"	2	265
HTGZ9	3½"	2	270
HTGZ10	4"	2	360

HTGZ

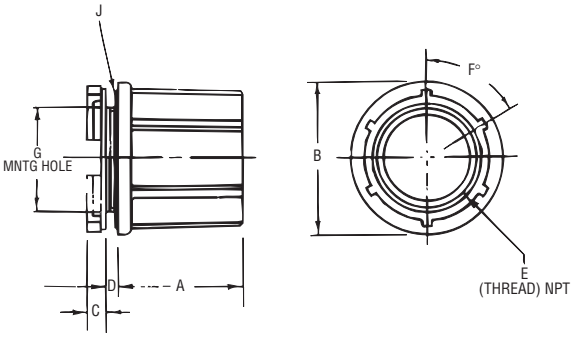
Chase® Aluminum Hub with Insulated Throat

CAT. NO.	HUB SIZE	STD. PKG.	WT. LBS. APP. PER 100
HT1	½"	25	12
HT2	¾"	25	14
HT3	1"	25	20
HT4	1¼"	10	27
HT5	1½"	10	32
HT6	2"	10	44
HT7	2½"	5	85
HT8	3"	2	120
HT9	3½"	2	138
HT10	4"	2	155

HT

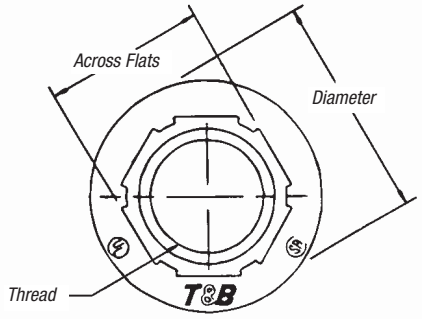
HTZ, HTGZ and HT

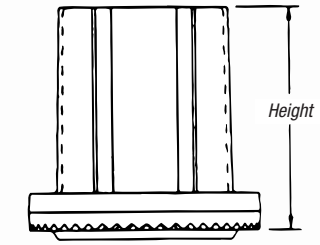
HUB SIZE	A	B	C	PANEL WIDTH D	E	F	MIN. G	MAX. H	O-RING SIZE J
½"	1⅜	1 13/32	¼	3/16	½–14	60	21/32	59/64	214
¾"	1⅜	1 21/32	¼	3/16	¾–14	60	1 3/32	1 11/64	218
1"	1 19/32	1⅞	¼	3/16	1–11½	60	1 5/16	1 23/32	222
1¼"	1 23/32	2 5/16	¼	¼	1¼–11½	60	1 43/64	1 51/64	225
1½"	1¾	2⅝	¼	¼	1½–11½	60	1 29/32	2 13/64	227
2"	1 25/32	3 5/32	¼	¼	2–11½	60	2⅜	2 21/32	231
2½"	2¼	2 45/64	⅜	¼	2½–8	45	2⅞	3 5/32	236
3"	2 21/64	4 5/16	⅜	¼	3–8	45	3½	3 49/64	241
3½"	2 53/64	4 13/16	⅜	¼	3½–8	45	4	4 7/16	245
4"	2⅜	5 5/16	⅜	¼	4–8	45	4½	4 63/64	248

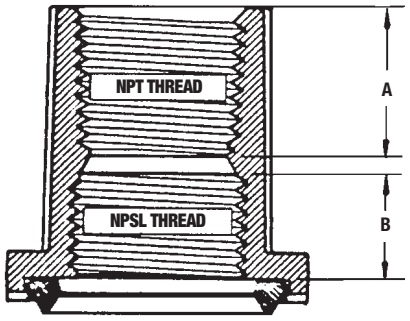


Rigid and Intermediate Metal Conduit Fittings

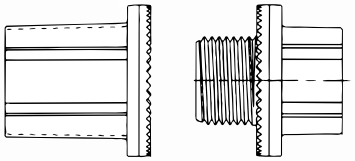
T&B Bulkhead Fittings



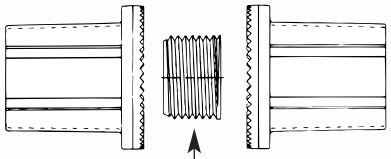




Bulkhead Fitting

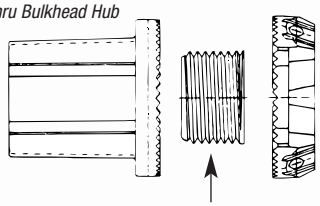


Thru Bulkhead Fitting



Nipple Nut Not Included

Thru Bulkhead Hub



Nipple Nut Not Included

CAT. NO.	TRADE SIZE (IN.)
Bulkhead Fitting	
H050BHD	½
H075BHD	¾
H100BHD	1
H125BHD	1¼
H150BHD	1½
H200BHD	2
H250BHD	2½
H300BHD	3
H350BHD	3½
H400BHD	4
H500BHD	5
H600BHD	6
Thru Bulkhead Fitting	
H050TBF	½
H075TBF	¾
H100TBF	1
H125TBF	1¼
H150TBF	1½
H200TBF	2
Thru Bulkhead Hub	
H050TBH	½
H075TBH	¾
H100TBH	1
H125TBH	1¼
H150TBH	1½
H200TBH	2

TRADE SIZE	THREAD	HEIGHT	DIAMETER	ACROSS FLATS	A (IN.)	B (IN.)
½"	½"–14"	1 13/32"	1 7/16"	1"	¾	½
¾"	¾"–14"	1 15/32"	1 11/16"	1¼"	25/32	17/32
1"	1"–11½"	1 11/16"	2"	1 17/32"	29/32	19/32
1¼"	1¼"–11½"	1 25/32"	2 3/8"	1 27/32"	29/32	21/32
1½"	1½"–11½"	1 13/16"	2¾"	1⅞"	29/32	21/32
2"	2"–11½"	1 27/32"	3¼"	2⅝"	15/16	21/32
2½"	2½"–8"	2 3/32"	3¾"	3⅛"	1 7/32	⅞
3"	3"–8"	2 9/16"	4⅜"	3 25/32"	1 3/16	29/32
3½"	3½"–8"	2 9/16"	5"	4 9/32"	1⅜	⅞
4"	4"–8"	2 9/16"	5½"	4 27/32"	1⅜	⅞
5"	5"-8"	2 23/32"	6 5/8"	5 29/32"	1 15/32	⅞
6"	6"–8"	3"	7 1/16"	7 1/32"	1½	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 Bulkheads add suffix A.

For Chrome-Plated Bulkheads add suffix CP.

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

CSA Certified for hazardous locations Class II Groups E.F.G. Class III.

UL File No. E-3060

CSA File No. 4484

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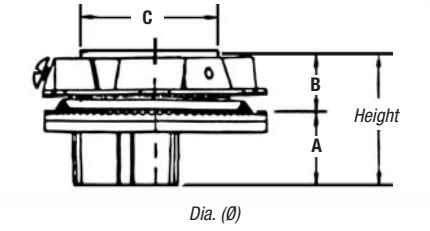
Rigid and Intermediate Metal Conduit Fittings

Offset Reducers



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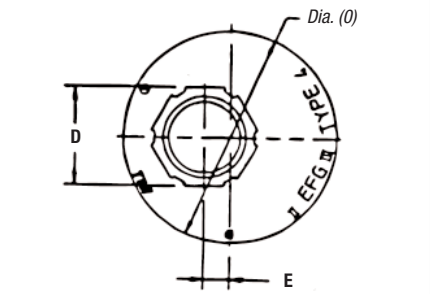


CAT. NO.	TRADE SIZE	HEIGHT	DIA. (Ø)	(IN.) A DIA.	B	C	D	E
H150-TB0750RGR	1½"–¾"	1 21/32"	2¾	15/16	23/32	1 29/32	1 9/32	11/32
H150-TB1000RGR	1 9/32"–1"	1 25/32"	2¾	1 1/16	23/32	1 29/32	1 9/16	7/32
H150-TB1250RGR	1 9/32"–1¼"	1 25/32"	2¾	1 1/16	23/32	1 29/32	1⅞	1/32
H250-TB2000RGR	2½"–2"	2⅛"	3¾	1 3/16	15/16	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.

For Chrome-Plated Offset Reducer add suffix CP.

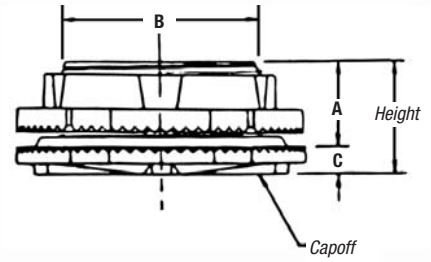
Meets NEMA sealing requirements for NEMA 3R. 4 & 13 enclosures.

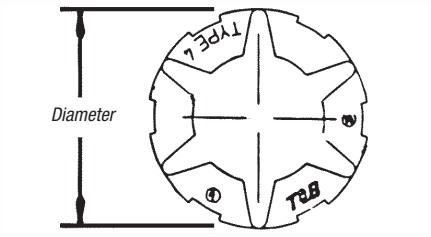
CSA Certified for hazardous locations Class II Groups E.F.G. Class III.

UL File No. E-3060

CSA File No. 4484

Capoffs





CAT. NO.	TRADE SIZE	HEIGHT	(IN.) DIAMETER	A	B	C
H050CAP	½"	1 13/32"	1 7/16	19/32	27/32	3/16
H075CAP	¾"	1 15/32"	1 11/16	19/32	1 1/16	3/16
H100CAP	1"	1 11/16"	2	1 1/16	1 3/16	¼
H125CAP	1¼"	1 25/32"	2⅜	23/32	1 21/32	¼
H150CAP	1½"	1 13/16"	2¼	23/32	1 29/32	¼
H200CAP	2"	1 27/32"	3¼	23/32	2⅜	¼
H250CAP	2½"	2 3/32"	3¾	⅞	2 29/32	¼
H300CAP	3"	2 3/16"	4⅜	⅞	3 1/32	11/32
H350CAP	3½"	2 3/16"	5	29/32	4 1/32	11/32
H400CAP	4"	2 3/16"	5½	29/32	4½	11/32
H500CAP	5"	2 23/32"	6⅝	29/32	5 5/16	11/32
H600CAP	6"	3"	7⅝	31/32	6⅝	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.

For Chrome-Plated Capoff add suffix CP.

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

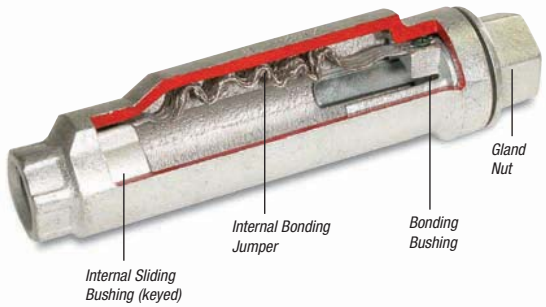
CSA Certified for hazardous locations Class II Groups E.F.G. Class III.

UL File No. E-3060

CSA File No. 4484

Rigid and Intermediate Metal Conduit Fittings

8" Movement



4" Movement

XJG24-TB

Innovative Design Makes Installations Easier.

- No disassembly necessary to install
- Fast, simple, and requires fewer steps
- True Internal Bonding Jumper — no external grounding strap required
- Tamper-proof internal jumper protected from the environment
- Exceeds code requirements for long conduit runs to permit linear movement

No disassembly required.

XJG-TB Rigid Conduit Expansion Coupling

Whenever you install a rigid expansion coupling in a long conduit run, you normally need three hands, two strong backs and lots of patience. Now you can relax. With the no-hassle Rigid Conduit Expansion Coupling, installation's just a few turns and you're done.

The T&B Rigid Conduit Expansion Coupling features innovations that provide conveniences to the installer, saving time and money on the job. There's no disassembly needed during the installation, requiring fewer tools and less opportunities for lost pieces. It also features a true internal bonding jumper, eliminating the need for external jumpers, so there are fewer parts to buy and install.

If you need a fitting that can give and take without a lot of hassle, reach for T&B's XJG-TB Rigid Conduit Expansion Coupling. It's the latest breakthrough in the industry's leading line of conduit fittings. Contact your local representative for more information regarding the XJG-TB Rigid Conduit Expansion Coupling and the complete line of conduit fittings from the name you trust for quality design and manufacturing, Thomas & Betts.

1

Slide the fitting onto the conduit until it stops at the internal sliding bushing. Tighten and you're ready. No parts to reassemble!

2

With a wrench, tighten the gland nut to compress the Teflon packing, creating a raintight seal around the conduit.

3

Thread the next length of conduit into the other end of the fitting and tighten. You're done!

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Rigid and Intermediate Metal Conduit Fittings

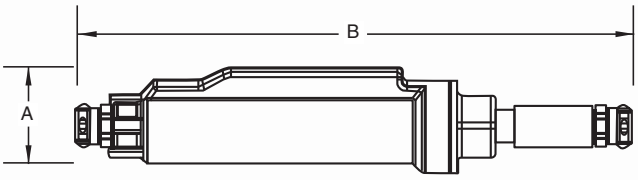
XJG Conduit Expansion Coupling

CAT NO.	SIZE	MOVEMENT	A DIAMETER	B LENGTH	C HEIGHT
XJG24-TB	¾"	4"	2.43	10.00	2.75
XJG28-TB	¾"	8"	2.43	14.00	2.75
XJG34-TB	1"	4"	2.67	10.00	2.99
XJG38-TB	1"	8"	2.67	14.00	2.99
XJG44-TB	1¼"	4"	3.36	10.56	3.68
XJG48-TB	1¼"	8"	3.36	14.56	3.68
XJG54-TB	1½"	4"	3.36	10.56	3.68
XJG58-TB	1½"	8"	3.36	14.56	3.68
XJG64-TB	2"	4"	3.86	11.25	4.18
XJG68-TB	2"	8"	3.86	15.25	4.18
XJG74-TB	2½"	4"	4.96	12.12	5.25
XJG78-TB	2½"	8"	4.96	16.12	5.25
XJG84-TB	3"	4"	4.96	12.12	5.25
XJG88-TB	3"	8"	4.96	16.12	5.25
XJG94-TB	3½"	4"	6.37	12.87	6.75
XJG98-TB	3½"	8"	6.37	16.87	6.75
XJG104-TB	4"	4"	6.37	12.87	6.75
XJG108-TB	4"	8"	6.37	16.87	6.75
XJG1208-TB	5"	8"	7.99	18.87	8.56

Please consult Technical Services for special orders and availability of products not shown in this list.

XJG Conduit Expansion Coupling for EMT

CAT NO.	SIZE IN. (MM)	MOVEMENT IN. (MM)	A LENGTH IN. (MM)	B HEIGHT IN. (MM)
XJG24-EMT	4" (101.6)	¾" (21)	17.39 (441.7)	2.75 (69.8)
XJG28-EMT	8" (203.2)	¾" (21)	21.39 (543.3)	2.75 (69.8)
XJG34-EMT	4" (101.6)	1" (27)	17.42 (442.5)	2.99 (75.9)
XJG38-EMT	8" (203.2)	1" (27)	21.42 (544.1)	2.99 (75.9)
XJG44-EMT	4" (101.6)	1¼" (35)	18.27 (464.1)	3.46 (87.88)
XJG48-EMT	8" (203.2)	1¼" (35)	22.27 (565.7)	3.46 (87.88)
XJG54-EMT	4" (101.6)	1½" (41)	18.69 (474.7)	3.68 (93.4)
XJG58-EMT	8" (203.2)	1½" (41)	22.69 (576.3)	3.68 (93.4)
XJG64-EMT	4" (101.6)	2" (53)	19.04 (483.6)	4.18 (106.2)
XJG68-EMT	8" (203.2)	2" (53)	23.04 (585.2)	4.18 (106.2)
XJG74-EMT	4" (101.6)	2½" (63)	23.23 (589.9)	4.52 (114.8)
XJG78-EMT	8" (203.2)	2½" (63)	27.23 (691.6)	4.52 (114.8)
XJG84-EMT	4" (101.6)	3" (78)	24.09 (611.9)	5.25 (133.4)
XJG88-EMT	8" (203.2)	3" (78)	28.09 (713.5)	5.25 (133.4)
XJG94-EMT	4" (101.6)	3½" (91)	28.70 (728.9)	6.00 (152.4)
XJG98-EMT	8" (203.2)	3½" (91)	28.70 (728.9)	6.00 (152.4)
XJG28-TB	4" (101.6)	4" (103)	29.30 (743.9)	6.75 (171.5)
XJG108-EMT	8" (203.2)	4" (103)	29.30 (743.9)	6.75 (171.5)



XJG24-EMT

Listed / Certified By:

UL (File E23018, Std. 514B)
Suitable for Wet Locations

CSA (File LR2884, Std. C22.2 No. 18)

NEC 250.98

Standard Materials / Finish

Body . . . . . .Ductile Iron, available PVC Coated

Internal Bonding Jumper . . . . . .Tinned Copper Braid

Exterior and Interior Finish . . . . . .Zinc Plating, Aluminum Acrylic Paint

Packing . . . . . .PTFE/Synthetic Fiber Material

(Teflon® Coated)

Suggested Specifications

Expansion Fittings for Rigid Steel or Intermediate Metal Conduit

Where raceways require expansion fittings to compensate for thermal expansion and contraction and where expansion fittings and telescoping sections of metal raceway shall be made electrically continuos by bonding jumpers or other means:

- Fitting will be constructed from malleable or ductile iron with exterior and interior zinc plating for corrosion protection.
- The fitting shall be constructed so that disassembly is not required during installation.
- Fitting shall be raintight after installation.
- The fitting shall have an internal bonding jumper constructed of a tinned copper braid, sized to meet UL fault current test requirements and comply with bonding requirements — NEC article 250.98
- External bonding jumper shall not be required to comply with NEC requirements.
- Accepted Manufacturers: Thomas & Betts - XJG-TB Series

Rigid and Intermediate Metal Conduit Fittings

8123 Series

8130 Series

8120 Series

Threadless Connector/Coupling

(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
- Capable of carrying ground fault currents up to 10,000 amps RMS (½" through 1½" size) and 20,000 amps RMS (2" and above sizes) for a duration of current 3 cycles

Standard Material

Nut, Gland ½" to 1" Steel – 1¼" to 4" Malleable Iron
Body . . . . . All Malleable Iron
Ring . . . . . Steel (case hardened)
Insulator . . . . . Nylon
Locknut . . . . . ½" thru 2" Steel (hardened) 2" thru 4" Malleable Iron

Standard Finish

Electro Zinc Plated & Chromate Coated

Range

8123 & 8120 Series. . ½" through 4" Size Conduit
8130 Series . . . . . ½" through 2" Size Conduit
All hub threads . . . . . Straight Pipe (NPS)

Conforms to

UL 514B
CSA C22.2 No. 18
NFPA 70
NEMA FB1
Federal Specification A-A-50553
Federal Standard H-28 (Threads)

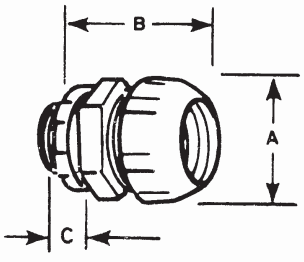
Listed/Certified by

UL (UL File No: E-23018)
CSA (LR-2884, LR-4484)

Split steel ring with diagonal serrations grips conduit and bites in for positive ground!

Threadless Connectors — Nylon Insulated

- Makes a permanent connection
- Eliminates need for cutting a thread on conduit
- Insulation helps ensure continuity of service by protecting the conductor at the critical point — the connector bushing
- Malleable iron construction
- Look for the unique T&B blue color, ensuring the highest quality fitting



CAT. NO. NYLON INSUL.	CAT. NO. NON-INSUL.	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C
8123	8121	½"	1 7/32	1 11/16	1½
8223	8221	¾"	1 17/32	1¾	1½
8323	8321	1"	1 29/32	2	9/16
8423	8421	1¼"	2⅜	2 7/16	11/16
8523	8521	1½"	2 11/16	2⅝	¾
8623	8621	2"	3¼	2 13/16	27/32
8723-TB	8721	2½"	4⅛	3 13/16	1⅛
8823	8821	3"	4⅞	4	1 7/32
8853	8851	3½"	5½	4⅛	1⅛
8973	8971	4"	6 1/32	4⅞	1⅛

Available with DURA-PLATE® Finish. UL File No. E-23018 CSA File No. 2884

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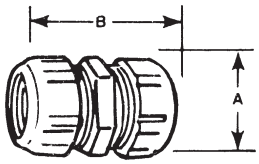
Rigid and Intermediate Metal Conduit Fittings

Just tighten with a wrench to make a UL Listed and CSA Certified concrete-tight connection!

Threadless Couplings

- Eliminates need for conduit threading
- Malleable iron construction



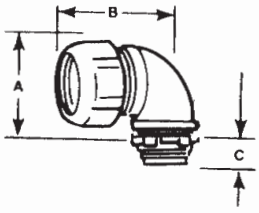
CAT. NO.	SIZE	DIMENSIONS (IN.) A	B
8120	½"	1 3/32	2
8220	¾"	1 19/32	2 5/16
8320	1"	1⅞	2 1/16
8420	1¼"	2⅜	2 13/16
8520	1½"	2⅝	3⅜
8620	2"	3¼	3 13/16
8720	2½"	3 15/16	5⅜
8820	3"	4 1/16	5½
8850	3½"	5 3/16	5½
8970	4"	5 1/16	5½

Available with DURA-PLATE® Finish. *UL File No. E-23018* *CSA File No. 2884*

Ideal for entering enclosure or conduit body at right angles!

Threadless Short Elbows — Nylon Insulated

- Eliminates need to thread conduit
- As with straight couplings, makes a concrete-tight connection
- Malleable iron construction



CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C
8130	½"	1 11/32	1½	½
8131	¾"	1⅝	1¾	9/16

Available with DURA-PLATE® Finish.

UL File No. E-23018

CSA File No. 2884

Rigid and Intermediate Metal Conduit Fittings

Set Screw Connector/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
- Screw captivated, will not vibrate loose
- Nylon insulated throat meets and exceeds all code 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 concrete-tight application
- Capable of carrying ground fault currents up to 10,000 amps RMS (½" through 1½" size) and 20,000 amps RMS (2" and above sizes).

Standard Material

Body . . . . . ½" thru 2" Steel
2½" thru 4" Malleable Iron

Locknut . . . . . ½" thru 2" Steel (hardened)
2½" thru 4" Malleable Iron

Screw . . . . . Steel (hardened)

Insulator . . . . . Nylon

Standard Finish

Electro Zinc Plated & Chromate Coated

Listed/Certified by

UL (UL File No: E-23018)

CSA (LR-2884, LR-4484)

Conforms to

UL 514B

CSA C22.2 No. 18

NFPA 70

NEMA FB1

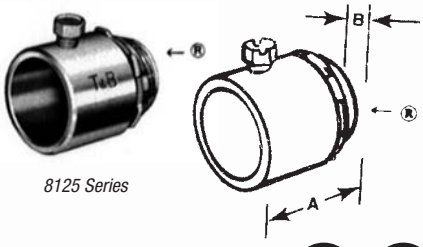
Federal Specification A-A-50553

Federal Standard H-28 (Threads)

Eliminates the need for conduit threading!

Insulated Set-Screw Connector

- Captive hex head screws tighten down onto conduit for positive holding strength and ground
- Furnished with insulated throats to reduce wire-pulling effort by as much as 50%
- Approved concrete-tight



8125 Series

CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.) A	B
8125	½"	1⅜	13/32
8225	¾"	1½	7/16
8325	1"	1¾	35/64
8425	1¼"	2	⅝
8525	1½"	2⅝	⅝
8625-TB	2"	2⅞	11/16
8725-TB	2½"	3⅜	1
8825	3"	3⅞	1
8855	3½"	3⅞	1⅛
8975	4"	4⅜	1⅛

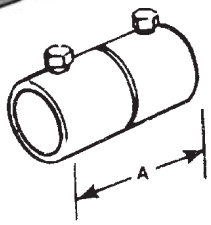
Sizes ½"–2" made of steel. Sizes 2½"–4" are malleable iron.
Available with DURA-PLATE® Finish.
UL File No. E-23018 CSA File No. 2884

No need to thread conduit ends when joining rigid conduit!

Set-Screw Coupling

- Captive hex head screws provide positive holding strength and ground continuity
- Approved concrete-tight

8124 Series



CAT. NO.	CONDUIT SIZE	DIMENSION (IN.) A
8124	½"	2½
8224	¾"	2 1/16
8324-TB	1"	2 27/32
8424	1¼"	3
8524	1½"	3⅜
8624	2"	3⅝
8724	2½"	3⅞
8824-TB	3"	4¼
8854	3½"	4 15/16
8974	4"	5⅜

Sizes ½"–2" made of steel; sizes 2½"–4" are malleable iron.
Available with DURA-PLATE® Finish.
UL File No. E-23018 CSA File No. 2884

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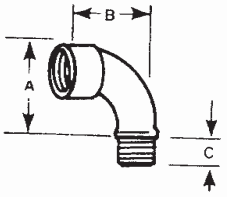
Rigid and Intermediate Metal Conduit Fittings

Smoothly rounded shoulders protect conductor insulation!

Bushed Elbows

- Non-insulated
- Malleable iron construction



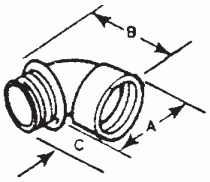
CAT. NO.	SIZE	DIMENSION (IN.) A	B	C
460-TB	½"	1⅛	1 3⁄16	⅝
461TB	¾"	1½	2¼	⅝
462	1"	1 3⁄16	2 1⁄16	¾
463	1¼"	2¼	3⅛	¾

Available with DURA-PLATE® Finish. UL File No. E 23018. CSA File No. 2884

Integral insulation ensures a smooth bushing in every fitting!

Short Elbows — Nylon Insulated

- Malleable iron construction



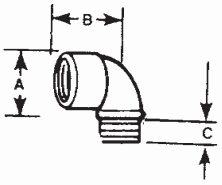
CAT. NO.	SIZE	DIMENSION (IN.) A	B	C
4290	½"	1 7⁄32	1¼	½
4291	¾"	1 7⁄16	1 5⁄16	9⁄16
4292	1"	1 23⁄32	1 9⁄16	11⁄16
4293	1¼"	2 1⁄32	2 1⁄16	13⁄16
4294	1½"	2 15⁄32	2 3⁄16	13⁄16
4295	2"	3	2 9⁄16	13⁄16

Available with DURA-PLATE® Finish. Not UL or CSA.

For non-insulated applications

Short Elbows

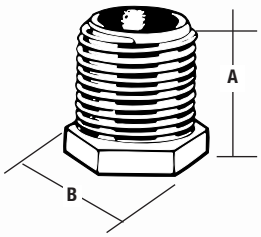
- Malleable iron construction



CAT. NO.	SIZE	DIMENSION (IN.) A	B	C
4250	½"	1 5⁄16	1¼	7⁄16
4251	¾"	1 17⁄32	1 5⁄16	½
4252	1"	1 13⁄16	1 9⁄16	⅝
4253	1¼"	2 9⁄32	2 1⁄16	11⁄16
4254	1½"	2 9⁄16	2 3⁄16	11⁄16
4255	2"	3 3⁄32	2 9⁄16	11⁄16

Available with DURA-PLATE® Finish. U.L. File #E-23018 CSA File No. 589

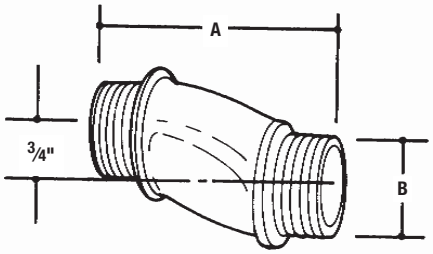
Conduit Nipples — Die-Cast Zinc, 1" Long



CAT. NO.	SIZE	A	B
HA-211	½"	1"	15⁄16"
HA-212	¾"	1"	1 3⁄16"
HA-213	1"	1"	1 7⁄16"

UL File No. E-1275 ½" & ¾" only

Offset Nipples — Die-Cast Zinc



CAT. NO.	SIZE	A	B
HO-221	½"	2.60"	1.00"
HO-222	¾"	2.62"	1.32"
HO-223	1"	2.68"	1.51"
HO-224	1¼"	2.85"	1.85"
HO-225	1½"	2.88"	2.08"
HO-226	2"	3.19"	2.71"

¾" offset

UL File No. E-1275

Rigid and Intermediate Metal Conduit Fittings

Threaded Erickson® 3-Piece Coupling

(For Threaded Rigid Metal Conduit and Intermediate Metal Conduit)

674 Series
675AL Series

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 (½" through 1½" 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 & Case . . . . . Malleable Iron
Ring . . . . . Steel & Malleable Iron

675AL Series

Bushing & Case . . . . . Aluminum
Ring . . . . . Aluminum

Standard Finish

674 Series: Electro Zinc Plated & Chromate Coated

675AL Series: Degreased

Range

⅜" thru 6" Conduit (malleable iron)

½" thru 6" Conduit (aluminum)

All straight pipe threads (NPS)

Listings/Compliances

UL 514B

CSA C22.2 No. 18

NEMA FB1

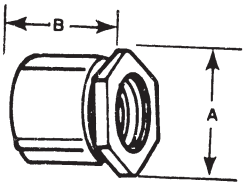
NFPA 70-1999 (ANSI)

Federal Specification A-A-50553

Federal Standard H-28 (Threads)

Raintight

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. Malleable iron.



CAT. NO.	ALUM.* CAT. NO.	SIZE	DIMENSIONS (IN.) A	B
674	—	⅜"	1⅛	1⅛
675	675AL	½"	1 15/32	1¼
676	676AL	¾"	1 9/16	1 13/32
677	677AL	1"	1 29/32	1⅝
678	678AL	1¼"	2⅜	1 13/16
679	679AL	1½"	2⅝	1 31/32
680TB	680AL	2"	3 3/32	2 3/32
681	681AL	2½"	3 31/32	2 11/16
682	682AL	3"	4 7/16	2 29/32
683	683AL	3½"	5	3
684	684AL	4"	5½	3 3/16
685	685AL	4½"	6¼	3 15/32
686	686AL	5"	6 25/32	3¾
687	687AL	6"	8	4 1/32

**Copper-Free Aluminum concrete-tight.*

UL Listed and CSA Certified

UL File No. E-23018

CSA File No. 2884

Split Couplings

- Ideal for retrofit installations or in tight areas
- Fast installation
- Neoprene gasket provides a concrete-tight seal.
- Joins threaded conduit even when the conduit can't rotate.
- Approved for direct burial

Specifications

- Material: Malleable Iron
- Gasket: Neoprene
- Plating: Zinc Plated
- Standards: UL Standard 514B, NEMA FB-1

T&B's Split Coupling is a simple method to join threaded conduits in retrofits or in snug areas. Available in ½" to 6".

½" and ¾" furnished with one screw

1" and 6" furnished with two screws

CAT. NO.	TRADE SIZE	DIMENSIONS (IN.) A	B	C	WEIGHT PER 100
SPCP50	½"	2"	1¼"	1¼"	34.4
SPCP75	¾"	2 5/16"	1¼"	1½"	39.4
SPCP100	1"	2⅝"	1⅝"	1 13/16"	60.0
SPCP125	1¼"	3 1/16"	1⅝"	2 1/16"	75.0
SPCP150	1½"	3 5/16"	1 15/16"	2 1/16"	112.5
SPCP200	2"	3 13/16"	2"	2⅞"	112.5
SPCP250	2½"	4⅝"	3 1/16"	3 3/16"	275.0
SPCP300	3"	5 5/16"	3⅜"	4⅛"	300.0
SPCP350	3½"	6 1/16"	3¼"	4 13/16"	425.0
SPCP400	4"	6 9/16"	3 7/16"	5⅜"	500.0
SPCP500	5"	8 1/16"	3⅜"	6 9/16"	900.0
SPCP600	6"	9¼"	4 5/16"	7⅝"	1,300.0

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Fax: 901.252.1354

Canada
Tel: 450.347.5318
Fax: 450.347.1976

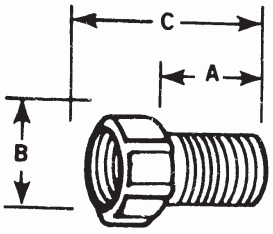
Technical Services
Tel: 888.862.3289

Rigid and Intermediate Metal Conduit Fittings

The ideal solution for applications requiring longer thread length!

Panel Connector Extensions

- Will combine with any fitting with a male thread
- Male thread of panel connector extension is 1" long
- Malleable iron construction



CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C
1440	½"	1¼	1³⁄₃₂	1⅞
1441	¾"	1⅜	1¹¹⁄₃₂	2
1442	1"	1¼	1¹⁹⁄₃₂	1¹⁵⁄₁₆
1443	1¼"	1¼	1¹⁵⁄₁₆	1⁵⁄₁₆

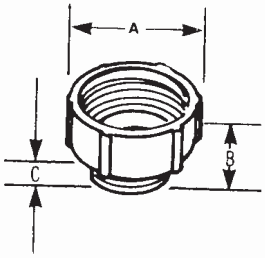
UL File No. E-23018

CSA File No. 2884

Adapt an outlet hole to the next larger size of conduit!

Male Enlargers*

- Built-in bushing covers rough ends of conduit
- Malleable iron construction



CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C
1245	½" to ¾"	1¹³⁄₃₂	1¹⁄₁₆	½
1246	¾" to 1"	1¹¹⁄₁₆	1¼	¹⁵⁄₃₂
1244	1" to 1¼"	2¹⁄₁₆	1¹¹⁄₃₂	½
1247	1¼" to 1½"	2⁵⁄₁₆	1⅜	⁹⁄₁₆

** All items shown in this chart are suitable for use in hazardous locations where general purpose equipment is specifically permitted by the NEC; Class I, Div. 2; Class II, Div. 1 & 2; Class III, Div. 1 & 2, NEC 501-4(b); 502-4(a)(b); 503-3(a)(b).*

Available with DURA-PLATE® Finish.

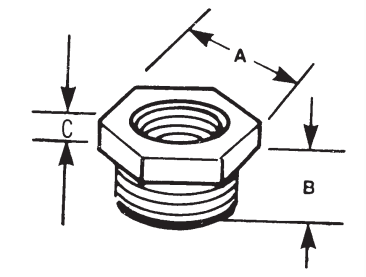
UL File No. E-23018

CSA File No. 2884

Adapt any outlet to the next smaller size of conduit!

Female Reducers*

- Hex shoulder for easy wrench tightening
- Malleable iron construction



CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C
1250	¾" to ½"	1⅛	⅝	³⁄₁₆
1261	1" to ½"	1⁷⁄₁₆	²¹⁄₃₂	³⁄₁₆
1251	1" to ¾"	1⅜	¹¹⁄₁₆	³⁄₁₆
1262	1¼" to ½"	1¹³⁄₁₆	²³⁄₃₂	³⁄₁₆
1263	1¼" to ¾"	1¹³⁄₁₆	²³⁄₃₂	³⁄₁₆
1252	1¼" to 1"	1¾	²⁵⁄₃₂	⁷⁄₃₂
1253	1½" to 1¼"	2	¹³⁄₁₆	¼
1254	2" to 1½"	2⅜	1³⁄₁₆	⁹⁄₃₂
1255	2½" to 2"	3	1¼	⅜
1256	3" to 2½"	3⅝	1½	½
1257	3½" to 3"	4⅛	1⁹⁄₁₆	½
1258	4" to 3½"	4⅝	1⁹⁄₁₆	½

** All items shown in this chart are suitable for use in hazardous locations where general purpose equipment is specifically permitted by the NEC; Class I, Div. 2; Class II, Div. 1 & 2; Class III, Div. 1 & 2, NEC 501-4(b); 502-4(a) (b); 503-3(a) (b).*

Available with DURA-PLATE® Finish. *UL File No. E-23018* *CSA File No. 2884*

Rigid and Intermediate Metal Conduit Fittings

Stainless Steel Pipe Straps

- Higher degree of corrosion resistance than traditionalzinc plated or hot-dipped galvanized straps
- One and two-hole straps for EMT sizes ½" through 2"
- One and two-hole straps for Rigid and IMC size ½" through 4"
- 303 Stainless Steel

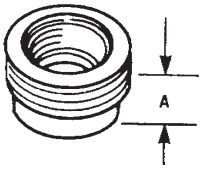
Thomas & Betts offers stainless steel pipe straps to support and securely fasten rigid, IMC and EMT conduit. One and two-hole stainless steel straps are ideal for industrial applications such as petro-chemical plants, manufacturing plants, pulp and paper mills, food processing, power plants, refineries and mining operations. Steel City® stainless steel pipe straps are also useful in commercial applications in schools, hospitals, office buildings, airports, casinos and stadiums. To order, contact your local Thomas & Betts authorized distributor and ask about the complete offering of Steel City® straps, clamps and hangers.

CAT. NO.	TRADE SIZE	WT. PER 100	HOLE DIA.	STD. PKG.
One-Hole EMT Straps				
TS101-SS	½"	2.21	¼"	25
TS102-SS	¾"	2.49	¼"	25
TS103-SS	1"	3.31	¼"	25
TS104-SS	1¼"	3.64	11/16"	10
TS105-SS	1½"	3.87	11/16"	5
TS106-SS	2"	4.03	11/16"	5
One-Hole Rigid/IMC Straps				
HS100-SS	⅜"	2.00	9/32"	20
HS101-SS	½"	2.21	9/32"	20
HS102-SS	¾"	2.49	9/32"	20
HS103-SS	1"	3.48	9/32"	20
HS104-SS	1¼"	3.76	11/32"	10
HS105-SS	1 ½"	18.22	13/32"	10
HS106-SS	2"	19.69	13/32"	5
HS107-SS	2½"	67.21	15/32"	5
HS108-SS	3"	76.45	17/32"	5
HS110-SS	4"	80.18	17/32"	5

CAT. NO.	TRADE SIZE	WT. PER 100	HOLE DIA.	STD. PKG.
Two-Hole EMT Straps				
TS901-SS	½"	2.21	¼"	25
TS902-SS	¾"	3.31	¼"	25
TS903-SS	1"	3.87	¼"	25
TS904-SS	1¼"	7.54	11/16"	10
TS905-SS	1½"	12.21	11/16"	5
TS906-SS	2"	18.23	11/16"	5
Two-Hole Rigid/IMC Straps				
HS901-SS	½"	2.49	9/32"	20
HS902-SS	¾"	3.64	9/32"	20
HS903-SS	1"	4.15	9/32"	20
HS904-SS	1¼"	8.17	11/32"	10
HS905-SS	1½"	17.50	13/32"	10
HS906-SS	2"	21.37	13/32"	5
HS907-SS	2½"	21.54	15/32"	5
HS908-SS	3"	25.72	17/32"	5
HS909-SS	3½"	27.27	17/32"	5
HS910-SS	4"	31.70	17/32"	5

Reduces threaded opening in conduit bodies or any female threaded fitting!

Threaded Reducers



- Smooth, built-in bushing completely covers rough ends of conduit
- Malleable iron or steel construction (steel through 606, also 614 and 615)

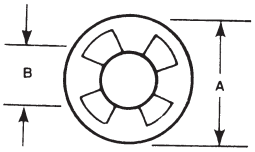
CAT. NO. STL. ON MI	CAT. NO. ALUM.	SIZE	DIMENSION (IN.) A
600TB	600ALTB	½" to ⅜"	9/16
601TB	601ALTB	¾" to ½"	9/16
602TB	602ALTB	1" to ½"	5/8
603TB	603ALTB	1" to ¾"	5/8
604TB	604ALTB	1¼" to ½"	13/16
605	605AL	1¼" to ¾"	7/8
606	606AL	1¼" to 1"	15/16
607	607AL	1½" to ½"	13/16
608	608AL	1½" to ¾"	13/16
609	609AL	1½" to 1"	15/16
610	610AL	1½" to 1¼"	¾
611	611AL	2" to ½"	15/16
612	612AL	2" to ¾"	15/16
613	613AL	2" to 1"	15/16
614	614AL	2" to 1¼"	15/16
615	615AL	2" to 1½"	7/8

UL File No. E-23018

CSA File No. 2884

Reduce knockout hole in outlet box!

Reducing Washers



- Used in pairs
- Interlock to form a rib that centers washers and conduit in knockout
- Galvanized steel construction

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B
3700	¾" to ⅜"	1⅜	45/64
3701	¾" to ½"	1⅜	7/8
3702	1" to ⅜"	1⅝	45/64
3703	1" to ½"	1⅝	7/8
3704	1" to ¾"	1⅝	1 3/32
3705	1¼" to ⅜"	2	45/64
3706	1¼" to ½"	2	7/8
3707	1¼" to ¾"	2	1 3/32
3708	1¼" to 1"	2	1 23/64
3709	1½" to ⅜"	2¼	45/64
3710	1½" to ½"	2¼	7/8
3711	1½" to ¾"	2¼	1 3/32
3712	1½" to 1"	2¼	1 23/64
3713	1½" to 1¼"	2¼	1 23/32
3714	2" to ½"	2¾	7/8
3715	2" to ¾"	2¾	1 3/32
3716	2" to 1"	2¾	1 23/64
3717	2" to 1¼"	2¾	1 23/32
3718	2" to 1½"	2¾	1 31/32

UL File No. E-13938

CSA File No. 2884

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Rigid and Intermediate Metal Conduit Fittings

For Rigid Metal Conduit and Intermediate Metal Conduit

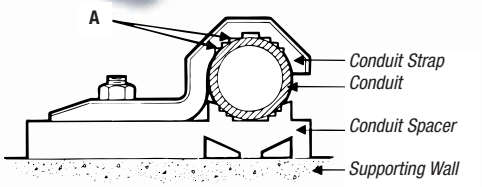
Conduit Straps

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)
- Galvanized finish 1275 Series
- Copper-free aluminum 1276AL Series



Standard Material

1275 Series . . . . . 1976AL Series
Malleable Iron . . . . . All copper-free aluminum

Standard Finish

1275 Series . . . . . 1276AL Series
Hot Dipped . . . As Cast Galvanized

Range

1275 Series . . . . . 1276AL Series
⅜" through . . . . . ½" through 6"
conduit 6" conduit

Listed/Certified by

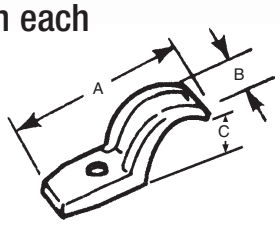
CSA (LR-2884, LR-4484)

Conforms to

CSA C22.2 No. 18
NFPA 70

Designed for snug fit on each size of conduit!

Pipe Straps — Malleable Iron or Aluminum



- High reinforcing ribs on each side increase strength and reduce weight
- Available in malleable iron with hot-dipped galvanized finish or in copper-free aluminum

CAT. NO. MAL. IRON	CAT. NO. ALUM.	SIZE	A	B	C	SCREW SIZE
1275†	1275AL	⅜"	1⅞"	1 1/16"	¾"	#12
1276†	1276AL†	½"	2 5/32"	21/32"	1 1/32"	¼"
1277†	1277AL†	¾"	2 9/16"	1 1/16"	1 7/32"	¼"
1278†	1278AL†	1"	3"	¾"	1 17/32"	¼"
1279†	1279AL†	1¼"	3¾"	13/16"	1⅞"	5/16"
1280†	1280AL	1½"	4 3/16"	15/16"	2⅛"	⅜"
1281	1281AL	2"	5 3/16"	1⅛"	2 17/64"	7/16"
1282*	1282AL	2½"	5 15/16"	1½"	2¾"	½"
1283*	1283AL	3"	6 11/16"	1⅝"	3 11/32"	½"
1284	1284AL	3½"	7 19/32"	1¾"	3 29/32"	⅝"
1285*	1285AL	4"	8 5/16"	1⅞"	4 13/32"	⅝"
1286	—	4½"	9 3/16"	1 15/16"	4 15/16"	⅝"
1287	—	5"	9 15/16"	2"	5 15/32"	⅝"
1288	—	6"	11½"	2 7/16"	6 17/32"	⅝"

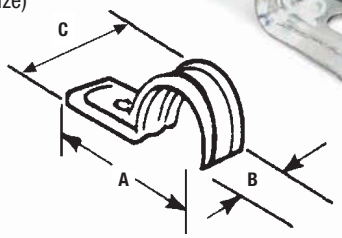
* *May be used with EMT of same size.* *UL not applicable.*

† *Not snap-on type.* *CSA File No. 2884*

Elongated bolt hole makes alignment easy, even when mounting-surface holes are off center!

Pipe Straps — Steel

- Snap-on design (except for ⅜" size)
- Rugged steel construction



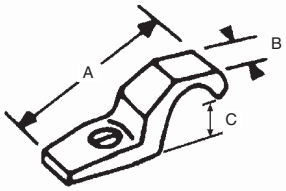
CAT. NO.	CONDUIT SIZE	A	B	C	SCREW SIZE
1210†	⅜"	1 15/32	¾	1 1/16	¼"
1211	½"	2	¾	15/16	¼"
1212	¾"	2 5/16	3¾	1"	¼"
1213	1"	3 13/16	¾	1 17/64	¼"
1214	1¼"	2 31/32	1 9/16	1 9/16	⅜"
1215	1½"	3 23/32	1 13/16	1 13/16	⅜"
1216	2"	4 7/16	2 5/16	2 5/16	⅜"

† *Not snap-on type.* *UL not applicable.* *CSA File No. 2884*

PVC coating offers high corrosion resistance!

PVC-Coated Straps for Rigid Conduit

- Designed to fit each size of conduit snugly
- High reinforcing ribs on each side increase strength and reduce weight
- Malleable iron construction



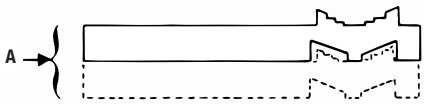
CAT. NO.	SIZE	BOLT SIZE	DIMENSIONS (IN.) A	B	C
1275CR	⅜"	¼"	1⅞	1 1/16	¾
1276CR	½"	¼"	2 5/32	21/32	1 1/32
1277CR	¾"	¼"	2 9/16	1 1/16	1 7/32
1278CR	1"	¼"	3	¾	1 17/32
1279CR	1¼"	⅜"	3¾	13/16	1⅞
1280CR	1½"	⅜"	4 3/16	15/16	2⅛
1281CR	2"	½"	5 3/16	1⅛	2 17/64

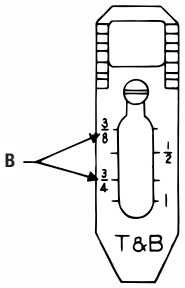
UL not applicable.

Rigid and Intermediate Metal Conduit Fittings

Conduit Spacers

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





1350 Series

1351 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 offsetting (A)
- Designed to cover wide range; marked with accurate size marking for proper positioning (B)
- Galvanized finish on 1350 Series
- Copper-free aluminum alloy, 1350AL Series

Standard Material

1350 Series. . . . . 1350AL Series

Malleable Iron. . . . . Copper-free aluminum

Standard Finish

1350 Series. . . . . 1350AL Series

Hot Dipped . . . . . As Cast Galvanized

Range

½" through 6" conduit

Listed/Certified by

CSA (LR-2884, LR-4484, LR-4484)

Conforms to

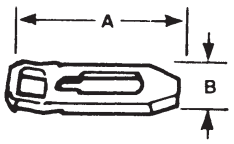
CSA C22.2 No. 18

NFPA 70

Eliminates the need for costly offset-bending conduit and the possibility of corrosive moisture traps when conduit is mounted directly to a surface!

Pipe Spacers

- Used with T&B conduit straps to provide space between conduit and mounting surface
- Premountable and stackable to eliminate offsetting
- Malleable iron construction with hot-dipped galvanized finish

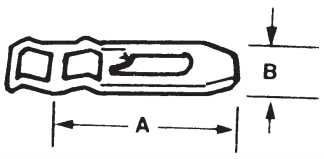


CAT. NO. MAL. IRON	CAT. NO. ALUM.	SIZE	SCREW SIZE	DIMENSIONS (IN.) A	DIMENSIONS (IN.) B
1350	1350AL	½", ¾", 1"	#7	3"	⅞"
1351	1351AL	1¼"-1½"-2"	#12	5"	1 3/16"
1352	1352AL	2½"-3"	#12	9 3/16"	1¾"
1353	1353AL	3½"-4"	#14	7 3/16"	2"
1354	—	4½"-5"-6"	#16	10 3/16"	2 3/16"

Conforms to NEC SECT. 300-5-c. UL not applicable. CSA File Nos. 2884 and 4484.

Prevents conduit rusting from wall condensation!

Pipe Spacers — PVC Coated



- Eliminates the need for offset-bending of conduit
- Can be stacked for offsets on wall or into outlet box
- Corrosion-resistant, PVC-coated malleable iron construction

CAT. NO.	CONDUIT SIZE	SCREW SIZE	DIMENSIONS (IN.) A	DIMENSIONS (IN.) B
1350CR	½"-¾"-1"	#7	3	⅞
1351CR	1¼"-1½"-2"	#12	5	⅜
1352CR	2½"-3"	#12	6 3/16	¾
1353CR	3½"-4"	#14	7 3/16	2
1354CR	4½"-5"-6"	#16	10 3/16	2 3/16

UL not applicable. Conforms to NEC SECT. 300-5-c.

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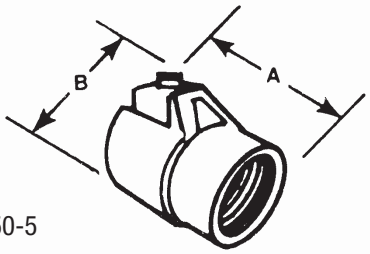
Rigid and Intermediate Metal Conduit Fittings

One-piece fitting couples armored cable or flexible conduit to threaded rigid conduit!

TITE-BITE® Combination Couplings — Armored Cable for Threaded Rigid

- Tite-Bite® wedge holds conduit securely with a double grip
- When used with a Chase® nipple, this fitting will connect flexible conduit to outlet boxes, enabling more wiring space in the box than the usual connector
- UL Listed as a grounding means under NEC 350-5
- Malleable iron construction



CAT. NO.	SIZE	DIMENSIONS (IN.) A	B
440	½"	1⅝	1²⁷⁄₃₂
441	¾"	1¾	2⅛
442	1"	2	2¹⁷⁄₃₂

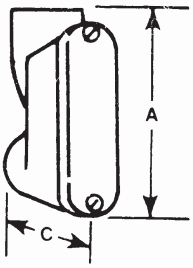
UL File No. E-23018

CSA File No. 2884

Mount flat against wall, eliminating the need to offset conduit!

Entrance Ells

- Designed for a straight pull in either direction
- Carefully bushed
- Make it easy to pull heavy wires without damage to insulation
- Made of copper-free aluminum



CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.) A	C
1490	½"	3	1¹⁹⁄₃₂
1491	¾"	3⁹⁄₁₆	1⅞
1492	1"	4¼	2²³⁄₆₄
1493	1¼"	5³¹⁄₆₄	2¹³⁄₁₆
1494	1½"	6¼	2⅞
1495	2"	6¾	3⁹⁄₁₆
1496	2½"	13³⁄₆₄	5⅛
1497	3"	13³⁄₆₄	6½
1498	3½"	16⁹⁄₃₂	7¹⁷⁄₃₂
1499	4"	16⁹⁄₃₂	7¹⁷⁄₃₂

UL File No. E-23018. *CSA File Nos. 2884 and 589*

Adjustable design fits a wide range of flange sizes!

Adjustable Beam Clamps

- Includes bolts
- Steel construction

CAT. NO.	DESCRIPTION
700TB	Fits Flange 2¾"–7⅞"
701	Fits Flange 7"–12"
703	Special Bolt and 3 Nuts

CSA File No. 2884.

Fits any flange, tapered or straight, up to ⅝" thick!

Conduit Supports

- For use with standard rigid conduit, EMT or IMC
- Broad hook holds conduit at any desired angle
- Malleable iron construction

CAT. NO.	SIZE
690	½"
691TB	¾"
692TB	1"
693TB	1¼"

CSA File No. 2884

Conduit Outlet Bodies

T&B Conduit Fittings for Ordinary and Hazardous Locations

Thomas & Betts offers a broad range of conduit bodies, conduit boxes, conduit fittings, unions, sealing fittings, drains and cable fittings for both ordinary and hazardous locations. Complete information on applications, features, materials, finishes, size range and certifications is provided in the following pages.

Conduit Bodies (for ordinary locations)

For raceway systems to provide pull outlets, 90° bends, splices, taps, mounting outlets, etc.

FORM 7 — For neat, compact installation of rigid threaded conduit.

FORM 8 — For heavier conductors using rigid threaded conduit.

Red•Dot® *Aluminum Die-Cast* — For rigid threaded conduit installation — copper-free aluminum.

Red•Dot® Thinwall *(EMT)* — For set-screw installation using thinwall conduit. (EMT) — copper-free aluminum.

Mogul *Conduit Fittings* — For larger conduits, spacious, accessible wiring chambers.

Cast Device Boxes (for ordinary locations)

For raceway systems to accommodate wiring devices, serve as pull boxes, and provide entrances for taps and splices.

FS/FD Single and Double Gang Cast Device Boxes

Cast Conduit Outlet Boxes (for hazardous locations)

Round cast outlet boxes used with rigid conduit to serve as pull and splice boxes, easy access to wiring, act as a housing for instruments, apparatus, etc.

GUA Conduit Outlet Bodies

Reducers, Plugs, Unions (for ordinary and hazardous locations)

Includes reducers for connecting conduit of dissimilar dimensions, plugs for unused conduit openings and hubs, and unions for threaded conduit systems.

RE, PLG REC Reducers, Plugs and Adapters, UNY/UNF Unions

Sealing Fittings and Drains (for ordinary and hazardous locations)

Cast fittings used with rigid conduit to seal sections from passage of vapors, flame or gases or explosions. Drains provide ventilation as a breather and as a drain in moist locations.

EYS/EYD Sealing Fittings & ECD Drains

Cable Fittings (for ordinary and hazardous locations)

For armored, metal clad, jacketed or unjacketed and unarmored cables through a bulkhead or enclosure in ordinary or hazardous areas.

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Form 7, Form 8, and Red•Dot® Conduit Outlet Bodies

Conduit Outlet Bodies

Application

Conduit Bodies are installed in conduit systems to:

- Connect conduit sections
- Act as pull outlets when conductors are being installed
- Provide easy access for splices in branch conductors
- Make 90° bends in conduit runs
- Act as mounting outlets for wiring devices and lighting fixtures
- Provide access to conductors for maintenance and future system changes

Features

- Standard features include tapered (NPT) threads and integral bushings to protect wire insulation
- T&B Form 7 bodies and covers are interchangeable with other manufacturer's Form 7 bodies and covers
- T&B Form 8 bodies and covers are interchangeable with other manufacturer's Form 8 bodies and covers
- T&B Form 7 and Form 8 bodies feature BlueKote™ internal coating for easier wire pulling

Materials

Conduit Bodies (Form 7 and Form 8) . . . . . Sand cast class 30 gray iron alloy

Red•Dot® Conduit Bodies . . . . . Die-cast aluminum, copper-free

Covers . . . . . Sand cast gray iron alloy, and stamped sheet steel-stainless steel screws

Gaskets . . . . . Neoprene

Finish

Conduit Bodies . . . . . Zinc-plating with an aluminum acrylic coating; Form 7 and Form 8 bodies . . . . . Internal Teflon®-based BlueKote™ coating*

Covers . . . . . Gray iron zinc-plating with an aluminum acrylic coating, and stamped steel zinc-plating with a clear chromate coating; Form 7 and Form 8 covers include integral neoprene gasket

Compliances

UL Standard: 514A, 514B

Fed. Spec: W-C-586D

CSA Standard: C22.2 No. 18

**Teflon® is a registered trademark of DuPont.*

Form 7, Form 8 and Red•Dot® Conduit Outlet Bodies

Threaded Rigid Bodies

	SHAPE	HUB SIZE (IN.)									
		½	¾	1	1¼	1½	2	2½*	3*	3½*	4*
	LB	Form 7 BlueKote™	LB17	LB27	LB37	LB47	LB57	LB67	LB77	LB87	LB97	LB107
		Form 8** BlueKote™	LB18	LB28	LB38	LB448	LB58	LB68	LB78	LB888	LB98	LB108
		Series 35	LB50M	LB75M-TB	LB100M	LB125M	LB150M	LB200M	LB250M	LB300M	LB350M	LB400M
		Threaded Aluminum	ALB1	ALB2	ALB3	ALB4	ALB5	ALB6	ALB7	ALB8	ALB9	ALB10
		EMT Aluminum	BLB1	BLB2	BLB3	BLB4	BLB5	BLB6	BLB7	BLB8	BLB9	BLB10
	T	Form 7 BlueKote™	T17	T27	T37	T47	T57	T67	T77	T87	T97	T107
		Form 8** BlueKote™	T18	T28	T38-TB	T448	T58	T68	T78	T88-TB		
		Series 35	T50M	T75M	T100M	T125M	T150M	T200M	T250M	T300M	T350M	T400M
		Threaded Aluminum	AT1	AT2	AT3	AT4	AT5	AT6	AT7	AT8	AT9	AT10
		EMT Aluminum	BT1	BT2	BT3	BT4	BT5	BT6	—	—	—	—
	C	Form 7 BlueKote™	C17	C27	C37	C47	C57	C67	C77-TB	C87	—	—
		Form 8** BlueKote™	C18	C28	C38	C448	C58-TB	C68	C78	C88	—	—
		Series 35	C50M	C75M-TB	C100M	C125M	C150M	C200M	C250M-TB	C300M	C350M	C400M
		Threaded Aluminum	AC1	AC2	AC3	AC4	AC5	AC6	AC7	AC8	AC9	AC10
		EMT Aluminum	BC1	BC2	BC3	BC4	BC5	BC6	—	—	—	—
	LL	Form 7 BlueKote™	LL17	LL27	LL37	LL47	LL57	LL67	LL77	LL87	LL97	LL107
		Form 8** BlueKote™	LL18	LL28	LL38	LL448	LL58	LL68	LL78	LL888		
		Series 35	LL50M	LL75M	LL100M	LL125M	LL150M	LL200M	LL250M	LL300M	LL350M	LL400M
		Threaded Aluminum	ALL1	ALL2	ALL3	ALL4	ALL5	ALL6	ALL7	ALL8	ALL9	ALL10
		EMT Aluminum	BLL1	BLL2	BLL3	BLL4	—	—	—	—	—	—
	LR	Form 7 BlueKote™	LR17	LR27	LR37	LR47	LR57	LR67	LR77	LR87	LR97	LR107
		Form 8** BlueKote™	LR18	LR28	LR38	LR448	LR58	LR68	LR78	LR888	—	—
		Series 35	LR50M	LR75M	LR100M	LR125M	LR150M	LR200M	LR250M	LR300M	LR350M-TB	LR400M
		Threaded Aluminum	ALR1	ALR2	ALR3	ALR4	ALR5	ALR6	ALR7	ALR8	ALR9	ALR10
		EMT Aluminum	BLR1	BLR2	BLR3	BLR4	—	—	—	—	—	—
	X	Form 7 BlueKote™	X17	X27	X37	X47	X57	X67	—	—	—	—
		Form 8** BlueKote™	X18	X28	X38	X448	X58	X68	—	—	—	—
		Series 35	X50M	X75M	X100M	X125M	X150M	X200M	—	—	—	—
	*L	Form 7 BlueKote™	L17-TB	L27-TB	L37-TB	L47-TB	L57-TB	L67-TB	—	—	—	—
		Threaded Aluminum	ALRL1	ALRL2	ALRL3	ALRL4	ALRL5	ALRL6	—	—	—	—
		EMT Aluminum	BLRL1	BLRL2	BLRL3	BLRL4	BLRL5	BLRL6	—	—	—	—
	E	Form 7 BlueKote™	E17	E27	E27	—	—	—	—	—	—	—
		Threaded Aluminum	AE1	AE2	AE3	—	—	—	—	—	—	—
	TA	Form 7 BlueKote™	TA17	TA27	TA37	TA47	TA57	TA67	—	—	—	—
	TB	Form 7 BlueKote™	TB17-TB	TB27	TB37	TB47	TB57	TB67	—	—	—	—
		Form 8 BlueKote™	TB18	TB28	TB38	TB44 8	TB58	TB68	—	—	—	—
		Series 35	TB50M	TB75M	TB100M	TB125M	TB150M	TB200M	—	—	—	—

*Aluminum conduit bodies (A and B series) furnished with one stamped steel cover

** ½" through 1¼" have (2) mounting holes
1½" through 4" have (4) mounting holes

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Form 7, Form 8, and Red•Dot® Conduit Outlet Bodies

Covers and Gaskets

Stamped Steel

SHAPE	HUB SIZE (IN.)	½	¾	1	1¼	1½	2	2½	3	3½	4
	Form 7*	170S	270S	370S	470S	570S	670S	870S	870S	970S	970S
	Form 8*	180	280	380	480	580	680	880	880	980	980
	Red•Dot®	SCV1	SCV2	SCV3	SCV4	SCV4	SCV5	CV6	CV6	CV7	CV7
	Series 35	GK50N	GK75N	GK100N	GK125-150N	GK125-150N	GK200N	GK250-300N	GK250-300N	GK350-400N	GK350-400N

** Form 7 and Form 8 covers include integral gasket.*

Gray Iron

SHAPE	HUB SIZE (IN.)	½	¾	1	1¼	1½	2	2½	3	3½	4
	Form 7*	170F	270F	370F	470F	570F	670F	870F	870F	970F	970F
	Form 8*	180F	280F	380F	480F	580F	680F	880F	880F	980F	980F
	Series 35	K50M	K75M	K100M	K125M	K125M	K200M	K250M	K250M	K350M	K350M

** Form 7 and Form 8 covers include integral gasket.*

Gasket

SHAPE	HUB SIZE (IN.)	½	¾	1	1¼	1½	2	2½	3	3½	4
	Form 7*	GASK 571	GASK 572	GASK 573	GASK 574	GASK 575	GASK 576	GASK 578	GASK 578	GASK 579	GASK 579
	Form 8*	GASK 581N	GASK 582N	GASK 583N	GASK 584N	GASK 585N	GASK 586N	GASK 588N	GASK 588N	GASK 589N	GASK 589N
	Red•Dot®	GKN1	GKN2	GKN3	GKN4	GKN4	GKN5	GKN6	GKN6	GKN7	GKN7
	Series 35	K50S	K75S	K100S	K125S	—	K200S	K250S	—	K350S	—

** For ordering purposes, please use GASK in the catalog number (Example: GASK 571).*

Form 7, Form 8, and Red•Dot® Conduit Outlet Bodies

Form 7 Body, Gasket and Cover — One Number!

NEW!

Pre-Assembled Form 7 BlueKote™ Conduit Bodies, Gaskets and Covers

Now you can order a conduit body, gasket and cover, pre-assembled, using one catalog number. T&B's pre-assembled cast conduit bodies help reduce transactions, eliminate the need for additional stocking bins and provide an easy inventory reduction. You'll also have less hassle with managing small parts in the truck or crib. Best of all, you can be absolutely confident that the right parts are in your hands when you need them.

T&B® Conduit Bodies and Covers Feature:

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

Specifications

- Bodies: Class 30 gray iron alloy
- Covers: Stamped steel with stainless steel screws
- Gaskets: Neoprene
- Finish: Conduit Bodies: Zinc-plating with acrylic epoxy coating and internal Teflon®-based BlueKote™ coating
- Covers: Stamped steel zinc-plating with a clear chromate coating
- Compliances: UL Standard: 514A, 514B Fed. Spec:W-C-586D
- CSA Standard: C22.2 No. 18

Crouse-Hinds is a trademark of Cooper Industries, Inc. Appleton is a trademark of the EGS Electrical Group, a joint venture of Emerson and SPX Corp. Teflon® is a registered trademark of DuPont.

T&B® Pre-Assembled Bodies, Gaskets and Covers

CAT. NO.	TRADE SIZE	PRE-ASSEMBLED PRODUCTS
C17CG-TB	½"	C17 Body, Cover & Gasket
C27CG-TB	¾"	C27 Body, Cover & Gasket
C37CG-TB	1"	C37 Body, Cover & Gasket
C47CG-TB	1¼"	C47 Body, Cover & Gasket
C57CG-TB	1½"	C57 Body, Cover & Gasket
C67CG-TB	2"	C67 Body, Cover & Gasket
LB17CG-TB	½"	LB17 Body, Cover & Gasket
LB27CG-TB	¾"	LB27 Body, Cover & Gasket
LB37CG-TB	1"	LB37 Body, Cover & Gasket
LB47CG-TB	1¼"	LB47 Body, Cover & Gasket
LB57CG-TB	1½"	LB57 Body, Cover & Gasket
LB67CG-TB	2"	LB67 Body, Cover & Gasket
LL17CG-TB	½"	LL17 Body, Cover & Gasket
LL27CG-TB	¾"	LL27 Body, Cover & Gasket
LL37CG-TB	1"	LL37 Body, Cover & Gasket
LL47CG-TB	1¼"	LL47 Body, Cover & Gasket
LL57CG-TB	1½"	LL57 Body, Cover & Gasket
LL67CG-TB	2"	LL67 Body, Cover & Gasket
LR17CG-TB	½"	LR17 Body, Cover & Gasket
LR27CG-TB	¾"	LR27 Body, Cover & Gasket
LR37CG-TB	1"	LR37 Body, Cover & Gasket
LR47CG-TB	1¼"	LR47 Body, Cover & Gasket
LR57CG-TB	1½"	LR57 Body, Cover & Gasket
LR67CG-TB	2"	LR67 Body, Cover & Gasket
T17CG-TB	½"	T17 Body, Cover & Gasket
T27CG-TB	¾"	T27 Body, Cover & Gasket
T37CG-TB	1"	T37 Body, Cover & Gasket
T47CG-TB	1¼"	T47 Body, Cover & Gasket
T57CG-TB	1½"	T57 Body, Cover & Gasket
T67CG-TB	2"	T67 Body, Cover & Gasket
TB17CG-TB	½"	TB17 Body, Cover & Gasket
TB27CG-TB	¾"	TB27 Body, Cover & Gasket
TB37CG-TB	1"	TB37 Body, Cover & Gasket
TB47CG-TB	1¼"	TB47 Body, Cover & Gasket
TB57CG-TB	1½"	TB57 Body, Cover & Gasket
TB67CG-TB	2"	TB67 Body, Cover & Gasket
X17CG-TB	½"	X17 Body, Cover & Gasket
X27CG-TB	¾"	X27 Body, Cover & Gasket
X37CG-TB	1"	X37 Body, Cover & Gasket
X47CG-TB	1¼"	X47 Body, Cover & Gasket
X57CG-TB	1½"	X57 Body, Cover & Gasket
X67CG-TB	2"	X67 Body, Cover & Gasket

For aluminum conduit bodies pre-assembled with covers and gaskets, request Red•Dot® D-PAK™ Series Conduit Bodies for rigid and IMC conduit.

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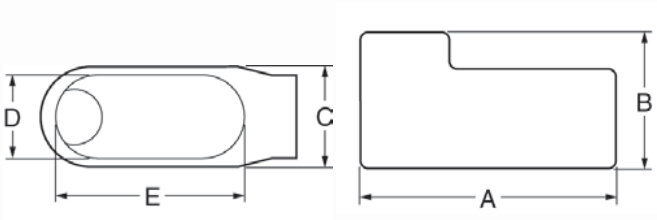
Form 7, Form 8 and Red•Dot® Conduit Outlet Bodies

BlueKote™ internal finish reduces the amount of force necessary to pull wires through T&B Form 7 and Form 8 conduit bodies.



LB Form 7 and Form 8

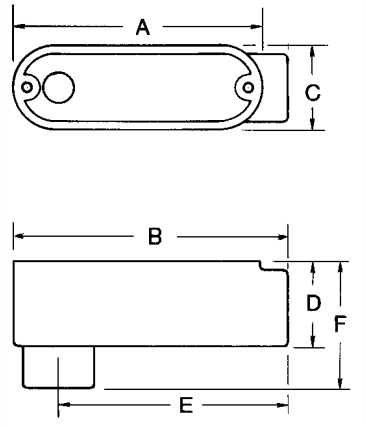
LB Form 7 BlueKote™

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
LB17	½"	4.60	2.20	1.35	.95	3.20	4.0
LB27	¾"	5.25	2.40	1.65	1.15	3.80	6.6
LB37	1"	6.00	2.65	1.80	1.35	4.55	10.6
LB47	1¼"	6.45	3.20	2.20	1.80	5.00	18.8
LB57	1½"	7.25	3.90	2.45	2.05	5.45	26.4
LB67	2"	8.30	4.45	3.10	2.45	6.40	51.0
LB77	2½"	10.55	5.20	4.25	3.60	8.40	102.0
LB87	3"	10.55	5.95	4.25	3.60	8.40	132.0
LB97	3½"	12.85	6.70	5.25	4.55	10.25	210.0
LB107	4"	12.85	7.20	5.25	4.55	10.25	243.0

LB Form 8 BlueKote™

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
LB18	½"	4 15/16	2.219	1⅜	1	3 5/16	4.9
LB28	¾"	5 9/16	2.438	1 9/16	1 3/16	3 5/16	8.0
LB38	1"	6½	2.813	1¾	1⅜	4 9/16	13.0
LB448	1¼"	7 17/32	3 11/32	2 3/16	1¾	5 5/16	23.5
LB58	1½"	9⅛	4 1/32	2¾	2⅛	6½	45.0
LB68	2"	11	4 13/32	3¾	3	8 9/16	88.0
LB78	2½"	13 15/16	6⅛	5	4¼	10⅞	110.0
LB888	3"	13 15/16	6½	5	4¼	10⅞	110.0
LB98	3½"	16⅞	7 9/16	6¼	5 7/16	13 7/16	250.0
LB108	4"	16⅞	7 13/16	6¼	5 7/16	13 7/16	250.0

LB Threaded Aluminum



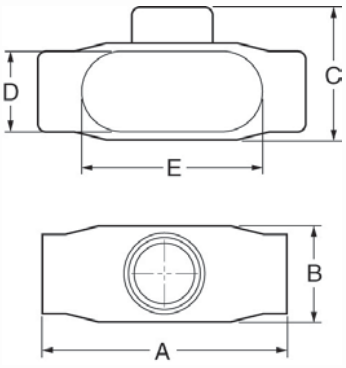
LB Threaded Aluminum and EMT Aluminum

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	CI
ALB1	½"	3⅜	4 9/32	1 5/16	1 1/16	3½	2 1/16	4.3
ALB2	¾"	4⅝	5⅛	1 17/32	1⅝	4¼	2 7/16	7.3
ALB3	1"	5⅜	5 15/16	1¾	17⅞	4 15/16	2¾	11.8
ALB4	1¼"	7¼	7⅞	2½	2½	6½	3 9/16	32.0
ALB5	1½"	7¼	7⅞	2½	2¾	6 5/16	3 13/16	32.0
ALB6	2"	9½	9 13/16	3⅛	3 7/16	8	4½	69.5
ALB7	2½"	12¼	13	4½	3⅜	10 27/32	5¼	190.0
ALB8	3"	12¼	13	4½	4½	10½	5⅞	190.0
ALB9	3½"	15	16 5/16	5½	5 9/16	13½	6 15/16	366.0
ALB10	4"	15	16 5/16	5½	5 9/16	13½	6 15/16	366.0

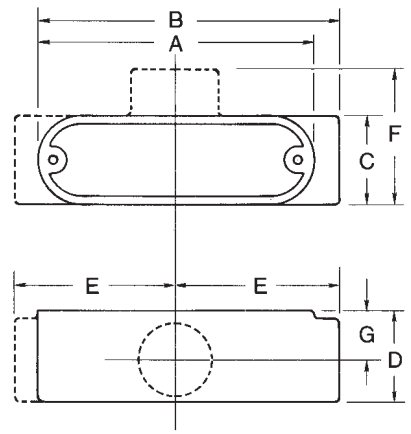
LB EMT Aluminum

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	CI
BLB1	½"	3⅜	4s	1 5/16	1 1/16	3½	2 1/16	4.3
BLB2	¾"	4⅝	5⅛	1w	1⅝	4¼	2 7/16	7.3
BLB3	1"	5⅜	5 15/16	1¾	17⅞	4 15/16	2¾	11.8
BLB4	1¼"	7¼	7⅞	2½	2½	6½	3 9/16	32.0
BLB5	1½"	7¼	7⅞	2½	2¾	6 5/16	3 13/16	32.0
BLB6	2"	9½	9 13/16	3⅛	3 7/16	8	4½	69.5
BLB7	2½"	12¼	13	4½	3⅜	10 27/32	5¼	190.0
BLB8	3"	12¼	13	4½	4½	10½	5⅞	190.0
BLB9	3½"	15	16 5/16	5½	5 9/16	13½	6 15/16	366.0
BLB10	4"	15	16 5/16	5½	5 9/16	13½	6 15/16	366.0

Form 7, Form 8, and Red•Dot® Conduit Outlet Bodies



T Form 7 and Form 8



T Threaded Aluminum and EMT Aluminum

T Form 7 BlueKote™

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	CI
T17	½	5.60	1.80	2.35	.95	3.20	6.0
T27	¾	6.20	2.00	2.60	1.15	3.80	9.1
T37	1	7.35	2.30	3.10	1.35	4.55	16.9
T47	1¼	7.30	2.30	3.05	1.80	5.00	19.3
T57	1½	8.60	2.60	3.80	2.05	5.45	27.5
T67	2	9.50	3.20	4.25	2.45	6.40	50.0
T77	2½	12.10	3.65	5.80	3.60	8.40	102.0
T87	3	12.10	4.40	5.80	3.60	8.40	132.0
T97	3½	14.65	4.90	7.05	4.55	10.25	210.0
T107	4	14.65	5.40	7.05	4.55	10.25	243.0

T Form 8 BlueKote™

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	CI
T18	½	5 1/16	1¾	2 5/32	1	3 3/16	6.0
T28	¾	6 9/32	2	2 5/16	1 3/16	3 15/16	9.0
T38-TB	1	7 5/16	2¼	2⅝	1⅜	4 9/16	15.0
T448	1¼	8½	2⅝	3 5/32	1¾	5 5/16	24.0
T58	1½	10⅜	2 25/32	4	2⅛	6½	46.5
T68	2	12¼	3 9/16	5	3	8 9/16	88.0
T78	2½	15⅝	4 7/16	6 1/16	4¼	10⅞	110.0
T88-TB	3	15⅝	4 13/16	6 1/16	4¼	10⅞	110.0

T Threaded Aluminum

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	F	G	CI
AT1	½	3⅞	4⅜	1 21/64	1⅜	2 13/32	2 1/16	13/16	4.3
AT2	¾	4⅝	5⅛	1 17/32	1⅝	2 25/32	2 19/32	15/16	7.3
AT3	1	5⅜	5 15/16	1¾	1⅞	3¼	2⅝	1	11.8
AT4	1¼	7¼	7⅞	2½	2½	4 3/16	3 17/32	1⅜	32.0
AT5	1½	7¼	7⅞	2½	2¾	4 3/16	3 17/32	1½	32.0
AT6	2	9½	10 3/16	3⅜	3 3/16	5 13/32	4	10	69.5
AT7	2½	12¼	13	4½	4½	6⅞	5 25/32	2 7/16	190.0
AT8	3	12¼	13	4½	4½	6⅞	5 25/32	2 7/16	190.0
AT9	3½	15	16 5/16	5½	5 9/16	8 13/16	6 13/16	3	366.0
AT10	4	15	16 5/16	5½	5 9/16	8 13/16	6 13/16	3	366.0

T EMT Aluminum

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	F	G	CI
BT1	½	3⅞	4⅜	1 21/64	1⅜	2 13/32	2 1/16	13/16	4.3
BT2	¾	4⅝	5⅛	1 17/32	1⅝	2 25/32	2 19/32	15/16	7.3
BT3	1	5⅜	5 15/16	1¾	1⅞	3¼	2⅝	1	11.8
BT4	1¼	7¼	7⅞	2½	2½	4 3/16	3 17/32	1⅜	32.0
BT5	1½	7¼	7⅞	2½	2¾	4 3/16	3 17/32	1½	32.0
BT6	2	9½	10 3/16	3⅜	3 3/16	5 13/32	4	10	69.5

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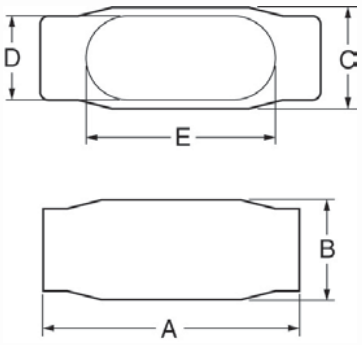
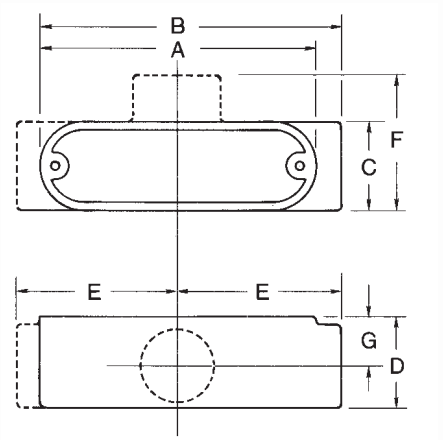
Form 7, Form 8, and Red•Dot® Conduit Outlet Bodies



C Form 7 and Form 8



T Threaded Aluminum and EMT Aluminum

C Form 7 BlueKote™

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	CI
C17	½	5.45	1.40	1.45	.95	3.20	4.0
C27	¾	6.05	1.60	1.65	1.15	3.80	6.6
C37	1	6.75	1.90	1.80	1.35	4.55	10.6
C47	1¼	7.30	2.30	2.20	1.80	5.00	18.8
C57	1½	8.60	2.60	2.45	2.05	5.45	26.4
C67	2	9.50	3.20	3.05	2.45	6.40	51.0
C77-TB	2½	12.10	3.65	4.25	3.60	8.40	102.0
C87	3	12.10	4.40	4.25	3.60	8.40	132.0

C Form 8 BlueKote™

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	CI
C18	½	5 17/32	1 7/16	1⅜	1	3 5/16	4.9
C28	¾	6 9/32	1 17/32	1 13/16	1 13/16	3 15/16	8.0
C38	1	7 5/16	1 15/16	1¾	1⅞	4 9/16	13.0
C448	1¼	8½	2⅜	2 5/16	1¾	5 5/16	23.5
C58-TB	1½	10⅜	2 25/32	2¾	2⅛	6½	45.0
C68	2	12¼	3 3/16	3¾	3	8 9/16	88.0
C78	2½	15⅝	4 1/16	5	4¼	10⅞	110.0
C88	3	15⅝	4 13/16	5	4¼	10⅞	110.0

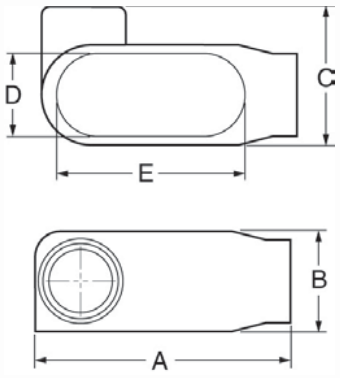
C Threaded Aluminum

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	F	G	CI
AC1	½	3⅜	4⅜	1 21/64	1⅜	2 13/32	2 1/16	13/16	4.3
AC2	¾	4⅝	5⅛	1 17/32	1⅝	2 25/32	2 19/32	15/16	7.3
AC3	1	5⅜	5 15/16	1¾	1⅞	3¼	2⅝	1	11.8
AC4	1¼	7¼	7⅞	2½	2½	4 3/16	3 17/32	1⅜	32.0
AC5	1½	7¼	7⅞	2½	2¾	4 3/16	3 17/32	1½	32.0
AC6	2	9½	10 3/16	3⅛	3 3/16	5 13/32	4	10	69.5
AC7	2½	12¼	13	4½	4½	6⅞	5 25/32	2 7/16	190.0
AC8	3	12¼	13	4½	4½	6⅞	5 25/32	2 7/16	190.0
AC9	3½	15	16 5/16	5½	5 5/16	8 13/16	6 13/16	3	366.0
AC10	4	15	16 5/16	5½	5 5/16	8 13/16	6 13/16	3	366.0

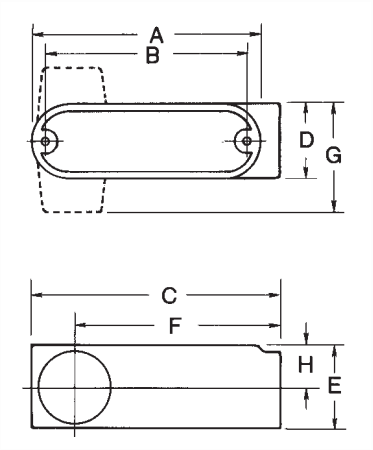
C EMT Aluminum

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	F	G	CI
BC1	½	3⅜	4⅜	1 21/64	1⅜	2 13/32	2 1/16	13/16	4.3
BC2	¾	4⅝	5⅛	1 17/32	1⅝	2 25/32	2 19/32	15/16	7.3
BC3	1	5⅜	5 15/16	1¾	1⅞	3¼	2⅝	1	11.8
BC4	1¼	7¼	7⅞	2½	2½	4 3/16	3 17/32	1⅜	32.0
BC5	1½	7¼	7⅞	2½	2¾	4 3/16	3 17/32	1½	32.0
BC6	2	9½	10 3/16	3⅛	3 3/16	5 13/32	4	10	69.5

Form 7, Form 8 and Red•Dot® Conduit Outlet Bodies



LL Form 7 and Form 8



LL Threaded Aluminum and EMT Aluminum

LL Form 7 BlueKote™

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	CI
LL17	½	4.60	1.40	1.45	.95	3.20	4.0
LL27	¾	5.25	1.60	1.65	1.15	3.80	6.6
LL37	1	6.00	1.90	2.60	1.35	4.55	10.6
LL47	1¼	6.45	2.30	3.05	1.80	5.00	18.6
LL57	1½	7.90	2.60	3.80	2.05	5.45	26.4
LL67	2	8.30	3.20	4.25	2.45	6.40	51.0
LL77	2½	10.55	3.65	5.80	3.60	8.40	102.0
LL87	3	10.55	4.40	5.80	3.60	8.40	132.0
LL97	3½	12.85	4.90	7.03	4.55	10.25	210.0
LL107	4	12.85	5.40	7.03	4.55	10.25	243.0

LL Form 8 BlueKote™

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	CI
LL18	½	4 15/16	1 1/16	2 5/32	1	3 5/16	4.9
LL28	¾	5 9/16	1 11/16	2 5/16	1 3/16	3 15/16	8.0
LL38	1	6 15/32	1 15/16	2 5/8	1 3/8	4 9/16	13.0
LL448	1¼	7 17/32	2 3/8	3 5/32	1 3/4	5 5/16	23.5
LL58	1½	9 1/8	2 25/32	4	2 1/8	6 1/2	45.0
LL68	2	11	3 9/16	5	3	8 9/16	88.0
LL78	2½	13 15/16	4 7/16	6 1/16	4 1/4	10 7/8	110.0
LL888	3	13 15/16	4 13/16	6 1/16	4 1/4	10 7/8	110.0

LL Threaded Aluminum

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI	CI*
ALL1	½	3 3/8	3 1/2	4 5/16	1 5/16	1 3/8	3 9/16	2	25/32	4.3	4.8
ALL2	¾	4 5/8	4 1/8	5 1/8	1 17/32	1 5/8	4 1/8	2 5/16	1/8	7.3	7.5
ALL3	1	5 3/8	4 7/8	5 9/16	1 3/4	1 7/8	4 7/8	2 1/2	1	11.8	12.5
ALL4	1¼	7 1/4	6 1/2	7 7/8	2 1/2	2 3/4	6 5/16	3 3/8	1 1/2	32.0	36.5
ALL5	1½	7 1/4	6 1/2	7 7/8	2 1/2	2 3/4	6 5/16	3 3/8	1 1/2	32.0	36.5
ALL6	2	9 1/2	8 9/16	10 3/16	3 3/8	3 7/16	8 3/16	3 15/16	1 15/16	69.5	73.8
ALL7	2½	12 1/4	11 1/4	13	4 1/2	4 1/2	10 1/4	5 1/2	2 1/8	190.0	
ALL8	3	12 1/4	11 1/4	13	4 1/2	4 1/2	10 1/4	5 1/2	2 1/8	190.0	
ALL9	3½	15	14 7/16	16 1/4	5 1/2	5 1/2	12 3/4	6 1/2	3	366.0	
ALL10	4	15	14 7/16	16 1/4	5 1/2	5 1/2	12 3/4	6 1/2	3	366.0	

**LRL Style Only*

LL EMT Aluminum

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI	CI*
BLL1	½	3 3/8	3 1/2	4 5/16	1 5/16	1 3/8	3 9/16	2	25/32	4.3	4.8
BLL2	¾	4 5/8	4 1/8	5 1/8	1 17/32	1 5/8	4 1/8	2 5/16	1/8	7.3	7.5
BLL3	1	5 3/8	4 7/8	5 9/16	1 3/4	1 7/8	4 7/8	2 1/2	1	11.8	12.5
BLL4	1¼	7 1/4	6 1/2	7 7/8	2 1/2	2 3/4	6 5/16	3 3/8	1 1/2	32.0	36.5

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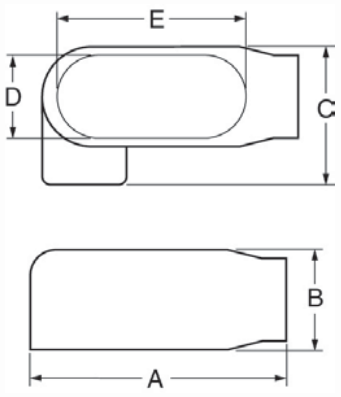
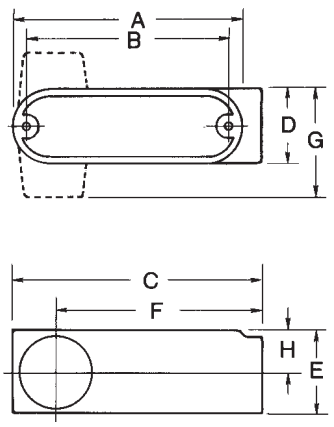


LR Form 7 and Form 8



LR Threaded Aluminum and EMT Aluminum

LR Form 7 BlueKote™

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	CI
LR17	½	4.60	1.40	1.45	.95	3.20	4.0
LR27	¾	5.25	1.60	1.65	1.15	3.80	6.6
LR37	1	6.00	1.90	2.60	1.35	4.55	10.6
LR47	1¼	6.45	2.30	3.05	1.80	5.00	18.8
LR57	1½	7.90	2.60	3.80	2.05	5.45	26.4
LR67	2	8.30	3.20	4.25	2.45	6.40	51.0
LR77	2½	10.55	3.65	5.80	3.60	8.40	102.0
LR87	3	10.55	4.40	5.80	3.60	8.40	132.0
LR97	3½	12.85	4.90	7.03	4.55	10.25	210.0
LR107	4	12.85	5.40	7.03	4.55	10.25	243.0

LR Form 8 BlueKote™

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	CI
LR18	½	4 15/16	1 7/16	2 5/32	1	3 5/16	4.4
LR28	¾	5 9/16	1 11/16	2 5/16	1 3/16	3 15/16	8.0
LR38	1	6 15/32	1 15/16	2 5/8	1 3/8	4 9/16	13.0
LR448	1¼	7 17/32	2 5/8	3 5/32	1 3/4	5 5/16	23.6
LR58	1½	9 1/8	2 25/32	4	2 1/8	6 1/2	45.0
LR68	2	11	3 3/16	5	3	8 9/16	88.0
LR78	2½	13 15/16	4 7/16	6 1/16	4 1/4	10 7/8	110.0
LR888	3	13 15/16	4 13/16	6 1/16	4 1/4	10 7/8	110.0

LR Threaded Aluminum

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI	CI*
ALR1	½	3 3/8	3 1/2	4 5/16	1 5/16	1 3/8	3 3/16	2	25/32	4.3	4.8
ALR2	¾	4 3/8	4 1/8	5 1/8	1 17/32	1 5/8	4 1/8	2 5/16	7/8	7.3	7.5
ALR3	1	5 3/8	4 7/8	5 5/16	1 3/4	1 7/8	4 7/8	2 1/2	1	11.8	12.5
ALR4	1¼	7 1/4	6 1/2	7 1/8	2 1/2	2 3/4	6 5/16	3 3/8	1 1/2	32.0	36.5
ALR5	1½	7 1/4	6 1/2	7 1/8	2 1/2	2 3/4	6 5/16	3 3/8	1 1/2	32.0	36.5
ALR6	2	9 1/2	8 3/16	10 3/16	3 3/8	3 7/16	8 3/16	3 15/16	1 15/16	69.5	73.8
ALR7	2½	12 1/4	11 1/4	13	4 1/2	4 1/2	10 1/4	5 1/2	2 1/8	190.0	
ALR8	3	12 1/4	11 1/4	13	4 1/2	4 1/2	10 1/4	5 1/2	2 1/8	190.0	
ALR9	3½	15	14 7/16	16 1/4	5 1/2	5 1/2	12 3/4	6 1/2	3	366.0	
ALR10	4	15	14 7/16	16 1/4	5 1/2	5 1/2	12 3/4	6 1/2	3	366.0	

**LRL Style Only*

LR EMT Aluminum

CAT. NO.	SIZE (IN.)	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI	CI*
BLR1	½	3 3/8	3 1/2	4 5/16	1 5/16	1 3/8	3 3/16	2	25/32	4.3	4.8
BLR2	¾	4 3/8	4 1/8	5 1/8	1 17/32	1 5/8	4 1/8	2 5/16	7/8	7.3	7.5
BLR3	1	5 3/8	4 7/8	5 5/16	1 3/4	1 7/8	4 7/8	2 1/2	1	11.8	12.5
BLR4	1¼	7 1/4	6 1/2	7 1/8	2 1/2	2 3/4	6 5/16	3 3/8	1 1/2	32.0	36.5

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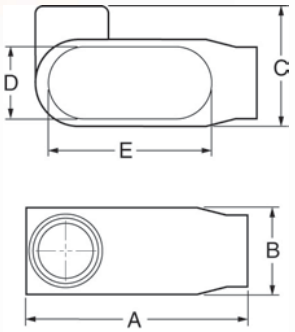
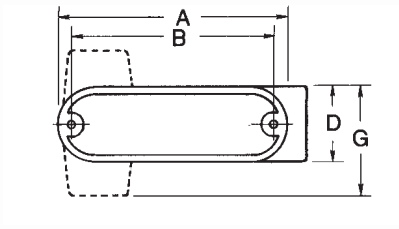
Form 7, Form 8 and Red•Dot® Conduit Outlet Bodies



L Form 7

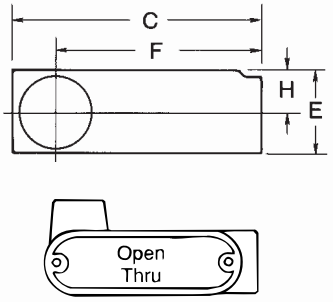
L Form 7 BlueKote™

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E
L17-TB	½	4.60	1.40	1.45	.95	3.20
L27-TB	¾	5.25	1.60	1.65	1.15	3.80
L37-TB	1	6.00	1.90	2.60	1.35	4.55
L47-TB	1¼	6.45	2.30	3.05	1.80	5.00
L57-TB	1½	7.90	2.60	3.80	2.05	5.45
L67-TB	2	8.30	3.20	4.25	2.45	6.40



L Threaded Aluminum

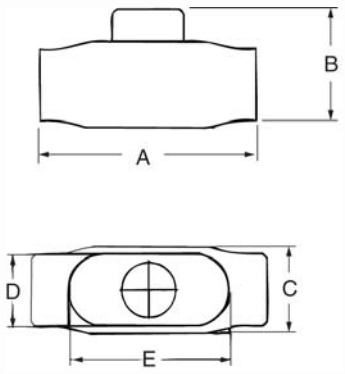
CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI	LRL STYLE ONLY CI
ALRL1	½	3⅜	3½	4⅝	1⅝	1⅜	3⅜	2	A	4.3	4.8
ALRL2	¾	4⅝	4⅛	5⅛	1 17/32	1⅝	4⅛	2 5/16	⅞	7.3	7.5
ALRL3	1	5⅜	4⅞	5 5/16	1¾	1⅞	4⅞	2½	1	11.8	12.5
ALRL4	1¼	7¼	6½	7⅞	2½	2¾	6 5/16	3⅜	1½	32.0	36.5
ALRL5	1½	7¼	6½	7⅞	2½	2¾	6 5/16	3⅜	1½	32.0	36.5
ALRL6	2	9½	8 9/16	10 3/16	3⅛	3 7/16	8 3/16	3 15/16	1 15/16	69.5	73.8



LRL Threaded Aluminum and EMT Aluminum

L EMT Aluminum

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI	LRL STYLE ONLY CI
BLRL1	½	3⅜	3½	4⅝	1⅝	1⅜	3⅜	2	25/32	4.3	4.8
BLRL2	¾	4⅝	4⅛	5⅛	1 17/32	1⅝	4⅛	2 5/16	⅞	7.3	7.5
BLRL3	1	5⅜	4⅞	5 5/16	1¾	1⅞	4⅞	2½	1	11.8	12.5
BLRL4	1¼	7¼	6½	7⅞	2½	2¾	6 5/16	3⅜	1½	32.0	36.5
BLRL5	1½	7¼	6½	7⅞	2½	2¾	6 5/16	3⅜	1½	32.0	36.5
BLRL6	2	9½	8 9/16	10 3/16	3⅛	3 7/16	8 3/16	3 15/16	1 15/16	69.5	73.8



TB Form 8

TB Form 8 BlueKote™

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
TB18	½	5 1/16	2⅝	1⅜	1	3 5/16	6.0
TB28	¾	6 3/32	2⅞	1 3/16	1 3/16	3 15/16	9.0
TB38	1	7 5/16	3¼	1¾	1⅜	4 9/16	15.0
TB448	1¼	8½	3 5/16	2 3/16	1¾	5 5/16	24.0
TB58	1½	10⅜	3 1/16	2¾	2⅛	6½	46.5
TB68	2	12¼	4¼	3¾	3	8 9/16	88.0

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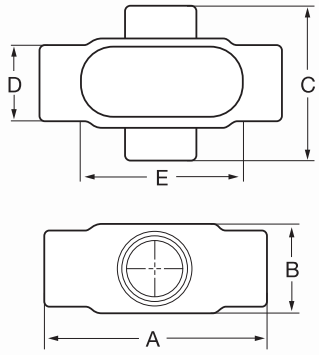


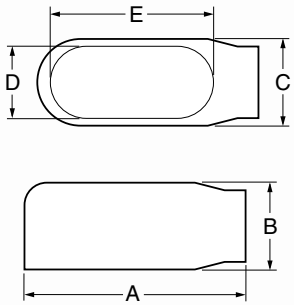
X Form 7 and Form 8

X Form 7 BlueKote™

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
X17	½	5.60	1.80	3.05	.95	3.20	6.0
X27	¾	6.20	2.00	3.30	1.15	3.80	9.1
X37	1	7.35	2.30	3.80	1.35	4.55	16.9
X47	1¼	7.30	2.30	3.85	1.80	5.00	19.3
X57	1½	8.60	2.60	5.05	2.05	5.45	27.5
X67	2	9.50	3.20	5.45	2.45	6.40	52.8

X Form 8 BlueKote™

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
X18	½	5 11/16	1¾	2 29/32	1	3 5/16	6.0
X28	¾	6 9/32	2	3 1/16	1⅜	3 15/16	9.0
X38	1	7 5/16	2¼	3½	1⅜	4 9/16	15.0
X448	1¼	8½	2⅝	4⅛	1¾	5 5/16	24.0
X58	1½	10⅜	2 15/32	5¼	2⅛	6½	46.5
X68	2	12¼	3 9/16	6¼	3	8 9/16	88.0



E Form 7

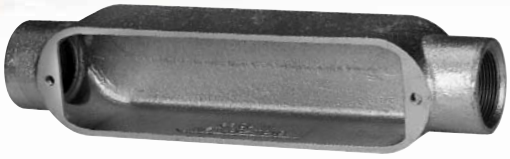
E Form 7 BlueKote™

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
E17	½	4.60	1.40	1.45	.95	3.20	6.0
E27	¾	5.25	1.60	1.65	1.15	3.80	9.1
E37	1	6.00	1.90	1.80	1.35	4.55	16.9

E Threaded Aluminum

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	G	CI
AE-1	½	3⅜	4⅜	1 21/64	1⅜	2 13/32	2 1/16	13/16	4.3
AE-2	¾	4⅝	5⅛	1 17/32	1⅝	2 25/32	2 11/32	15/16	7.3
AE-3	1	5⅜	5 15/16	1¾	1⅞	3¼	2⅝	1	11.8

Mogul Conduit Outlet Bodies



Application

Mogul bodies are installed in conduit systems to:

- Act as pull outlets for conductors that are stiff, due to large size or type of insulation
- Provide the longer openings needed when pulling large conductors
- Prevent sharp bends and kinks in large conductors (protects insulation during installation)
- Provide ample openings for splices and taps
- Provide access to wiring for maintenance, and future system changes

Features

Mogul bodies have:

- Long openings
- Provision for easy bends
- Tapered tapped hubs with integral bushings
- Stainless Steel cover screws
- Covers and gaskets included

Standard Materials

- Class 30 Gray iron alloy

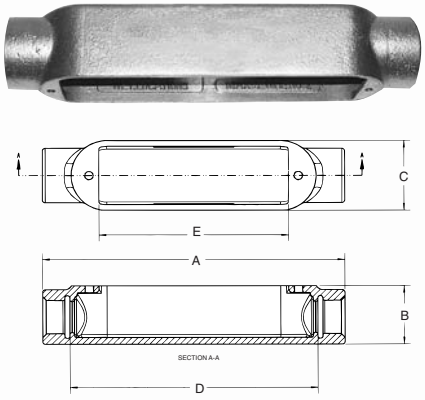
Standard Finishes

- Electrogalvanized and aluminum acrylic paint

Certifications and Compliances

- UL Standard: 514B
- Fed. Spec.: W-C-586d
- CSA Standard: C22.2 No.18
- UL listed for wet locations

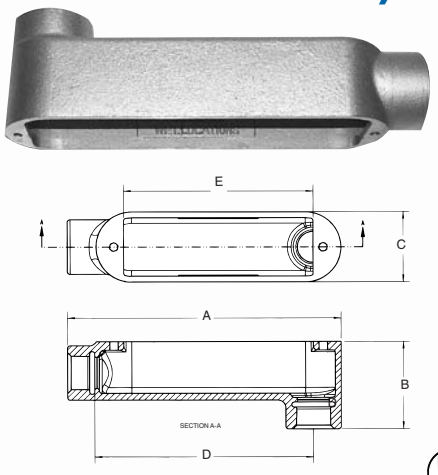
BC Mogul Series (Cover and Gasket Included)



BC

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
BC3-TB	1	9.56	1.88	2.25	7.84	6	20.0
BC4-TB	1¼	9.56	2.31	2.25	7.84	6	25.0
BC5-TB	1½	13.75	2.56	3	11.45	10	60.0
BC6-TB	2	13.75	3.31	3	11.45	10	78.0
BC7-TB	2½	18.38	3.63	4.25	15.61	15	180.0
BC8-TB	3	18.38	4.38	4.25	15.82	15	225.0
BC9-TB	3½	23.75	4.88	5.25	20.50	20	410.0
BC10-TB	4	23.75	5.38	5.25	20.50	20	460.0

BLB Mogul Series (Cover and Gasket Included)



BLB

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
BLB3-TB	1	8.66	2.80	2.25	6.92	6	20.0
BLB4-TB	1¼	8.66	2.70	2.25	6.70	6	25.0
BLB5-TB	1½	12.58	2.56	3	10.36	10	62.0
BLB6-TB	2	12.58	4.16	3	10.13	10	78.0
BLB7-TB	2½	16.94	5.10	4.25	13.89	15	170.0
BLB8-TB	3	16.94	5.81	4.25	13.59	15	210.0
BLB9-TB	3½	22.16	6.50	5.25	18.32	20	410.0
BLB10-TB	4	22.16	7.00	5.25	18.06	20	460.0

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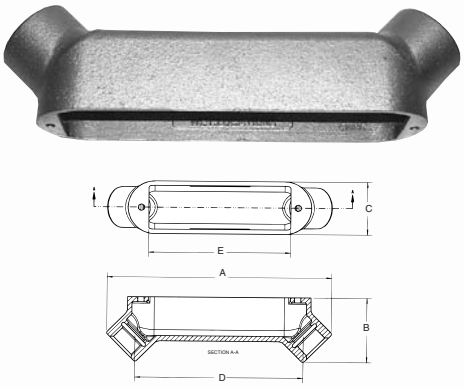
Mogul Conduit Outlet Bodies

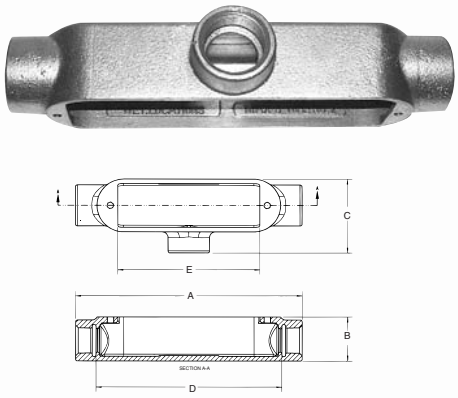
BUB Mogul Series (Cover and Gasket Included)



BUB

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
BUB3-TB	1	9.49	2.75	2.25	7.01	6	20.0
BUB4-TB	1¼	9.55	3.21	2.25	6.71	6	25.0
BUB5-TB	1½	16.68	6.67	3	10.47	10	62.0
BUB6-TB	2	13.68	4.28	3	10.20	10	78.0
BUB7-TB	2½	18.30	5.03	4.25	13.97	15	170.0
BUB8-TB	3	18.30	5.67	4.25	13.50	15	210.0
BUB9-TB	3½	23.74	6.72	5.25	18.07	20	385.0
BUB10-TB	4	23.74	7.22	5.25	17.73	20	430.0

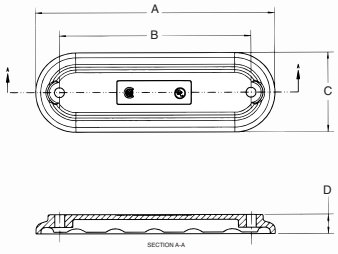
BT Mogul Series (Cover and Gasket Included)



BT

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E	CI
BT3-TB	1	9.56	1.88	3.16	7.84	6	20.0
BT4-TB	1¼	9.56	2.31	3.16	7.84	6	25.0
BT5-TB	1½	13.75	2.56	4.06	11.45	10	62.0
BT6-TB	2	13.75	3.31	4.06	11.45	10	78.0
BT7-TB	2½	18.38	3.63	5.59	15.61	15	180.0
BT8-TB	3	18.38	4.38	5.72	15.82	15	225.0
BT9-TB	3½	23.75	4.88	6.88	20.50	20	410.0
BT10-TB	4	23.75	5.38	6.88	20.50	20	460.0

BG Mogul Series Replacement Covers

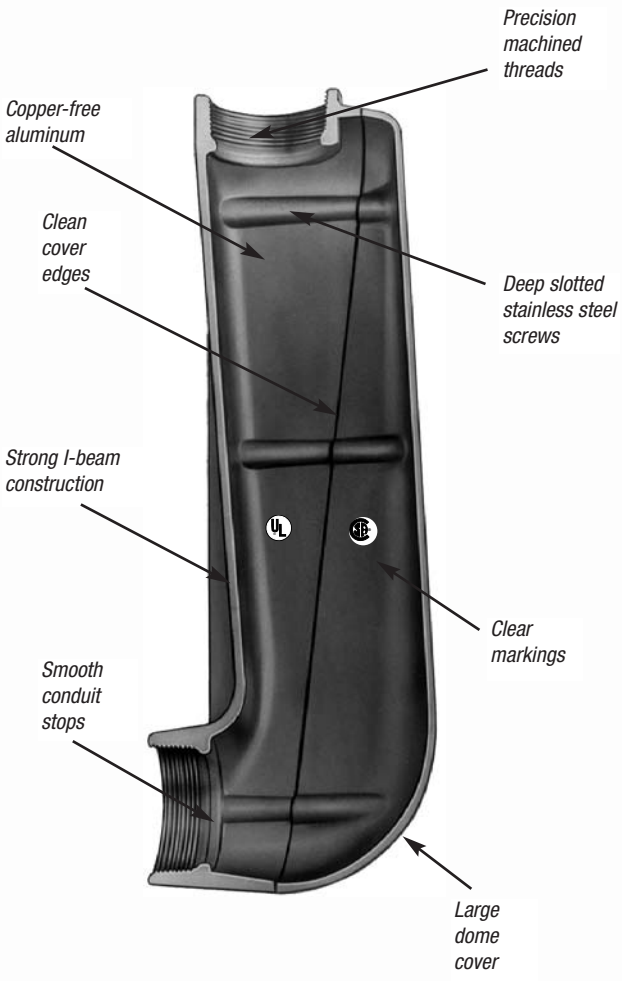


BG

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C	D	E
BG48T-B	1–1¼	8.27	6.62	2.77	.67	–
BG68-TB	1½–2	12	10.62	3.60	.82	–
BG88-TB	2½–3	16.22	12.44	4.97	.85	2.75
BG98-TB	3½– 4	21.21	16.63	5.96	.87	3.75

Aluminum Mogul Conduit Outlet Bodies

MALB



Application

- Raintight junction for bringing electrical service into a location
- Spacious, accessible wiring chamber provides a convenient location to pull conductors and make splices

Features/Benefits

- Copper-free* aluminum provides increased corrosion resistance
- Precision cast and machined surfaces permit safer wire pulling
- Clean cover edges provide good gasket sealing
- Precision NPT threaded hubs enable trouble-free field installation for rigid and IMC conduit
- Deep slotted stainless steel cover screws for faster installation
- Clear UL, CSA and cubic content markings speed approval by inspectors
- Dome-style cover permits easy wire pulling
- Meets NEC Article 370-28, 6-1 ratio
- Meets NEMA 3R standards

Standard Materials

- Mogul Pulling Elbows: Die cast aluminum alloy A360 with less than .004 copper content (copper-free). Stainless steel screws
- Gaskets: Composition

Standard Finish

- Aluminum lacquer finish

Compliances

- UL Listed
- CSA Certified
- Federal Spec. W-C-586
- NEC Article 370-28

Sample Specifications

- Mogul Pulling Elbows shall be die cast copper-free* aluminum alloy A360. All conduit stops shall be coined and free of rough edges. Mogul Pulling Elbows shall be finished with aluminum lacquer

Mogul Pulling Elbows shall be Red•Dot® Catalog No. _____

*Less than .004 copper content

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Aluminum Mogul Conduit Outlet Bodies

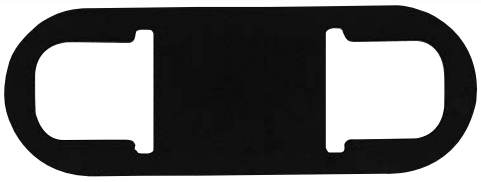
Aluminum Mogul Conduit Outlet Bodies

MALB-3 through -6

MALB-7 through -10

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
MALB-3	1"	1	10	174
MALB-4	1¼"	2	10	160
MALB-5	1½"	1	1	400
MALB-6	2"	1	1	375
MALB-7	2½"	1	1	1100
MALB-8	3"	1	1	1060
MALB-9	3½"	1	1	1900
MALB-10	4"	1	1	1800

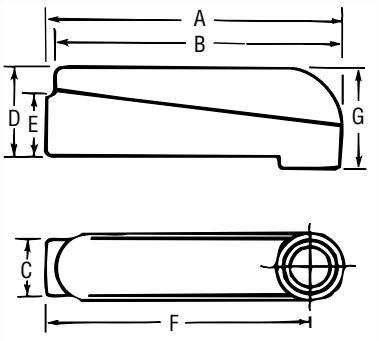
Covers and Gaskets



MGKV-4 through -7

COVER CAT. NO.	GASKET CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
MALB-56CV	MGKV-5	1½" or 2"	1	5	4
MALB-78CV	MGKV-6	2½" or 3"	1	5	5
MALB-90CV	MGKV-7	3½" or 4"	1	5	5

MALB



MALB

	(IN.)						
SIZE	A	B	C	D	E	F	G
1"	9⅝	9 1/16	2½	2¾	2 1/16	8½	3⅜
1¼"	9⅝	9 1/16	2½	2¾	2 1/16	8½	3⅜
1½"	14 17/32	14¼	2¾	4	2 13/16	13	5 1/32
2"	14 17/32	14¼	2¾	4	2 13/16	13	5 1/32
2½"	21 1/16	21 13/32	4½	5⅝	4⅜	18	7 23/32
3"	21 1/16	21 13/32	4½	5⅝	4⅜	18	7 23/32
3½"	28⅝	28 1/16	5½	6½	5⅜	24	9 23/32
4"	28⅝	28 1/16	5½	6½	5⅜	24	9 23/32

FS/FD Cast Device Boxes and Covers

Single-Gang Cast Device Boxes

Application

Cast device boxes are installed to:

- Accommodate wiring devices
- Act as pull boxes for conductorsin a threaded rigid conduit system, including an internal ground screw
- Provide openings to make splices and taps in conductors
- Provide access to conductors for maintenance and future system changes
- Connect conduit sections

Features

All hubs have NPT Threads with a minimum of five full threads and integral bushing. Internal grounding screw standard on boxes.

- Suitable for wet locations when used with gasketed covers
- Available in shallow (FS) or deep (FD) boxes. Use FD if device to be enclosed exceeds 1⅝" in depth
- Use blank bodies where special arrangements of conduit hubs or entrances are required
- All cover holes are #6-32
- Mounting lugs are standard on all FS and FD boxes

Size Range

- Hubs: ½" to 1" NPT

Materials

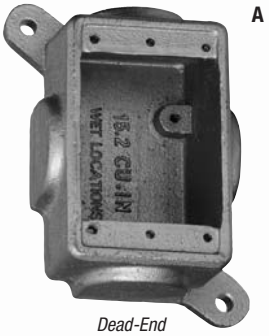
- Boxes: Class 30 Gray iron alloy
- Covers: Sand cast AL alloy and sheet steel
- Gaskets: Neoprene

Finish

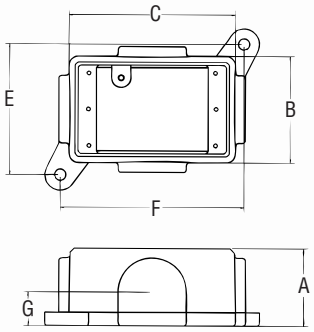
- Zinc-plated with aluminum acrylic paint

Listing Certifications

- UL: 514A (wet locations when used with gasketed covers)
- CSA: C22.2 No.18



Dead-End



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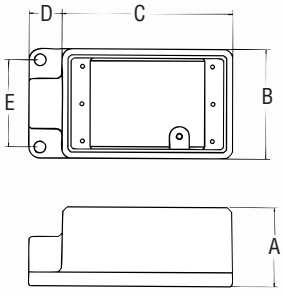

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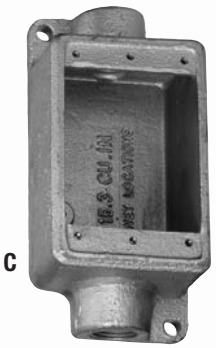
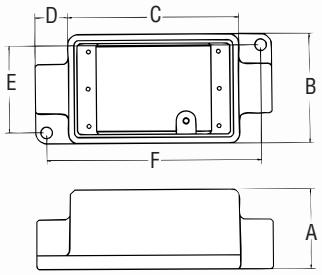
FS/FD Cast Device Boxes and Covers

Single-Gang Cast Device Boxes (continued)



Thru-Feed



Shallow Single-Gang Cast Device Boxes

CAT. NO.	FIG.	SIZE	HUB DIMENSIONS (IN.) A	B	C	D	E	F	G	THROAT DIA. MIN.	MAX.
Dead-End											
FS019-TB	A	Blank	2	2¾	4⁹⁄₃₂	—	3⅜	4²³⁄₃₂	⅞	N/A	N/A
FS1-TB	B	½"	2	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	—	—	0.570	0.610
FS2-TB	B	¾"	2	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	—	—	0.755	0.810
FS3-TB	B	1"	2	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	—	—	0.935	1.035
Thru-Feed											
FSC1-TB	C	½"	2	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	5⅜	—	0.570	0.610
FSC2-TB	C	¾"	2	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	5⅜	—	0.755	0.810
FSC3-TB	C	1"	2	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	5⅜	—	0.935	1.035

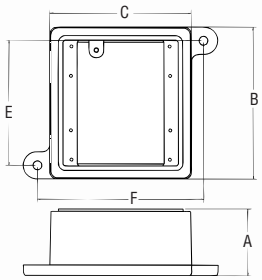
Deep Single-Gang Cast Device Boxes

CAT. NO.	FIG.	SIZE	HUB DIMENSIONS (IN.) A	B	C	D	E	F	G	THROAT DIA. MIN.	MAX.
Dead-End											
FD019-TB	A	Blank	2¹³⁄₁₆	2¾	4⁹⁄₃₂	–	3⅜	4²³⁄₃₂	1⅜	N/A	N/A
FD1-TB	B	½"	2¹³⁄₁₆	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	—	—	0.570	0.610
FD2-TB	B	¾"	2¹³⁄₁₆	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	—	—	0.755	0.810
FD3-TB	B	1"	2¹³⁄₁₆	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	—	—	0.935	1.035
Thru-Feed											
FDC1-TB	C	½"	2¹³⁄₁₆	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	5⅜	—	0.570	0.610
FDC2-TB	C	¾"	2¹³⁄₁₆	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	5⅜	—	0.755	0.810
FDC3-TB	C	1"	2¹³⁄₁₆	2¾	4⁹⁄₃₂	⅞	2³⁄₁₆	5⅜	—	0.935	1.035

FS/FD Cast Device Boxes and Covers

A

Dead-End

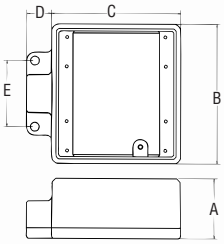


Shallow Double Gang Cast Device Boxes

CAT. NO.	FIG.	HUB SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	THROAT DIA. MIN.	MAX.
Dead-End										
FS062-TB	A	Blank	2	4⅝	4³⁄₃₂	–	4⅛	5½	N/A	N/A
FS12-TB	B	½	2	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	–	0.570	0.610
FS22-TB	B	¾	2	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	–	0.755	0.810
FS32-TB	B	1	2	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	–	0.935	1.035
Thru-Feed										
FSC12-TB	C	½	2	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	5⅜	0.570	0.610
FSC222-TB	C	¾	2	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	5⅜	0.755	0.810
FSC32-TB	C	1	2	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	5⅜	0.935	1.035

B

Dead-End



Deep Double Gang Cast Device Boxes

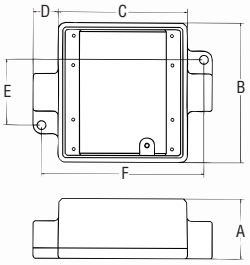
CAT. NO.	FIG.	HUB SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	THROAT DIA. MIN.	MAX.
Dead-End										
FD062-TB	A	Blank	2¹³⁄₁₆	4⅝	4³⁄₃₂	–	4⅛	5½	N/A	N/A
FD12-TB	B	½	2¹³⁄₁₆	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	–	0.570	0.610
FD22-TB	B	¾	2¹³⁄₁₆	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	–	0.755	0.810
FD32-TB	B	1	2¹³⁄₁₆	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	–	0.935	1.035
Thru-Feed										
FDC12-TB	C	½	2¹³⁄₁₆	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	5⅜	0.570	0.610
FDC222-TB	C	¾	2¹³⁄₁₆	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	5⅜	0.755	0.810
FDC32-TB	C	1	2¹³⁄₁₆	4⅝	4³⁄₃₂	⅞	2³⁄₁₆	5⅜	0.935	1.035

Double Gang Cast Device Boxes, Double Hub

CAT. NO.	FIG.	HUB SIZE	DIMENSIONS (IN.) A	B	C	D	E	THROAT DIA. MIN.	MAX.
FSS222-TB	D	¾	2	4⅝	4³⁄₃₂	⅞	4¹⁄₁₆	0.755	0.810
FDS222-TB	D	¾	2¹³⁄₁₆	4⅝	4³⁄₃₂	⅞	4¹⁄₁₆	0.755	0.810

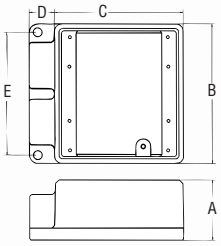
C

Thru-Feed



D

Dead-End



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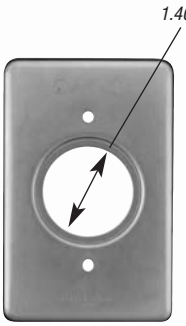
FS/FD Cast Device Boxes and Covers

DSS100-TB



DS21-TB

Single Gang Covers

CAT. NO.	DESCRIPTION
DSS100-TB	Blank, Sheet Steel
DS21-TB	Round Receptacle, Sheet Steel
DS23-TB	Duplex Receptacle, Sheet Steel
DS32-TB	Single Switch, Sheet Steel
DS100G-TB	Blank, Cast Aluminum

DS23-TB

DS32-TB

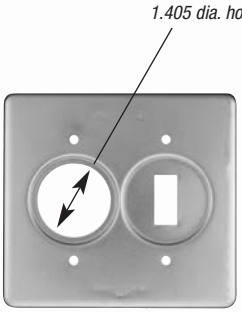
Double Gang Covers

CAT. NO.	DESCRIPTION
S1002-TB	Blank, Sheet Steel
S32232-TB	2 Receptacle/Switch, Sheet Steel
S32212-TB	Single Receptacle/Switch, Sheet Steel
S232-TB	2 Dual Receptacle, Sheet Steel
S322-TB	2 Switch, Sheet Steel
S1002GSA-TB	Blank, Cast Aluminum with Gasket

DS100G-TB

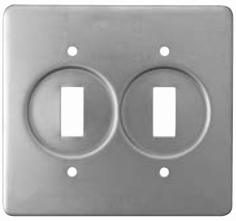
S1002-TB

S32232-TB



S32212-TB

S232-TB



S322

S1002GSA-TB

FS/FD Aluminum Device Boxes and Covers

Application

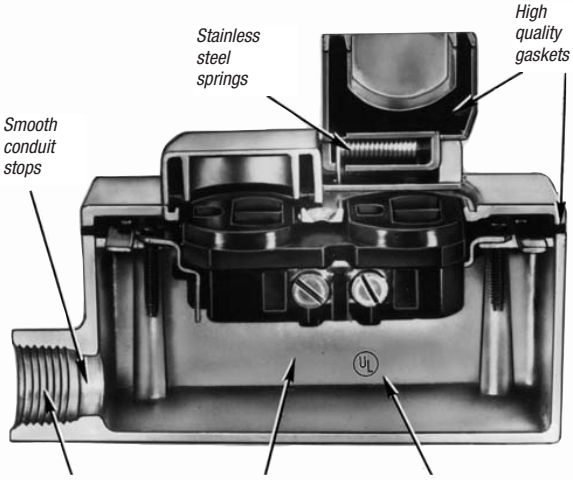
- Industrial grade FS device boxes and raintight covers protect wiring devices, switches, electronic components, and terminal blocks in dry, damp and wet locations.
- Spacious, accessible wiring chamber provides a convenient location to maintain or change a system, pull conductors and make splices
- Junction for branch conduits
- Aluminum boxes can be used with steel rigid conduit

AFS

2AFSC

CWP-G

CDR



Features/Benefits

- Copper-free* aluminum, stainless steel cover springs and hinge pins provide increased corrosion resistance
- Die cast construction, boxes with securely fastened mounting plates and industrial designed covers combine to produce a rugged protective enclosure for devices on industrial and OEM applications
- Clean cover edges provide good gasket sealing
- Precision NPT threaded hubs allow trouble-free field installation for rigid or IMC conduit
- Clear UL, CSA and cubic content markings speed approval by inspectors
- Boxes — external hub design provides increased wiring room

Standard Materials

- Die cast aluminum alloy A360 with less than .004 copper content (copper-free)
- Cover hinge pins and springs: Stainless steel

Standard Finish

- Aluminum lacquer finish

Compliances:

- UL Listed
- Boxes CSA Certified with factory installed ground screw **
- Covers CSA Certified
- Federal Spec. W-C-586

Sample Specifications

- Industrial grade FS device boxes and covers shall be die cast copper-free* aluminum alloy A360. All conduit stops shall be coined and free of rough edges. Raintight covers shall have stainless steel springs and hinge pins and are suitable for use in wet locations with cover closed (CFSB, CFST and CFSTF suitable for wet locations). Industrial grade FS device boxes and covers shall be finished with aluminum lacquer. Industrial grade FS device boxes and covers shall be Thomas & Betts Catalog No. _____

*Less than .004 copper content

**Consult factory for lead time and minimum quantity.

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FS/FD Aluminum Device Boxes and Covers


AFS


AFSC


AFSS


AFSCC


ADFS


ADFSC


2AFS


2AFSC


2ADFS


FSMG-TB

Single Gang Boxes Raintight*

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
Standard, 1 Hole Box, Dead End				
AFS-1*	½"	5	25	68
AFS-2*	¾"	5	25	74
AFS-3*	1"	5	25	72
Standard, 2 Hole Box, Through Feed				
AFSC-1*	½"	5	25	72
AFSC-2*	¾"	5	25	88
AFSC-3*	1"	5	25	79
Standard, 2 Hole Box, Dead End				
AFSS-1*	½"	5	25	80
AFSS-2*	¾"	5	25	76
Standard, 3 Hole Box, Through Feed				
AFSCC-1*	½"	5	25	88
AFSCC-2*	¾"	5	25	80
Deep, 1 Hole Box, Dead End				
ADFS-1*	½"		5	74
ADFS-2*	¾"		5	78
ADFS-3*	1"		5	80
Deep, 2 Hole Box, Through Feed				
ADFSC-1*	½"		5	76
ADFSC-2*	¾"		5	90
ADFSC-3*	1"		5	90

**Rain-tight when used with appropriate Red•Dot® covers.*

Two Gang Boxes Raintight*

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
Standard, 1 Hole Box, Dead End				
2AFS-1*	½"	2	10	115
2AFS-2*	¾"	2	10	95
2AFS-3*	1"	2	10	90
Standard, 2 Hole Box, Through Feed				
2 AFSC-1*	½"	2	10	104
2AFSC-2*	¾"	2	10	102
Deep, 1 Hole Box, Dead End				
2ADFS-1*	½"		3	128
2ADFS-2*	¾"		3	143

**Rain-tight when used with appropriate Red•Dot® covers.*

Multi-Gang Boxes Raintight*

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
FSMG-TB	4" Threadless Conduit	1	242	

**Rain-tight when used with appropriate Red•Dot® covers.*

FS/FD Aluminum Device Boxes and Covers

Suitable for use in
Wet Locations with Cover Closed
NEMA 3R


CWPDR


CWPDR-FS


CWPV-DR


CFSDR


CWP-G


CFSH-G


CWPV-G


CFSR-G


CFSR Series


CFST

CFSTF


CFSB

Single Gang Covers Complete with Gasket and Screws — Raintight*

CAT. NO.	DESCRIPTION	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
For Duplex Receptacles, Horizontal				
CWPDR*	Duplex receptacle cover with 2 spring doors, Device Mount	1	25	40
CWPDR-FS*	Box Mount	1	25	40
For Duplex Receptacles, Vertical				
CFSDR*	Box Mount	1	25	38
For GFCI Receptacles Horizontal				
CFSH-G*	Box Mount	1	25	40
For GFCI Receptacles Vertical				
CWPV-G*	GFCI receptacle cover 2y" x 1X" rectangular opening Device Mount	1	25	40
CFSR-G*	Box Mount	1	25	40

**Raintight when used with appropriate Thomas & Betts boxes.*

CAT. NO.	NOMINAL SIZE	MAX. DEVICE FACE DIA.	UNIT QTY.	STD. PKG.	WT. LBS PER 100
For Single Receptacles Vertical (Box Mount Only)					
CFSR-L*	1 9/16"	1.600"	1	25	40
CFSR-S*	1 3/8"	1.395"	1	25	40
CFSR-X*	1 27/32"	1.865"	1	25	40
CFSR-XL*	2 1/8"	2.145"	1	25	40
CFSR-Y*	1 3/4"	1.750"	1	25	40

**Raintight when used with appropriate Thomas & Betts boxes.*

Single Gang Covers Complete with Gasket and Screws — Raintight*

CAT. NO.	DESCRIPTION	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
Switch Cover				
CFST*	Plunger Style, Switch Cover, Box Mount NEMA 3R	1	25	40
Switch Cover				
CFSTF*	Front Lever, Switch Cover, Box Mount NEMA 4	1	25	40
Blank Cover				
CFSB*	Blank Cover, Box Mount, NEMA 3R	20	100	14

**Raintight when used with appropriate Thomas & Betts boxes.*

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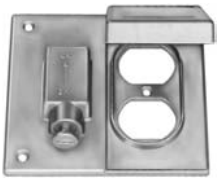
Suitable for use in
Wet Locations with Cover Closed
NEMA 3R

FS/FD Aluminum Device Boxes and Covers


2CWPDR

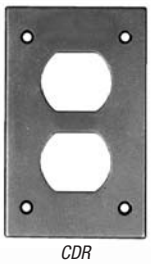

2CWTDR


2CWPR-M


2CFSR-M


2CFST


2CFSB


CDR


CTS


CR Series


FS-GKV


2CDR


2CTS


2CTDR


2FS-GKV

Two Gang Covers Complete with Gasket and Screws — Raintight*

CAT. NO.	DESCRIPTION	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
For Two Duplex Receptacles				
2CWPDR*	Two Duplex Receptacle Cover with 2 Spring Doors, Device Mount	1	10	48
For Switch and Duplex Receptacle				
2CWTDR*	Switch and Duplex Receptacle Cover, Box/Device Mount	1	10	48
For Single Receptacle				
2CWPR-M*	Single Receptacle Cover, Hole Dia. 2¼", Device Mount	1	10	48
2CFSR-M*	Single Receptacle Cover, Hole Dia. 2¼", Box Mount	1	10	48
For Two Switches				
2CFST*	Plunger Style Switch Cover, Box Mount	1	10	26
Blank				
2CFSB*	Blank Cover, Box Mount	10	50	25

**Raintight when used with appropriate Thomas & Betts boxes.*

Single Gang Covers Complete with Gasket and Screws

CAT. NO.	DESCRIPTION	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
For Duplex Receptacles				
CDR	Duplex receptacle Cover, Box Mount	20	100	11
For Switches				
CTS	Switch Cover, Box Mount	20	100	14

CAT. NO.	NOMINAL SIZE	MAX. DEVICE FACE DIA.	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
For Single Receptacles (Box Mount Only)					
CRL	1⅜"	1.600"	20	100	12
CRS	1⅜"	1.395"	20	100	12
CRX-L	2⅛"	2.145"	20	100	12

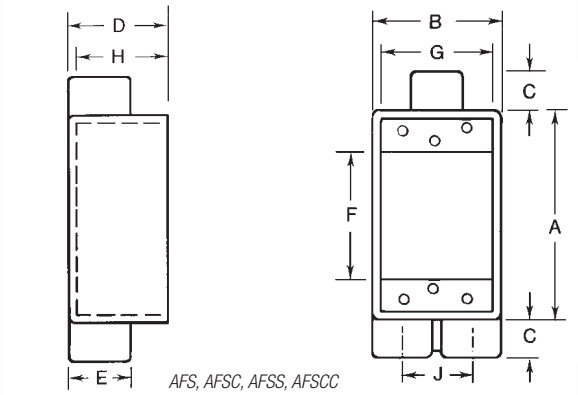
CAT. NO.	DESCRIPTION	STD. PKG.	WT. LBS. PER 100
Gasket			
FS-GKV	Composition Gasket	100	2

Two Gang Covers Complete with Gasket and Screws

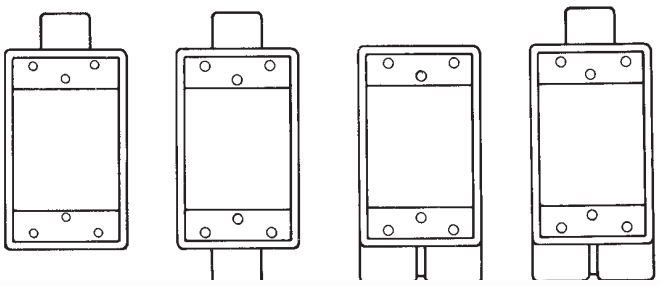
CAT. NO.	DESCRIPTION	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
For Two Duplex Receptacles				
2CDR	Two Duplex Receptacle Cover, Device Mount	10	50	24
For Two Switches				
2CTS	Switch Cover, Device Mount	10	50	24
For Switch and Duplex Receptacles				
2CTDR	Switch and Duplex Receptacle Cover, Device Mount	10	50	24
Gasket				
2FS-GKV	Composition Gasket	—	50	3

FS/FD Aluminum Device Boxes and Covers

Dimensions and Cubic Inches (CI) Single Gang Boxes

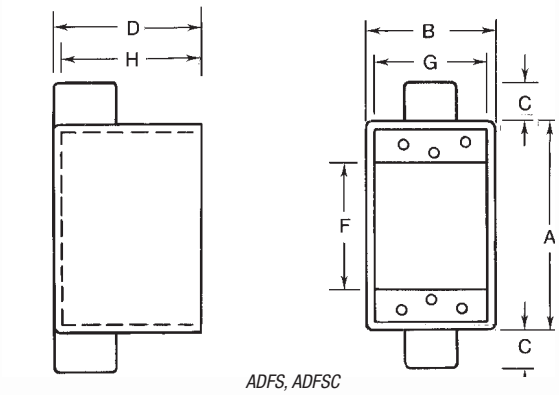


AFS, AFSC, AFSS, AFSCC

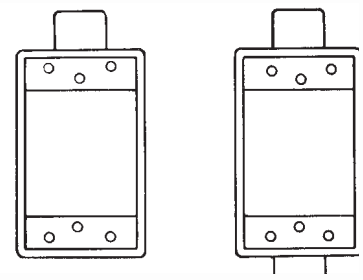


AFS AFSC AFSS AFSCC

CAT. NO.	HUB SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	J	CI
AFS-1	½"	4 9/16	2 13/16	13/16	2 1/16	1 1/8	2 1/8	2 3/16	1 15/16	—	21.6
AFS-2	¾"	4 9/16	2 13/16	13/16	2 1/16	1 11/16	2 1/8	2 3/16	1 15/16	—	21.6
AFS-3	1"	4 9/16	2 13/16	13/16	2 1/16	1 11/16	2 1/8	2 3/16	1 15/16	—	21.6
AFSC-1	½"	4 9/16	2 13/16	13/16	2 1/16	1 1/8	2 1/8	2 3/16	1 15/16	—	21.6
AFSC-2	¾"	4 9/16	2 13/16	13/16	2 1/16	1 11/16	2 1/8	2 3/16	1 15/16	—	21.6
AFSC-3	1"	4 9/16	2 13/16	13/16	2 1/16	1 11/16	2 1/8	2 3/16	1 15/16	—	21.6
AFSS-1	1½"	4 9/16	2 13/16	13/16	2 1/16	1 3/8	2 1/8	2 3/16	1 15/16	1½	21.6
AFSS-2	¾"	4 9/16	2 13/16	13/16	2 1/16	1 3/8	2 1/8	2 3/16	1 15/16	1½	21.6
AFSCC-1	½"	4 9/16	2 13/16	13/16	2 1/16	1 3/8	2 1/8	2 3/16	1 15/16	1½	21.6
AFSCC-2	¾"	4 9/16	2 13/16	13/16	2 1/16	1 3/8	2 1/8	2 3/16	1 15/16	1½	21.6



ADFS, ADFSC



ADFS ADFSC

CAT. NO.	HUB SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI
ADFS-1	½"	4 9/16	2 13/16	7/8	3 1/16	1 1/8	2 1/8	2 3/16	2 15/16	31.3
ADFS-2	¾"	4 9/16	2 13/16	7/8	3 1/16	1 11/16	2 1/8	2 3/16	2 15/16	31.3
ADFS-3	1"	4 9/16	2 13/16	7/8	3 1/16	1 11/16	2 1/8	2 3/16	2 15/16	31.3
ADFSC-1	1½"	4 9/16	2 13/16	7/8	3 1/16	1 1/8	2 1/8	2 3/16	2 15/16	31.3
ADFSC-2	¾"	4 9/16	2 13/16	7/8	3 1/16	1 11/16	2 1/8	2 3/16	2 15/16	31.3
ADFSC-3	1"	4 9/16	2 13/16	7/8	3 1/16	1 11/16	2 1/8	2 3/16	2 15/16	31.3

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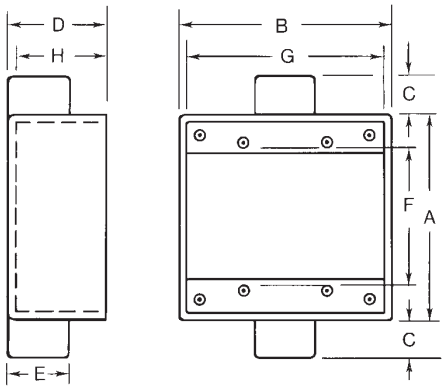
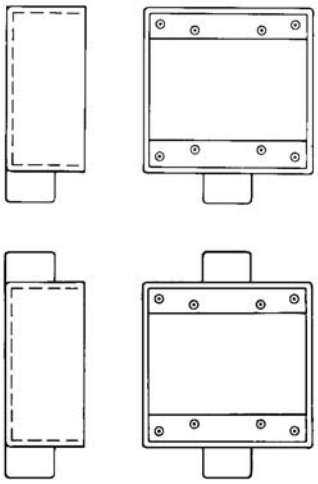
FS/FD Aluminum Device Boxes and Covers

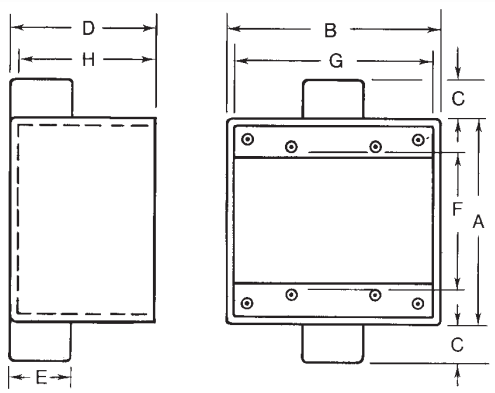
Dimensions and Cubic Inches (CI) Two Gang Boxes



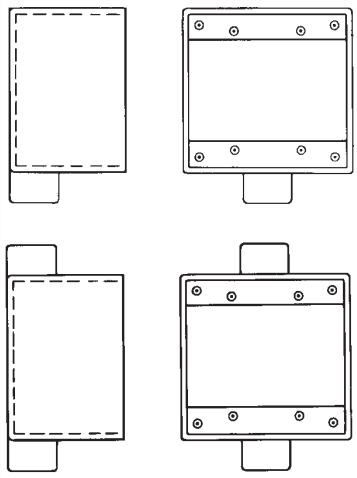
2AFS, 2AFSC



CAT. NO.	HUB SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI
2AFS-1	½"	4 9/16	4 5/8	13/16	2 1/16	1 3/8	2 7/8	4 3/8	1 15/16	36.0
2AFS-2	¾"	4 9/16	4 5/8	13/16	2 1/16	1 3/8	2 7/8	4 3/8	1 15/16	36.0
2AFS-3	1"	4 9/16	4 5/8	7/8	2 1/16	1 11/16	2 7/8	4 3/8	1 15/16	36.0
2AFSC-1	½"	4 9/16	4 5/8	13/16	2 1/16	1 3/8	2 7/8	4 3/8	1 15/16	36.0
2AFSC-2	¾"	4 9/16	4 5/8	13/16	2 1/16	1 3/8	2 7/8	4 3/8	1 15/16	36.0



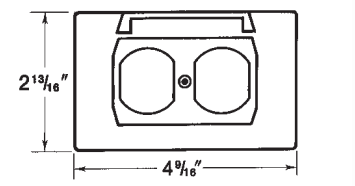
2ADFS, 2ADFSC



CAT. NO.	HUB SIZE	DIMENSIONS (IN.) A	B	C	D	E	F	G	H	CI
2ADFS-1	½"	4 9/16	4 5/8	13/16	3 3/32	1 3/8	2 7/8	4 3/8	20	54.0
2ADFS-2	¾"	4 9/16	4 5/8	13/16	3 3/32	1 3/8	2 7/8	4 3/8	20	54.0
2ADFS-3	1"	4 9/16	4 5/8	7/8	3 3/32	1 11/16	2 7/8	4 3/8	20	54.0
2ADFSC-2	¾"	4 9/16	4 5/8	13/16	3 3/32	1 3/8	2 7/8	4 3/8	20	54.0
2ADFSC-3	1"	4 9/16	4 5/8	7/8	3 3/32	1 11/16	2 7/8	4 3/8	20	54.0

FS/FD Aluminum Device Boxes and Covers

Dimensions — Single-Gang Covers



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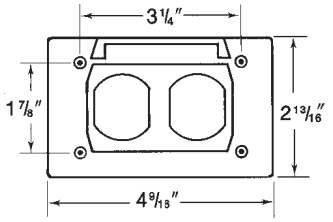

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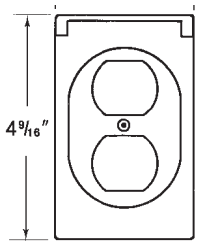

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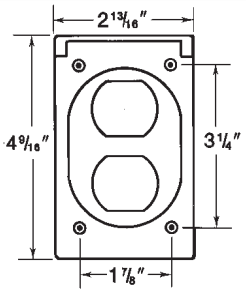

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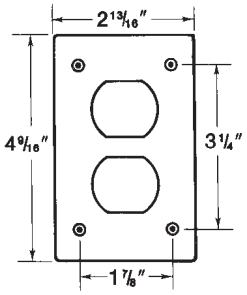
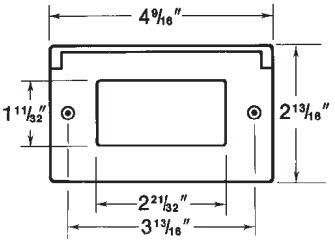
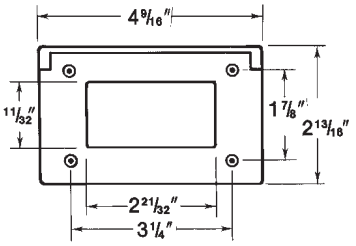


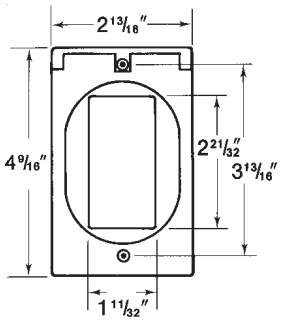
CDR



CWP-G



CFSH-G



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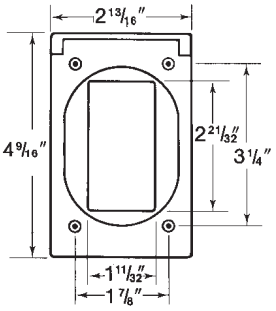
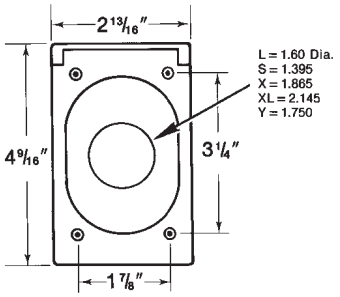
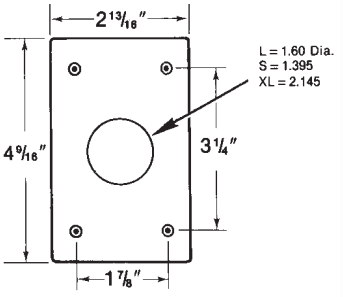


CFSR-G



CFSR Series



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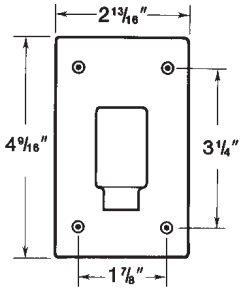

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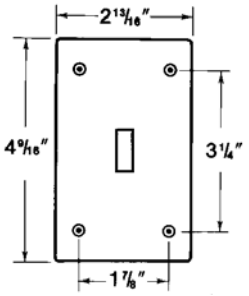

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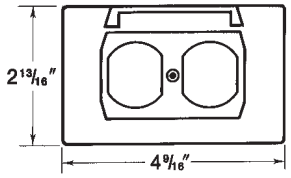

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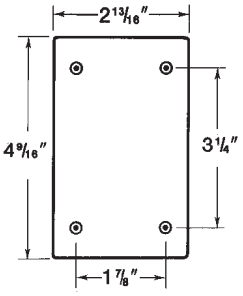

CFSB

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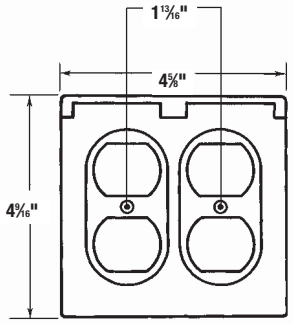
Technical Services
Tel: 888.862.3289

FS/FD Aluminum Device Boxes and Covers

Dimensions — Two-Gang Covers



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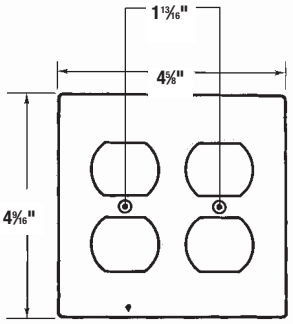

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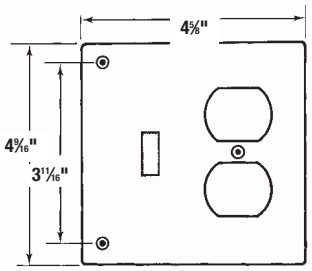

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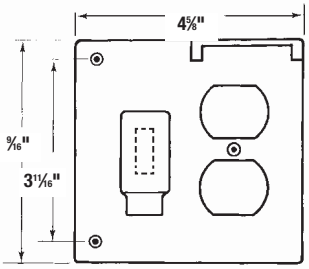

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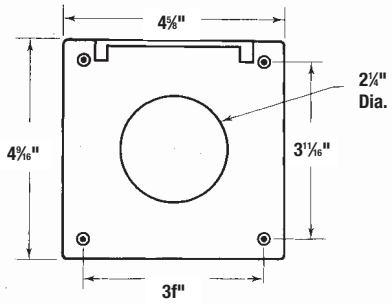

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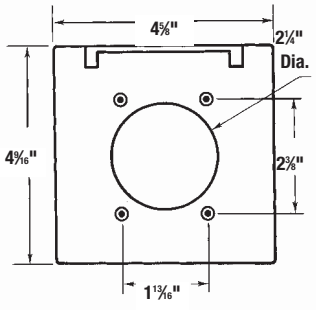

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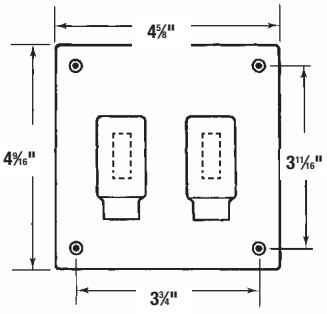

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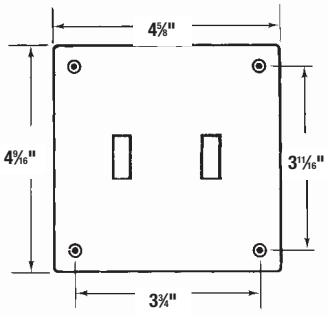

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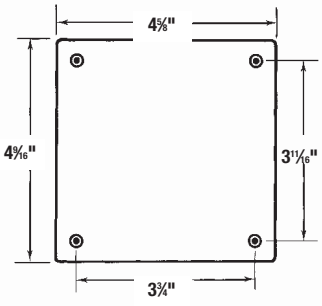


2CFSB

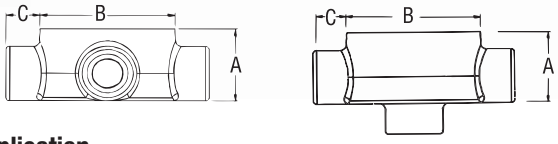
Conduit Outlet Boxes Explosion-Proof, Dust-Ignition-Proof

GUA Conduit Outlet Boxes

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2

NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations



Application

GUA boxes can be used for hazardous location conduit runs for the following:

- Allows for mounting of fixture outlets (when used with appropriate covers)
- Provides easy access to wiring
- Provides junction in conduit for wire pulling and splices
- Changes direction in rigid conduit systems
- Attaches two or more pieces of conduit in long runs
- Guards against damage to wires in rigid conduit

GUA

Features

- All hubs have a minimum of five full threads and integral bushing
- All boxes are furnished with internal grounding screw
- Cover supplied with O-ring gasket

GUAB

Size Range

- ½" NPT to 2" NPT
- Access opening 2" to 5" diameter

Materials

- Bodies: Grade 60-45-10 Ductile Iron (Complies with ASTM standard A536)
- Covers: Die cast aluminum

GUAC

Finish

- Boxes: Zinc-plated with aluminum acrylic paint
- Covers: Natural

Listing Certifications

- UL514A (wet locations when used with gasketed covers)
- UL886
- CSA: C22.2 No. 30

GUAD

GUA

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUA14-TB	½	1 3/16	2½	⅞	1 1/16	.570	.610	5.5
GUA16-TB	½	2	3 ½	⅞	2	.570	.610	13.5
GUA24-TB	¾	2	2 ½	⅞	1 ⅞	.755	.810	5.3
GUA26-TB	¾	2	3 ½	⅞	2	.755	.810	13.3
GUA36-TB	1	2 5/16	3 ½	⅞	2 5/16	.935	1.035	16.2
GUA47-TB	1¼	2 1/16	4⅜	1	2 23/32	1.260	1.360	29
GUA59-TB	1 ½	3 3/16	5¾	1 1/16	3 51/64	1.470	1.590	70

GUAB

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAB14-TB	½	2¼	2 ½	⅞	2 7/64	.570	.610	6.9
GUAB16-TB	½	2	3 ½	⅞	2	.570	.610	13.5
GUAB24-TB	¾	2 ½	2 ½	⅞	2⅜	.755	.810	7.9
GUAB26-TB	¾	2	3 ½	⅞	2	.755	.810	13.5
GUAB36-TB	1	2 5/16	3 ½	1	2 15/16	.935	1.035	15.4
GUAB47-TB	1¼	2 1/16	4⅜	1	2 23/32	1.260	1.360	27.5
GUAB59-TB	1 ½	3 3/16	5 ¾	1 1/16	3 51/64	1.470	1.590	73.6
GUAB69-TB	2	4 1/16	5 ¾	1 1/16	4 3/64	1.880	2.047	80
GUAB79-TB	2 ½	4 1/16	5 ¾	1⅛	4 3/64	2.320	2.380	98

GUAC

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAC14-TB	½	2¼	2½	⅞	2 7/64	.570	.610	6.8
GUAC16-TB	½	2	3½	⅞	2	.570	.610	13.1
GUAC24-TB	¾	2	2½	⅞	1⅛	.755	.810	5.3
GUAC26-TB	¾	2	3½	⅞	2	.755	.810	13.3
GUAC36-TB	1	2 5/16	3½	⅞	2 5/16	.935	1.035	16.2
GUAC47-TB	1¼	2 1/16	4⅜	1	2 23/32	1.260	1.360	29.3
GUAC49-TB	1¼	3 3/16	5¾	1	3 3/16	1.260	1.360	73.6
GUAC59-TB	1½	3 3/16	5¾	1 1/16	3 3/16	1.470	1.590	74
GUAC69-TB	2	4 1/16	5¾	1 1/16	4 3/64	1.880	2.047	77.8

GUAD

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAD14-TB	½	1 3/16	2½	⅞	1 1/16	.570	.610	5.6
GUAD16-TB	½	2	3½	⅞	2	.570	.610	12.5
GUAD24-TB	¾	2	2½	⅞	1⅞	.755	.810	5.2
GUAD26-TB	¾	2	3½	⅞	2	.755	.810	13.1
GUAD36-TB	1	2 5/16	3½	⅞	2 5/16	.935	1.035	16
GUAD49-TB	1¼	3 3/16	5¾	1	3 3/16	1.260	1.360	76

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Conduit Outlet Boxes Explosion-Proof, Dust-Ignition-Proof

GUA Conduit Outlet Boxes (continued)

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosionproof
Dust-Ignitionproof
Raintight
Wet Locations


GUAL


GUAT


GUAW


GUAN


GUAM


GUAX

GUA Conduit Device Box Replacement Covers

CAT. NO.	OPENING DIA.
GUA04-TB	2
GUA06-TB	3
GUA07-TB	3e
GUA09-TB	5

GUAL

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAL14-TB	½	2¼	2½	⅞	2 3/64	.570	.610	7.1
GUAL16-TB	½	2	3½	⅞	2	.570	.610	13.4
GUAL24-TB	¾	2	2½	⅞	1⅞	.755	.810	5.3
GUAL26-TB	¾	2	3½	⅞	2	.755	.810	13.3
GUAL36-TB	1	2 5/16	3½	⅞	2 5/16	.935	1.035	16.2
GUAL47-TB	1¼	2 1/16	4⅜	1	2 23/32	1.260	1.360	30
GUAL49-TB	1¼	3 13/16	5¾	1	3 51/64	1.260	1.360	74.5
GUAL59-TB	1½	3 13/16	5¾	1 1/16	3 51/64	1.470	1.590	74
GUAL69-TB	2	4 1/16	5¾	1 1/16	4 3/64	1.880	2.047	77.8

GUAT

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAT14-TB	½	2¼	2½	⅞	2 3/64	.570	.610	7
GUAT16-TB	½	2	3½	⅞	2	.570	.610	13.5
GUAT24-TB	¾	2	2½	⅞	1⅞	.755	.810	5.3
GUAT26-TB	¾	2	3½	⅞	2	.755	.810	13.3
GUAT36-TB	1	2 5/16	3½	1	2 5/16	.935	1.035	15.9
GUAT37-TB	1	2 5/16	3½	⅞	2 5/16	.935	1.035	23.3
GUAT47-TB	1¼	2 1/16	4⅜	1	2 23/32	1.260	1.360	29.3
GUAT49-TB	1¼	3 13/16	5¾	1	3 51/64	1.260	1.360	77.2
GUAT59-TB	1½	3 13/16	5¾	1 1/16	3 51/64	1.470	1.590	77.7
GUAT69-TB	2	4 1/16	5¾	1 1/16	3 51/64	1.880	2.047	77.8
GUAT79-TB	2½	4 1/16	5¾	1 1/16	4 3/64	2.320	2.380	95

GUAM

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAM14-TB	½	1 13/16	2½	⅞	1 1/16	.570	.610	5.6
GUAM16-TB	½	2	3½	⅞	2	.570	.610	12.5
GUAM24-TB	¾	2	2½	⅞	1⅞	.755	.810	6.2
GUAM26-TB	¾	2	3½	⅞	2	.755	.810	12.5
GUAM36-TB	1	2 5/16	3½	⅞	2 5/16	.935	1.035	14
GUAM47-TB	1¼	2 1/16	4⅜	1	2 23/32	1.260	1.360	29.2
GUAM69-TB	2	4 1/16	5¾	1 1/16	4 3/64	1.880	2.047	80

GUAW

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAW14-TB	½	1 13/16	2½	⅞	1 1/16	.570	.610	5.2
GUAW16-TB	½	2	3½	⅞	2	.570	.610	13
GUAW24-TB	¾	2	2½	⅞	1⅞	.755	.810	6.5
GUAW26-TB	¾	2	3½	⅞	2	.755	.810	13

GUAN

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAN14-TB	½	2⅛	2½	⅞	2	.570	.610	6.8
GUAN16-TB	½	2	3½	⅞	2	.570	.610	13.5
GUAN24-TB	¾	2 5/16	2½	⅞	2 3/16	.755	.810	7.7
GUAN26-TB	¾	2	3½	⅞	2	.755	.810	14
GUAN36-TB	1	2 5/16	3½	⅞	2 5/16	.935	1.035	16.9
GUAN47-TB	1¼	2 1/16	4⅜	1	2 23/32	1.260	1.360	31.5
GUAN59-TB	1½	4 1/16	5¾	1 1/16	4 3/64	1.470	1.590	84
GUAN69-TB	2	4 1/16	5¾	1 1/16	4 3/64	1.880	2.047	84

GUAX

CAT. NO.	HUB SIZE	DIMENSIONS (INCHES) A	B	C	D	THROAT DIA. MIN.	MAX.	CUBIC IN. CAPACITY
GUAX14-TB	½	1 13/16	2½	⅞	1 1/16	.570	.610	5.2
GUAX16-TB	½	2	3½	⅞	2	.570	.610	13.5
GUAX24-TB	¾	2	2½	⅞	1⅞	.755	.810	5.3
GUAX26-TB	¾	2	3½	⅞	2	.755	.810	13.3
GUAX36-TB	1	2 5/16	3½	1	2 5/16	.935	1.035	16
GUAX37-TB	1	2 5/16	3½	⅞	2 5/16	.935	1.035	23.3
GUAX47-TB	1¼	2 1/16	4⅜	1	2 3/16	1.260	1.360	30
GUAX49-TB	1¼	3 13/16	5¾	1	3 51/64	1.260	1.360	72
GUAX59-TB	1½	3 13/16	5¾	1 1/16	3 51/64	1.470	1.590	71
GUAX69-TB	2	4 1/16	5¾	1 1/16	4 3/64	1.880	2.047	77.8

Aluminum Conduit Outlet Boxes
Explosion-Proof, Dust-Ignition-Proof

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

GAX

GAFX

GAJU

Application

- Junction for branch conduits in hazardous locations
- Accessible wiring chamber provides a convenient location to maintain or change a system, pull conductors and make splices
- Unique mounting pads and external hub design ideal for installations of OEM devices or instruments

Features/Benefits

- Copper-free* aluminum provides increased corrosion resistance
- Precision cast and machined surfaces permit safer wire pulling
- Precision NPT threaded hubs enable trouble-free field installation for rigid or IMC conduit
- Die cast construction and industrial design combine to produce a rugged protective enclosure for devices on industrial and OEM applications
- Clear UL, CSA and cubic content markings speed approval by inspectors

GASS

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Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

Aluminum Conduit Outlet Boxes
Explosion-Proof, Dust-Ignition-Proof

Standard Materials

- Die cast aluminum alloy A360 with less than .004 copper content (copper-free)

Standard Finish

- Aluminum lacquer finish

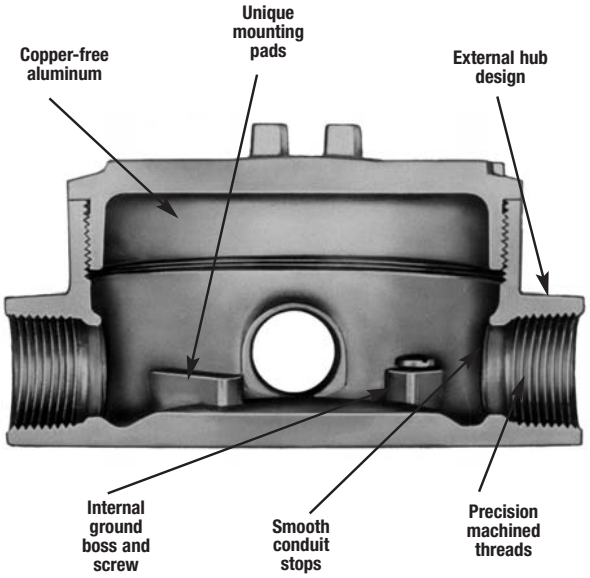
Compliances

- UL Listed
- CSA Certified
- Suitable for hazardous locations
- NEMA 4 rated when ordered with O-ring installed
- Federal Spec W-C-586

Sample Specifications

- Outlet boxes for hazardous locations shall be die cast copper- free* aluminum alloy A360 and suitable for use in Class I, Groups C, D, Class II, Groups E, F, G and Class III areas. All conduit stops shall be coined and free of rough edges. Outlet boxes for hazardous locations shall be finished with aluminum lacquer. Outlet boxes shall be Red•Dot® Catalog No. _____

Less than .004 copper content.



Aluminum Conduit Outlet Boxes
Explosion-Proof, Dust-Ignition-Proof

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

External Hubs with Installed Green Ground Screw


GAC


GAL


GALB


GAT

Through Feed with Surface Cover

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
• GAC-1	½"	1	5	115
• GAC-2	¾"	1	5	115
◗• GAC-3	1"	1	5	115
◗• GAC-4	1¼"	1	5	175
◗• GAC-5	1½"	1	4	247
◗• GAC-6	2"	1	4	253

L Style with Surface Cover

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
◗ GAL-1	½"	1	5	115
◗ GAL-2	¾"	1	5	115
◗• GAL-3	1"	1	5	115
◗• GAL-4	1¼"	1	5	175
◗• GAL-5	1½"	1	4	247
◗• GAL-6	2"	1	4	253

LB Style with Surface Cover

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
◗ GALB-1	½"	1	5	115
◗ GALB-2	¾"	1	5	115
◗ GALB-3	1"	1	5	115
◗• GALB-4	1¼"	1	5	175
◗• GALB-5	1½"	1	4	247
◗• GALB-6	2"	1	4	253

T Style with Surface Cover

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
◗ GAT-1	½"	1	5	120
◗ GAT-2	¾"	1	5	120
◗ GAT-3	1"	1	5	120
◗ GAT-4	1¼"	1	5	180
◗ GAT-5	1½"	1	4	48
◗ GAT-6	2"	1	4	406

• Made to order items. Consult factory for lead time and minimum quantities.

◗ Suffix-OR: O-ring available for NEMA 4 rating. Consult factory for lead time and price.

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NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

Aluminum Conduit Outlet Boxes Explosion-Proof, Dust-Ignition-Proof

External Hubs with Installed Green Ground Screw

GAX

X Style with Surface Cover

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
† GAX-1	½"	1	5	125
† GAX-2	¾"	1	5	125
† GAX-3	1"	1	5	125
†• GAX-4	1¼"	1	5	210
†• GAX-5	1½"	1	4	257
†• GAX-6	2"	1	4	413

GAFX

X Style with Flange and Surface Cover

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
† GAFX-1	½"	1	4	135
† GAFX-2	¾"	1	4	135
† GAFX-3	1"	1	4	135

GAS

Surface Style Cover

CAT. NO.	COVER OPENING	FITS BOXES	STD. PKG.	WT. LBS. PER 100
• GAS-123	3 11/16"	½", ¾", 1"	1	36
• GAS-4	3 29/32"	1¼"	1	52
• GAS-56	5 3/16"	1½", 2"	1	69

GAD

Dome Style Cover (Class I, Group D only)

CAT. NO.	COVER OPENING	FITS BOXES	INSIDE HEIGHT	STD. PKG.	WT. LBS. PER 100
• GAD-123	3 11/16	½", ¾", 1"	2⅝"	1	71

• Made to order items. Consult factory for lead time and minimum quantities.

† Suffix-OR: O-ring available for NMEA 4 rating. Consult factory for lead time and price.

External Hubs with Installed Green Ground Screw, Covers and Plugs

GAJU

U Style with Canopy Cover

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
• GAJU-1	½"	1	5	130
• GAJU-2	¾"	1	5	130
GAJU-3	1"	1	5	130
• GAJU-5	1½"		1	267
GAJU-6	2"		1	273

GAJ

Canopy Style Cover

CAT. NO.	COVER OPENING	FITS BOXES	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
• GAJ-123	3 11/16"	½", ¾", 1"	1	10	44
• GAJ-4	3 29/32"	1¼"	1	5	61
• GAJ-56	5 3/16"	1½", 2"	1	5	78

• Made to order items. Consult factory for lead time and minimum quantities.

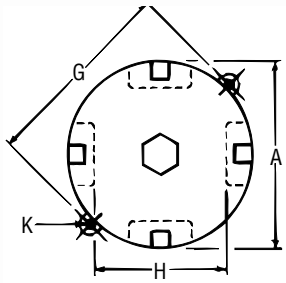
Aluminum Conduit Outlet Boxes Explosion-Proof, Dust-Ignition-Proof

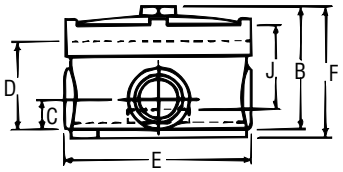
Dimensions and Cubic Inches (CI)

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2

NEMA 3, 4, 7 CD, 9 EFG

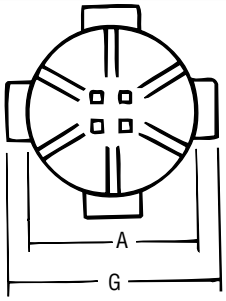
Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

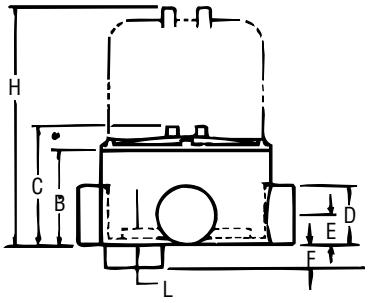


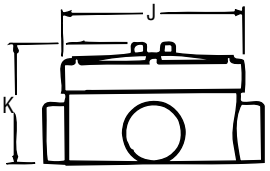


EXUN & EXUNL

HUB SIZE	A	B	C	D	E	F	G	H	J	K	CI
½"	3 31/32"	3⅛"	2 21/32"	2 1/16"	4	3⅜"	4¼"	1¼"	1 9/16"	17/64"	20.3
¾"	3 31/32"	3⅛"	2 21/32"	2 1/16"	4	3⅜"	4¼"	1¼"	1 9/16"	17/64"	20.3
1"	3 31/32"	3 5/16"	¾"	2¼"	4	3 9/16"	4¼"	1 1/16"	1 9/16"	17/64"	20.0







Dimensions of all styles when GAJ cover is used

GAC, GAL, GALB, GAT, GAX

COVER OPENING	HUB SIZE	A	B	C	D	E	F	G	H	J	K	L	CI
3 1/16"	½"	4"	2¼"	2 5/16"	1⅜"	1 1/16"	1 1/16"	5 3/16"	5 9/16"	4 3/16"	3 5/16"	9/16"	18.8
3 1/16"	¾"	4"	2¼"	2 5/16"	1⅜"	1 1/16"	1 1/16"	5 3/16"	5 9/16"	4 3/16"	3 5/16"	9/16"	18.8
3 1/16"	1"	4"	2¼"	2 5/16"	1⅝"	1 3/16"	2 7/32"	5½"	5 9/16"	4 3/16"	3 5/16"	9/16"	18.8
3 29/32"	1¼"	4 5/16"	3"	3 1/16"	2 1/16"	1 1/32"	⅞"	5 11/16"	–	4 9/16"	3 15/16"	⅝"	28.0
5 3/16"	1½"	5¾"	4¼"	5 1/16"	2⅞"	1 7/16"	⅞"	6⅝"	–	6 7/16"	5 15/32"	13/16"	69.3
5 3/16"	2"	5¾"	4¼"	5 1/16"	2⅞"	1 7/16"	⅞"	6⅝"	–	6 7/16"	5 15/32"	13/16"	69.3

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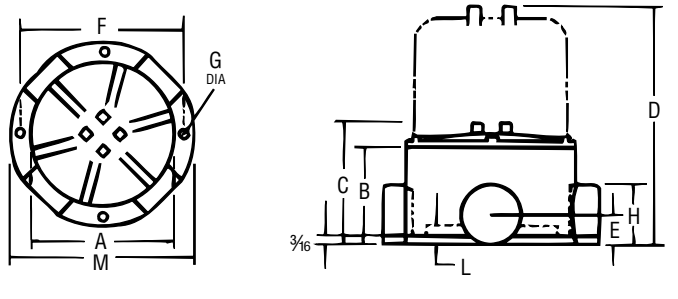
Aluminum Conduit Outlet Boxes Explosion-Proof, Dust-Ignition-Proof

Dimensions and Cubic Inches (CI)

CI.I, Div. 1 & 2, Groups C, D
CI.II, Div. 1, Groups E, F, G
CI.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

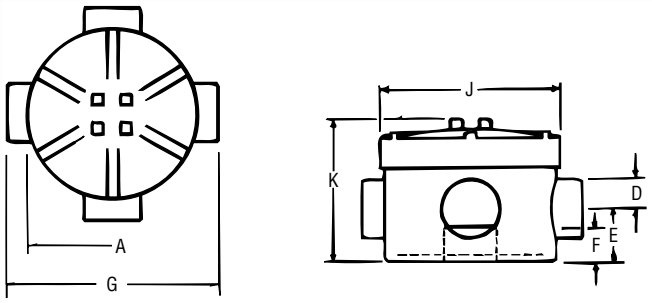
Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations



GAFX

COVER OPENING	HUB SIZE	A	B	C	D	E	F	G	H	L	M	CI
3 1/16"	1/2"	4"	2 1/4"	2 15/16"	5 9/16"	1 1/16"	4 1/2"	1/4"	1 3/8"	9/16"	5 3/16"	20.0
3 1/16"	3/4"	4"	2 1/4"	2 15/16"	5 9/16"	1 1/16"	4 1/2"	1/4"	1 3/8"	9/16"	5 3/16"	20.0
3 1/16"	1"	4"	2 1/4"	2 15/16"	5 9/16"	1 3/16"	4 3/4"	5/16"	1 5/8"	9/16"	5 1/2"	19.0

NOTE: All GAF units supplied as X configuration with proper number of explosion-proof close-up plugs to make C, T or L.



GAJU

COVER OPENING	HUB SIZE	A	D	E	F	G	J	K	CI
3 1/16"	1/2"	4"	13/16"	1 1/2"	31/32"	5 3/16"	4 3/16"	4"	23.8
3 1/16"	3/4"	4"	13/16"	1 1/2"	31/32"	5 3/16"	4 3/16"	4"	23.8
3 1/16"	1"	4"	13/16"	1 1/2"	31/32"	5 3/16"	4 3/16"	4"	23.8
3 29/32"	1 1/4"	4 5/16"	2 1/16"	1 13/32"	7/8"	5 11/16"	4 3/4"	3 15/16"	33.3
5 3/16"	1 1/2"	5 3/4"	1 7/16"	2 1/16"	1 1/2"	6 5/8"	6 7/16"	6 3/16"	82.8
5 3/16"	2"	5 3/4"	1 7/16"	2 1/16"	1 1/2"	6 5/8"	6 7/16"	6 3/16"	82.8

NOTE: All GA & GAF series boxes are supplied with GAS or GAJ style covers.

To order these boxes with GAD dome cover, consult factory.

Aluminum Conduit Outlet Boxes Explosion-Proof, Dust-Ignition-Proof

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

Application

- Junction for branch conduits in hazardous locations
- Accessible wiring chamber provides a convenient location to maintain or change a system, pull conductors and make splices
- Internal hub design ideal for installation where space is limited

Features/Benefits

- Copper-free* aluminum provides increased corrosion resistance
- Precision cast and machined surfaces permit safer wire pulling
- Precision NPT threaded hubs enable trouble-free field installation for rigid or IMC conduit
- Die cast construction and industrial design combine to produce a rugged protective enclosure for devices on industrial and OEM applications
- Clear UL, CSA and cubic content markings speed approval by inspectors

Standard Materials

- Die cast aluminum alloy A360 with less than .004 copper content (copper-free)

Standard Finish

- Aluminum lacquer finish

Compliances

- UL Listed
- CSA Certified
- Suitable for hazardous locations
- Federal Spec W-C-586

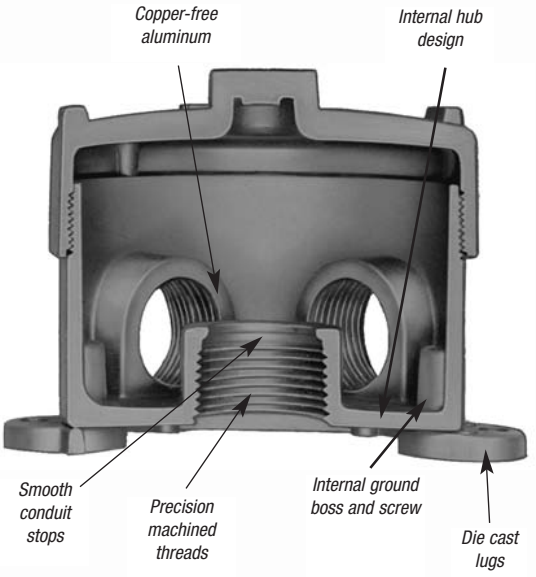
Sample Specifications

- Outlet boxes for hazardous locations shall be die cast copper-free* aluminum alloy A360 and suitable for use in Class I, Groups C, D, Class II, Groups E, F, G and Class III areas. All conduit stops shall be coined and free of rough edges. Outlet boxes for hazardous locations shall be finished with aluminum lacquer. Outlet boxes shall be Thomas & Betts Catalog No. _____

*Less than .004 copper content.

EXUN

EXUNL



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Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

Aluminum Conduit Outlet Boxes
Explosion-Proof, Dust-Ignition-Proof

EXUN-1

5 Hole Box

CAT. NO.	HUB SIZE	DESCRIPTION	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
EXUN-1	½"	5 outlets	1	5	140
EXUN-2	¾"	with 3 close-up plugs	1	5	140
EXUN-3	1"	with 3 close-up plugs	1	5	140

EXUN-11

4 Hole Box

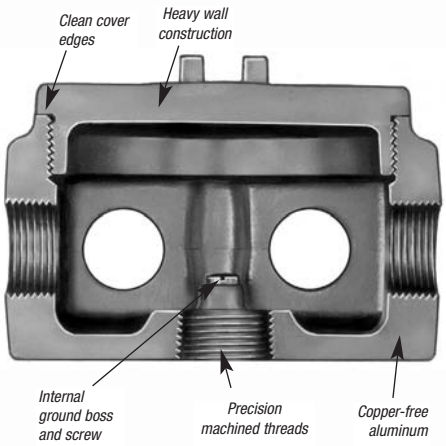
CAT. NO.	HUB SIZE	DESCRIPTION	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
EXUN-11	½"	4 outlets	1	5	140
EXUN-22	¾"	with 2 close-up plugs	1	5	—

Aluminum Conduit Outlet Boxes Explosion-Proof, Dust-Ignition-Proof

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

GASS



Application

- Junction for branch conduits in hazardous locations
- Accessible wiring chamber provides a convenient location to maintain or change a system, pull conductors and make splices

Features/Benefits

- Copper-free* aluminum alloy provides increased corrosion resistance
- Extra wide 3¾" opening provides more hand space for easy access to the wiring chamber
- Precision cast and machined surfaces permit safer wire pulling
- Large capacity 31 cu. in. chamber provides more wiring space
- Precision NPT threaded hubs enable trouble-free field installation for rigid or IMC conduit
- Sand cast construction and industrial design combine to produce a rugged protective enclosure for devices on industrial and OEM applications
- Clear UL, CSA and cubic content markings speed approval by inspectors
- Hub spacing enables use of EXFU and EXMU unions

Standard Materials

- Box —Sand Cast aluminum alloy A356. 2-T6
- Cover — Die Cast aluminum alloy A360 with less than .004 copper content (copper-free)

Standard Finish

- Aluminum lacquer finish

Compliances

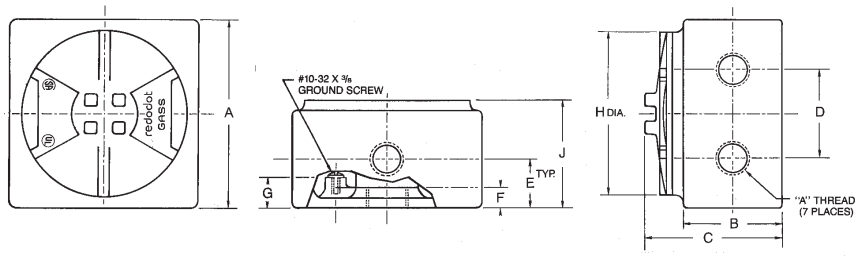
- UL Listed
- CSA Certified
- NEC

Sample Specifications

- Enclosure for hazardous locations. The box shall be cast copper-free* aluminum alloy A356.2-T6 . Suitable for use in hazardous locations: Suitable for use in Class I, Groups C, D; Class II, Groups E, F, G; and Class III areas. Enclosures shall be finished with aluminum lacquer. Outlet boxes shall be Thomas & Betts Catalog No. _____

*Less than .004 copper content.

GASS



Dimensions of all styles when GASS cover is used

COVER OPENING	HUB SIZE	A	B	C	D	E	F	G	H	J	CI
4"	½"	4⅝	2⅜	3⅜	2 3/16	1 3/16	½	¾	4	2⅝	31
4"	¾"	4⅝	2⅜	3⅜	2 3/16	1 3/16	½	¾	4	2⅝	31
4"	1"	4⅝	2⅜	3⅜	2 3/16	1 3/16	½	¾	4	2⅝	31

Internal Hubs with Installed Green Ground Screw, Cover and Plugs

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
GASS-1	½"	1	5	282
GASS-2	¾"	1	5	278
GASS-3	1"	1	5	274

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NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

Aluminum Conduit Outlet Bodies
Explosion-Proof, Dust-Ignition-Proof

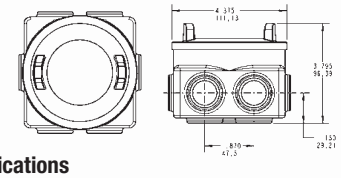
Perfect for the petrochemical industry!

GUP Explosion-Proof Enclosure

T&B has developed an innovative new solution ideally suited for gas station contractors and the petrochemical market — the GUP Explosion-Proof Enclosure. The compact design makes gas station pumps an ideal application due to space constraints. Two different configurations are available and the body is constructed of ductile iron for superior strength. Rely on T&B to deliver the best products when safety is a concern.

Features

- Compact design
- O-ring gasket standard for raintight applications
- Supplied with conduit plugs
  - — 3 plugs for GUP215-TB
  - — 7 plugs for GUP214-TB



Specifications

Materials:

Ductile iron for superior strength (Body)
Copper-free cast aluminum (A6) (Cover)
Neoprene gasket (O-Ring)

Standard Finish:

Ductile iron — Electrogalvanized and aluminum acrylic paint
Copper-free aluminum cover — Natural

Certifications:

Class I Divisions 1 & 2, Groups C, D
Class II, Divisions 1 & 2 Groups E, F, G
Class III Rated
UL886 Listed
CSA Standard C22.2

NEW!

CAT. NO.	DESCRIPTION	STD. PKG. QTY.
GUP214-TB	Junction Box — 10 Hubs (¾" NPT): 2 in top, 2 in bottom, 1 in each side, 4 in the back	1
GUP215-TB	Junction Box — 6 Hubs (¾" NPT): 2 in top, 2 in bottom, 1 in each side	1

Application

- Junction for branch conduits
- Accessible wiring chamber provides a convenient location to pull conductors and make splices

Features/Benefits

- Copper-free* aluminum provides increased corrosion resistance
- Precision cast and machined surfaces permit safer wire pulling
- Precision NPT threaded hubs enable trouble-free field installation for rigid or IMC conduit
- Deep slotted cover screws for faster installation
- Clear UL, CSA and cubic content markings speed approval by inspectors

Standard Materials

- Die cast aluminum alloy A360 with less than .004 copper content (copper-free)

Standard Finish

- Aluminum lacquer finish

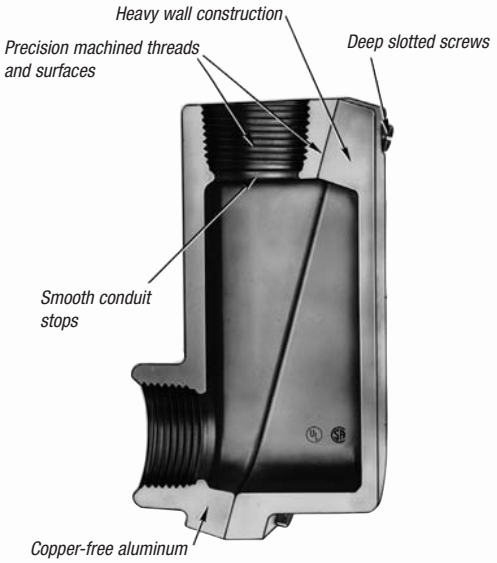
Compliances

- UL Listed
- CSA Certified
- Suitable for hazardous locations

Sample Specifications

- Conduit fittings for hazardous locations shall be die cast copper free* aluminum alloy A360. Suitable for use in hazardous locations: Class I, Groups C, D; Class II, Groups E, F, G and Class III. All conduit stops shall be coined and free of rough edges. Conduit fittings shall be finished with aluminum lacquer. Conduit fittings shall be Red•Dot® Catalog No. _____

Less than .004 copper content.



EXLB

EXT

LB Style Conduit Body — Aluminum

CAT. NO.	HUB SIZE	STD. PKG.	WT. LBS. PER 100
EXLB-1	½"	5	76
EXLB-2	¾"	5	94
EXLB-3	1"	5	132

T Style Conduit Body — Aluminum

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
EXT-1	½"	5	25	92
EXT-2	¾"	5	25	115
EXT-3	1"		5	172

Conduit Outlet Bodies
Explosion-Proof, Dust-Ignition-Proof

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

Application

OE series are installed in conduit systems within hazardous areas to:

- Protect conductors in threaded rigid conduit
- Act as pulling and splice fittings
- Interconnect lengths of conduit
- Change direction of conduit
- Provide access for maintenance and future system changes

Features

OE conduit bodies have:

- Tapered threaded hubs for ground continuity
- Smooth integral hub bushings to protect conductor insulation when pulling
- Five different hub arrangements
- Accurately machined body with blind tapped screw holes
- Most compact design of all hazardous area outlet bodies
- Sizes up to 1"

Standard Materials

- Bodies: Grade 60-45-10 Ductile Iron (Complies with ASTM standard A536)

Standard Finish

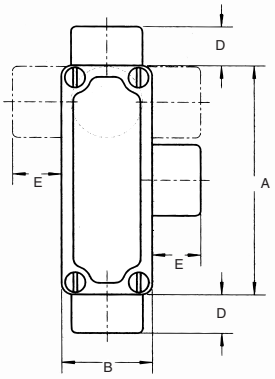
- Electrogalvanized and aluminum acrylic paint

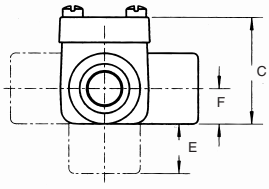
Size Ranges

- Hub — ½" and ¾"

Certifications and Compliances

- NEC/CEC:
  Class I, Division 1 & 2, Groups C, D
  Class II, Division 1, Groups E, F, G
  Class II, Division 2, Groups F, G
  Class III





OE Series — Iron Conduit Outlet Bodies

CAT. NO.	HUB SIZE	A	B	C	D	E	F
OEC1-TB	½"	4.06	1.62	1.90	0.69	0.88	0.63
OEC2-TB	¾"	4.35	1.88	2.19	0.69	0.88	0.76
OET1-TB	½"	4.06	1.62	1.90	0.69	0.88	0.63
OET2-TB	¾"	4.35	1.88	2.19	0.69	0.88	0.76
OELL1-TB	½"	4.06	1.62	1.90	0.69	0.88	0.63
OELL2-TB	¾"	4.35	1.88	2.19	0.69	0.88	0.76
OELR1-TB	½"	4.06	1.62	1.90	0.69	0.88	0.63
OELR2-TB	¾"	4.35	1.88	2.19	0.69	0.88	0.76
OELB1-TB	½"	4.06	1.62.	1.90	0.69	0.88	0.63
OELB2-TB	¾"	4.35	1.88	2.19	0.69	0.88	0.76

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Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

Conduit Outlet Elbows
Explosion-Proof, Dust-Ignition-Proof

Provides maximum volume for bends within a compact overall size!

Capped Iron Elbow — Female to Female

LBY

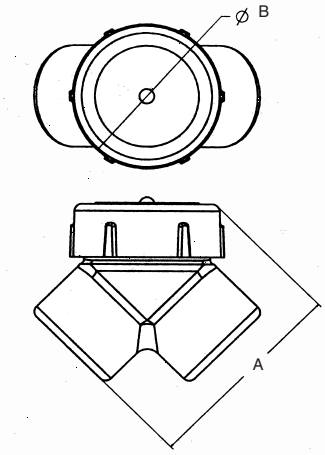
Application

LBY/GYF elbows are installed in conduit systems within hazardous areas to:

- Make 90° bends in conduit systems where space is limited
- Act as pull outlets
- Provide access to conductors for maintenance and future system changes

Features

- Maximum volume for bends within a compact overall size
- Screw on cover for ease of installation and removal
- Cover opening on an angle, permitting conductors to be pulled straight through either hub
- Tapered threaded hubs and integral bushing for rigid threaded conduit
- Standard materials: LBY Ductile Iron
  GYF Copper Free Aluminum



LBY —

Class I, Division 1 & 2, Groups C, D
Class II, Division 1, Groups F, G
Class III

Class I, Division 1 & 2, Groups C, D
Class II, Division 1, Groups F, G
Class III

CAT. NO.	HUB SIZE	A	B	THROAT DIM. MIN.	THROAT DIM. MAX.
LBY15-TB	½"	2 9/16	2	0.570	0.610
LBY25-TB	¾"	2 13/16	2¼	0.755	0.810
LBY35-TB	1"	3 3/32	2½	0.955	1.035
LBY45-TB	1¼"	3¾	2 15/16	1.260	1.360
LBY55-TB	1½"	4¼	3⅜	1.470	1.590
LBY65-TB	2"	5½	4	1.880	2.047

GYF

Capped Aluminum Elbow — Female to Female

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
GYF-1	½"	10	50	23
GYF-2	¾"	5	25	40
GYF-3	1"	5	25	60
• GYF-4	1¼"	2	10	80
GYF-5	1½"	2	10	95

• *Made to order items. Consult factory for lead time and minimum quantities.*

RE, PLG, REC Reducers, Plugs and Adapters
Explosion-Proof, Dust-Ignition-Proof

Cl.I, Div. 1 & 2, Groups A, B, C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2

Explosion-Proof
Dust-Ignition-Proof

Application
- RE and REC reducers are used in threaded heavy wall conduit systems
- RE reduces conduit hubs to a smaller size
- REC connects two different sizes of conduit together or is used to replace a coupling and reducer in an installation
- PLG plugs are used for closing threaded conduit hubs

Features
- All Hubs have NPT threads with a minimum of five full threads and integral bushing for preventing damage to wires

Materials
- Machined Reducers: Steel
- Cast Reducers: Gray Iron
- Funnel Reducers: Iron
- Recessed Plugs: Gray Iron
- Red•Dot® Recessed Plugs: Copper-free Aluminum

Standard Finishes
- Cast zinc-plated with aluminum acrylic paint
- Machine zinc-plated with clear chromate finish

Listing Certifications
- UL: 886
- CSA: C22.2 No.30
- NEC/CEC: Cl.I, Div. 1 & 2, Groups A, B, C, D
  Cl.II, Div. 1, Groups E, F, G Cl.III

For hazardous and non-hazardous locations

Recessed Plugs

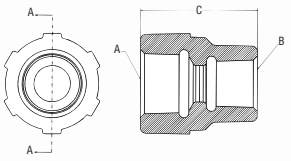
CAT. NO.	THREADS (NPT)
With Flush Head for Hazardous and Non-Hazardous Locations	
PLG1-TB	½
PLG2-TB	¾
PLG3-TB	1
PLG4-TB	1¼
PLG5-TB	1½
PLG6-TB	2
PLG7-TB	2½
PLG8-TB	3
PLG9-TB	3½
PLG10-TB	4

Reducing Bushings

CAT. NO.	A MALE (NPT)	B FEMALE (NPT)
RE21-TB	¾	½
RE31-TB	1	½
RE32-TB	1	¾
RE41-TB	1¼	½
RE42-TB	1¼	¾
RE43-TB	1¼	1
RE51-TB	1½	½
RE52-TB	1½	¾
RE53-TB	1½	1
RE54-TB	1½	1¼
RE61-TB	2	½
RE62-TB	2	¾
RE63-TB	2	1
RE64-TB	2	1¼
RE65-TB	2	1½

CAT. NO.	A MALE (NPT)	B FEMALE (NPT)
RE73-TB	2½	1
RE74-TB	2½	1¼
RE75-TB	2½	1½
RE76-TB	2½	2
RE83-TB	3	1
RE84-TB	3	1¼
RE85-TB	3	1½
RE86-TB	3	2
RE87-TB	3	2½
RE96-TB	3½	2
RE97-TB	3½	2½
RE98-TB	4	3
RE106-TB	4	2
RE107-TB	4	2½
RE108-TB	4	3

REC Series Reducers



CAT. NO.	A (NPT)	B (NPT)	C
Funnel-Shaped Reducers for Hazardous and Non-Hazardous Locations			
REC21-TB	¾	½ - 14	1⅞
REC31-TB	1	½ - 14	2
REC32-TB	1	¾ - 14	2

Aluminum Recessed Plugs

CAT. NO.	HUB SIZE
With Flush Head for Hazardous and Non-Hazardous Locations	
XPLG-1†	½"
XPLG-2†	¾"
XPLG-3†	1"
XPLG-4*	1¼"
XPLG-5*	1½"
XPLG-6*	2"
XPLG-7*	2½"
XPLG-8*	3"
XPLG-9*	3½"
XPLG-10*	4"

Made to order items. Consult factory for lead time and minimum quantities.

† *Not UL Listed*

* *UL Listed E 34438*

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Three-Piece Couplings Explosion-Proof, Dust-Ignition-Proof

Cl.I, Div. 1 & 2, Groups A, B, C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2

Explosion-Proof
Dust-Ignition-Proof

Application

UNY and UNF unions are installed in threaded thickwall conduit systems:

- UNY — to connect conduit to a conduit fitting, junction box, or device enclosure
- UNF — to connect conduit to conduit, or to provide a means for future modification of the conduit system

Standard Finishes

- Steel — electrogalvanized with chromate treatment
- Iron alloy, malleable iron — electrogalvanized and aluminum acrylic paint

Certifications and Compliances*

- NEC/CEC

  Class I, Division 1 & 2, Groups A, B, C, D
  Class II, Division 1, Groups E, F, G
  Class III

  UNF, UNY ½" – 1"

- UL – Conduit unions for use in Cat. Nos. UNF/UNY followed by 105, 205, or 305; for use in:

  Class I, Division 1 & 2, Groups A, B, C, D
  Class II, Division 1, Groups E, F, G
  Class III

  UNF, UNY ½", ¾", 1"

- CSA — Conduit unions for use in Cat. Nos. UNF/UNY followed by 105, 205, 305, 405 or 505; for use in:

  Class I, Division 1 & 2, Groups B, C, D
  Class II, Division 1, Groups E, F, G
  Class III

  UNF, UNY ½", ¾", 1", 1¼", 1½"

- UL — Conduit unions for use in Cat. Nos. UNF/UNY followed by 405 or 505; for use in:

  Class I, Division 1 & 2, Groups B, C, D
  Class II, Division 1, Groups E, F, G
  Class III

  UNF, UNY 1¼", 1½"

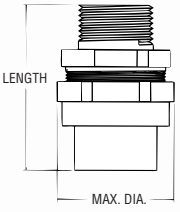
- UL & CSA — Conduit unions for use in Cat. Nos. UNF/UNY, EL Series followed by 605, 905, or 1005; for use in:

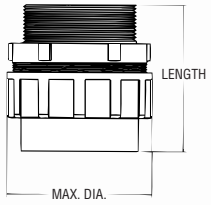
  Class I, Division 1 & 2, Groups C, D
  Class II, Division 1, Groups E, F, G
  Class III

  UNF,UNY 2", 2½", 3", 3½", 4"

UNY Male Unions

UNY

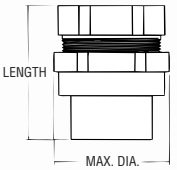


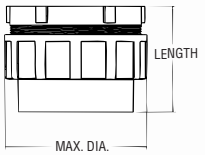


CAT. NO.	TR SIZE	OVERALL LENGTH/INCHES	OVERALL DIA./INCHES
For Hazardous and Non-Hazardous Locations			
UNY105-TB	½	2 25/64	1½
UNY205-TB	¾	2 7/16	1 13/16
UNY305-TB	1	2¾	2
UNY405-TB	1¼	3 1/16	2¾
UNY505-TB	1½	3⅝	3 1/16
UNY605-TB	2	3½	3 13/16
UNY705-TB	2½	4 13/16	4 5/16
UNY805-TB	3	5 1/32	5 1/16
UNY905-TB	3½	5½	5 11/16
UNY1005-TB	4	5⅝	6 3/16

UNF Female Unions

UNF





CAT. NO.	TR SIZE	OVERALL LENGTH/INCHES	OVERALL DIA./INCHES
For Hazardous and Non-Hazardous Locations			
UNF105-TB	½	1⅞	1½
UNF205-TB	¾	2⅛	1 13/16
UNF305-TB	1	2 5/32	2
UNF405-TB	1¾	2¼	2¾
UNF505-TB	1½	2¾	3 1/16
UNF605-TB	2	2½	3 13/16
UNF705-TB	2½	3½	4 5/16
UNF805-TB	3	4	5 1/16
UNF905-TB	3½	4 5/32	5 11/16
UNF1005-TB	4	4¼	6 3/16

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Aluminum Three-Piece Couplings
Explosion-Proof, Dust-Ignition-Proof

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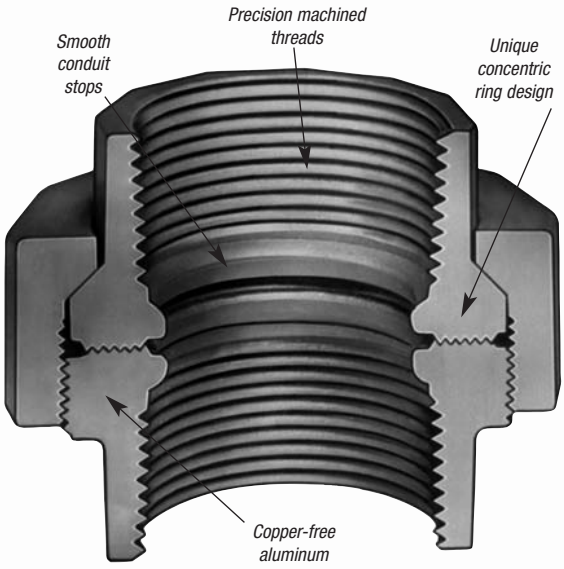
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

EXFU EXMU



Application

- Unions are used as connecting elements between enclosures, fittings or boxes that permit future changes to the system in both hazardous and non-hazardous areas

Features/Benefits

- Copper-free* aluminum provides increased corrosion resistance
- Precision cast and machined surfaces permit safer wire pulling
- Precision NPT threaded hubs allow trouble-free field installation for rigid or IMC conduit
- Clear UL, CSA and cubic content markings speed approval by inspectors
- Unique concentric ring design insures critical flame path control

Standard Materials

- Die cast aluminum alloy A360 with less than .004 copper content (copper-free)
- EXMU nipples are galvanized steel

Standard Finish

- Aluminum lacquer finish

Compliances

- UL Listed
- CSA Certified
- Suitable for hazardous locations
- Federal Spec W-C-586

Sample Specifications

- Conduit unions for hazardous locations shall be die cast copper-free* aluminum alloy A360. Suitable for use in hazardous locations: Class I, Groups C, D; Class II, Groups E, F, G and Class III. All conduit stops shall be coined and free of rough edges. Conduit unions shall be finished with aluminum lacquer. Conduit unions shall be Thomas & Betts® Catalog No. _____

Less than .004 copper content.

EXFU

EXMU

Male and Female Unions

Female to Female

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
EXFU-1	½"	5	25	24
EXFU-2	¾"	5	25	33
EXFU-3	1"	5	25	42
EXFU-4	1¼"	5	25	53
EXFU-5	1½"	5	25	68
• EXFU-6	2"	2	10	130
• EXFU-7	2½"	2	10	270
• EXFU-8	3"	1	5	310
• EXFU-9	3½"	1	5	340
• EXFU-10	4"		1	374

Male to Female

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS.PER 100
EXMU-1	½"	5	25	24
EXMU-2	¾"	5	25	35
EXMU-3	1"	5	25	45

• *Made to order items. Consult factory for lead time and minimum quantities.*

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Cl.III, Div. 1 & 2
NEMA 3, 4, 7 CD, 9 EFG

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

Elbows
Explosion-Proof, Dust-Ignition-Proof

Application

EYD drain and inspection sealing fittings:

- Restrict the passage of gases, vapors or flames from one portion of the electrical installation to another at atmospheric pressure and normal ambient temperatures
- Limit explosions to the sealed-off enclosure
- Prevent precompression or "pressure piling" in conduit systems. Drain sealing fittings are installed in vertical conduit runs and at low points in conduit systems to prevent accumulation of condensate above seal

Features:

EYD drain sealing fittings include:

- Drain to provide continuous, automatic drainage of condensate
- Large openings with threaded closures to provide easy access to conduit hubs for making dams
- Integral bushings to protect conductor insulation from damage
- Tapered-tapped hubs to ensure ground continuity

Standard Materials

- Bodies, and inspection or drain covers — Gray iron alloy and/or ductile iron
- Closure for drain — copper-free aluminum or ductile iron
- Small closure plug — Gray iron alloy and/or steel
- Drain — stainless steel
- Removable nipples — steel

Standard Finish

- Gray iron alloy and ductile iron — electrogalvanized and aluminum acrylic paint
- Copper-free aluminum — natural
- Stainless steel — natural
- Steel — electrogalvanized

Options

- Copper-free aluminum bodies, nipples and enclosures — see listings

Size Ranges

- EYD — ½"–4"

Certifications and Compliances*

NEC/CEC:

- EYD11 — 31-TB

  Class I, Division 1 & 2, Groups A,B,C,D. Class II, Division 1, Groups E, F, G. Class III.
- EYD41 — 101-TB

  Class I, Division 1 & 2, Groups C,D. Class II, Division 1, Groups E, F, G.

  Class II, Division 2, Groups F, G.

  Class III
- UL Standard: 886
- CSA Standard: C22.2

Sealing Compound and Fibers

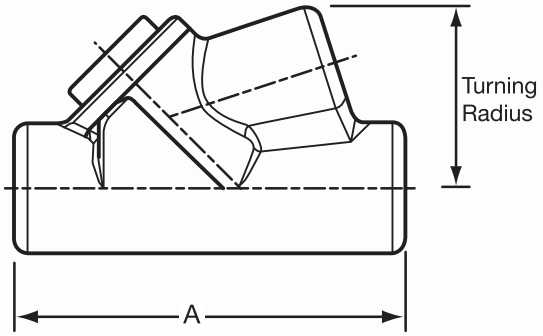
- Seal A3 (1 lb. can of sealing compound)
- Fiber X6 (8 oz. fiber packing)
- Sealkit (1 lb. can of sealing compound and 1 oz. fiber packing)

Sealing Fittings Explosion-Proof, Dust-Ignition-Proof

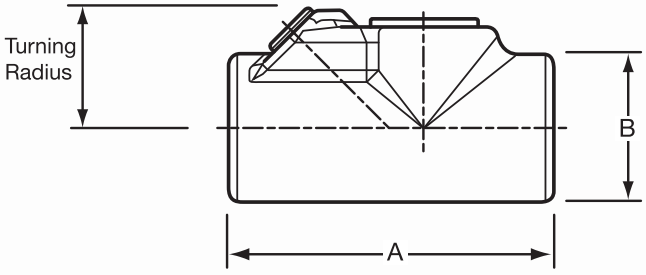
EYD Drain Seals

CAT. NO.	SIZE	A	B	TURNING RADIUS
EYD11-TB	½"	3.81	1.50	1.75
EYD21-TB	¾"	4.08	1.75	1.98
EYD31-TB	1	4.85	2.19	2.19
EYD41-TB	1¼"	5.00	2.25	1.80
EYD51-TB	1½"	5.44	2.44	2.00
EYD61-TB	2	6.25	3.00	2.32
EYD71-TB	2½"	7.50	3.50	2.69
EYD81-TB	3	8.50	4.25	3.15
EYD91-TB	3½"	9.19	4.75	3.38
EYD101-TB	4	9.75	5.25	3.64

Cl. I, Div. 1 & 2, Groups A, B, C, D
Cl. II, Div. 1, Groups E, F, G
Cl. III, Div. 1 & 2



EYD ½" — 1"



EYD 1¼" — 4"

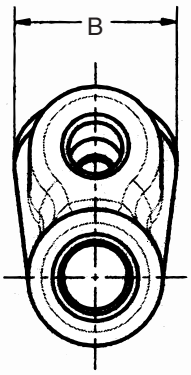
Drains/Breathers for Hazardous Locations

CAT. NO.	SIZE	DIM. "D"
ECD15	½"	.975
ECD384	⅜"	.407
ECD284	¼"	.327

Application

The Thomas & Betts Universal drain/breather fittings can be used as drains or breathers depending on the installation.

- To use as a drain, the product must be installed in the bottom of the enclosure or the lowest point where an NPT threaded opening exists. It can also be used in a seal fitting or a "T" conduit body. These must be in a lower section of the conduit system. This will enable moisture inside the conduit system to drain out
- To use as a breather, installation should be done at the top of an enclosure or in upper sections of conduit systems. This will permit air exchange and keep moisture accumulation inside the conduit system to a minimum, Thomas & Betts recommends the use of at least 2 devices (one drain and one breather) for maximum efficency



EYD ½" — 1"

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Sealing Fittings Explosion-Proof, Dust-Ignition-Proof

EYS Sealing Fittings

Application

EYS sealing fittings can be installed in either vertical or horizontal applications.

- Seals sections of conduit runs from passage of vapors, flame, or gases
- Seals off sections of conduit system during explosion
- Limits precompression or pressure piling in conduit system

Features

- All hubs have a minimum of five full threads, integral bushings to protect conductor insulation from damage, and large access openings for easier packing of sealing medium
- Seals are approved to be used with Crouse-Hinds® Sealing Compound and Fiber

Size Range

- ½" NPT to 4" NPT

Materials

- Bodies: Ductile Iron
- Plugs: Gray Iron
- Nipples: Steel, supplied with EYS fittings

Finish

- Bodies: Zinc-plated with aluminum acrylic paint
- Plugs: Zinc-plated with aluminum acrylic paint
- Nipples: Zinc-plated

Listing Certifications and Compliances

- UL886
- CSA: C22.2 No. 30
- EYS seals are approved to be used with Crouse-Hinds® Chico® A compound and Chico® X fiber.

Sealing Compound and Fibers

- Seal A3 (1 lb. can of sealing compound)
- Fiber X6 (8 oz. fiber packing)
- Sealkit (1 lb. can of sealing compound and 1 oz. fiber packing)

NEC/CEC:

EYS1-3TB*

Cl. I, Div. 1 & 2, Groups A, B, C, D

EYS4-5TB*

Cl. I, Div. 1 & 2, Groups C, D

EYS11-31TB*

Cl. I, Div. 1 & 2, Groups A, B, C, D

Cl. II, Div. 1, Groups E, F, G

Cl. III

EYS41-101TB*

Cl. I, Div. 1 & 2, Groups C, D

Cl. II, Div. 1, Groups E, F, G

Cl. III

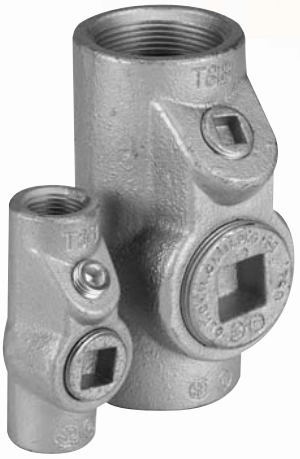
Cl. I, Div. 1 & 2, Groups A, B, C, D*

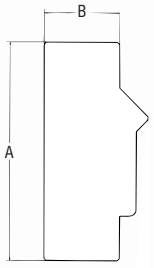
Cl. II, Div. 1, Groups E, F, G

Cl. III, Div. 1 & 2

Explosion-Proof

Dust-Ignition-Proof

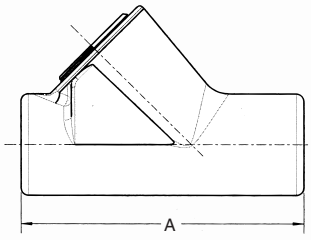


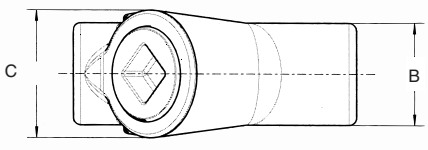


EYS11-TB – EYS101-TB

EYS Sealing Fittings

CAT. NO.	HUB SIZE	DIMENSIONS (IN.) A	B	C	TURNING RADIUS
Verticle only					
EYS1-TB	½"	3.31	1.25	1.50	1.66
EYS2-TB	¾"	3.65	1.50	1.75	1.96
EYS3-TB	1	4.25	1.75	2.19	2.40
EYS4-TB	1¼"	5.00	2.25	2.45	3.11
EYS5-TB	1½"	5.69	2.45	3.00	3.62
Horizontal/Verticle					
EYS11-TB	½"	3⅜	1¼	–	1⅜₃₂
EYS21-TB	¾"	3y	1½	–	1¼
EYS31-TB	1	4¼	1¾	–	1⁹⁄₃₂
EYS41-TB	1¼"	5	2¼	–	1¾₁₆
EYS51-TB	1½"	5⁷⁄₁₆	2⁷⁄₁₆	–	2
EYS61-TB	2	6¼	3	–	2⅝₁₆
EYS71-TB	2½"	7½	3½	–	2⅝₁₆
EYS81-TB	3	8½	4¼	–	3⅜₂
EYS91-TB	3½"	9⅜₁₆	4¾	–	3⅜
EYS101-TB	4	9¾	5¼	–	3¹⁷⁄₃₂





EYS1-TB – EYS5-TB

Crouse-Hinds® and Chico® are trademarks of Cooper Industries, Inc.

Sealing Fittings Explosion-Proof, Dust-Ignition-Proof

EYVF

EVHF

EVHF

EVHF-1 through -3

EVHF-4 through -10

Application

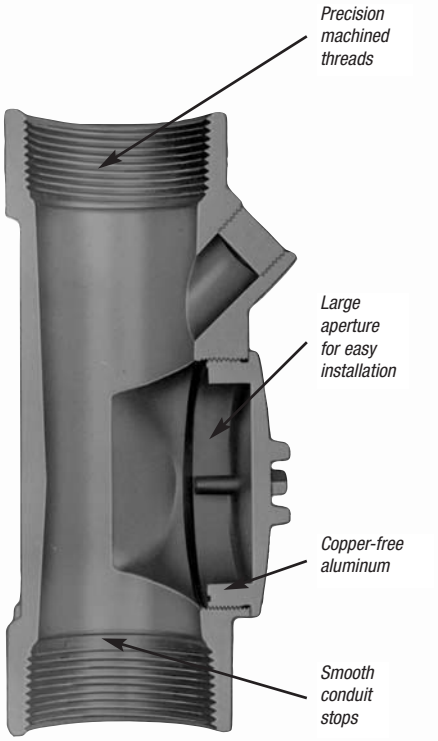
- Limits flames and/or explosions to area within electrical system where they originate
- Limits pressure piling
- Required by NEC for conduit systems in hazardous locations 18" from an enclosure housing a heat producing or arcing device; on 2" and larger system that enters an enclosure containing splices; wherever conduit leaves a Class I, Division I area and enters a non-hazardous area

Features/Benefits

- Copper-free* aluminum provides increased corrosion resistance
- Precision cast and machined surfaces permit safer wire pulling
- Precision NPT threaded hubs enable trouble-free field installation for rigid or IMC conduit
- Large opening provides maximum working room for creating dam and seal pouring to speed up installation
- Compact design permits close construction of parallel conduit runs

Standard Materials

- Sealing Fittings: Die cast aluminum alloy A360 with less than .004 copper content (copper-free)
- Sealing Cement
- Fiber: Flame retardant Kaowool Type A fiber



Standard Finish

- Aluminum lacquer finish

Compliances

- UL Listed
- CSA Certified
- Suitable for hazardous locations
- Federal Spec W-C-586

Sample Specifications

- Sealing fittings for hazardous locations shall be die cast copper — free* aluminum alloy A360. Suitable for use in hazardous locations: Class I, Groups C, D; Class II, Groups E, F, G and Class III. All conduit stops shall be coined and free of rough edges. Sealing fittings for hazardous locations shall be finished with aluminum lacquer. Sealing fittings shall be Thomas & Betts Catalog No. _____

*Less than .004 copper content.

Cl.I, Div. 1 & 2, Groups C, D Cl.II, Div. 1, Groups E, F, G Cl.III, Div. 1 & 2	Explosion-Proof Dust Ignition-Proof Raintight Wet Locations
NEMA 3, 4, 7 CD, 9 EFG	

Vertical

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
† EYVF-1	½"	5	25	50
† EYVF-2	¾"	5	25	54
† EYVF-3	1"	5	25	100
EYVF-11	½"	10	50	35
EYVF-22	¾"	10	50	40
EYVF-33	1"	4	20	60

Vertical/Horizontal

CAT. NO.	HUB SIZE	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
EVHF-1	½"	10	50	41
EVHF-2	¾"	5	25	50
EVHF-3	1"	5	25	60
EVHF-4	1¼"	4	20	70
EVHF-5	1½"	1	5	60
EVHF-6	2"	1	1	125
• EVHF-7	2½"	1	1	150
• EVHF-8	3"	1	1	250
• EVHF-9	3½"	1	1	300
• EVHF-10	4"	1	1	400

• Made to order items. Consult factory for lead time and minimum quantities.

† Packaged with an adequate amount of sealing compound and plugs installed.

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Fax: 450.347.1976

Technical Services
Tel: 888.862.3289

Sealing Fittings Explosion-Proof, Dust-Ignition-Proof

Preparation

Applications

Red•Dot® sealing cement is used for making seals in sealing fittings. The insulation in the conductors sealed in the cement may be approved thermoplastic or rubber, with or without lead covering. The sealing cement should not be used for insulating.

Characteristics

Red•Dot® sealing cement is not affected by gasoline, alcohol, acetone, ether, naptha, petroleum, benzol or lacquer solvent.

Preparation

(1) Use a clean mixing vessel for each batch.

(2) Thoroughly mix powder before adding water.

(3) Do not use if temperature is below 40° F.

(4) Mix 1 part water to 2 parts cement.

(5) Allow cement to set for 72 hours before use.

Standard Dams

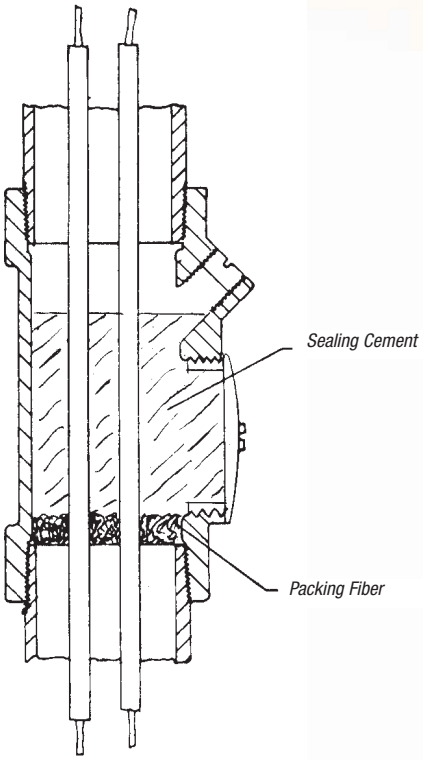
(1) Push the conductors away from the filling opening and force them apart so that they do not touch each other or the walls of the fitting or conduit along their length. If the conductors do touch, the sealing cement will not form a closed path between them.

(2) Force the packing fiber between each conductor and the inside walls. Be sure that the dam is strong enough and tight enough to prevent the considerable weight of the fluid sealing cement from seeping out.

Pouring

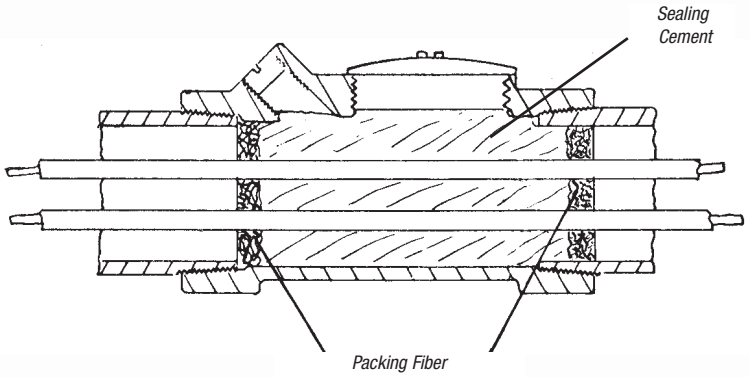
(1) Pour the mixed cement into the fitting slowly so as not to trap air in the seal.

(2) Replace the close-up plugs to ensure that they engage not less than 5 full threads.



Vertical Installation for EYVF or EVHF Fittings

Cl.I, Div. 1 & 2, Groups C, D	Explosion-Proof
Cl.II, Div. 1, Groups E, F, G	Dust-Ignition-Proof
Cl.III, Div. 1 & 2	Raintight
NEMA 3, 4, 7 CD, 9 EFG	Wet Locations



Horizontal EVF Installation

Sealing Fittings Explosion-Proof, Dust-Ignition-Proof

Sealing Cement and Fiber for Thomas & Betts Sealing Fittings

Cl.I, Div. 1 & 2, Groups C, D
Cl.II, Div. 1, Groups E, F, G
Cl.III, Div. 1 & 2

Explosion-Proof
Dust-Ignition-Proof
Raintight
Wet Locations

EXSC

Sealing Cement

- Can be used on Red•Dot® EYV, EVH series fittings only

CAT. NO.	QUANTITY	VOLUME CUBIC INCHES	STD. PKG.	WT. LBS PER 100
EXSC-2	3.2 oz.	2.75"	25	20
EXSC-8	13 oz.	11.50"	15	81
EXSC-16	1 lb., 10 oz.	23.00"	10	163

Packing Fiber

- Can be used on Red•Dot® EYV, EVH series fittings only

EXPF

CAT. NO.	QUANTITY	VOLUME CUBIC INCHES	STD. PKG.	WT. LBS PER 100
EXPF-16	1 lb.		1	112

Approximate Amount of Cement and Fiber Required per Hub.

CAT. NO.	HUB SIZE	CEMENT QUANTITY	FIBER QUANTITY
EYVF-11	½"	2 oz.	1/32 oz.
EYVF-22	¾"	3 oz.	1/16 oz.
EYVF-33	1"	4 oz.	⅛ oz.
EVHF-1	½"	2 oz.	1/32 oz.
EVHF-2	¾"	2 oz.	1/32 oz.
EVHF-3	1"	4 oz.	¼ oz.
EVHF-4	1¼"	4 oz.	¼ oz.
EVHF-5	1½"	6 oz.	½ oz.
EVHF-6	2"	12 oz.	1 oz.
EVHF-7	2½"	15 oz.	1½ oz.
EVHF-8	3"	40 oz.	2 oz.
EVHF-9	3½"	45 oz.	3 oz.
EVHF-10	4"	50 oz.	4 oz.

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Kopr-Shield® Compound

The copper colloidal surface treatment that protects, lubricates and enhances conductivity between all electrical connections.

Kopr-Shield® Compound

Good connections are one of the most important aspects of electrical work. Mechanics know how much downtime is caused when fluids or oils leak into the raceway system or when looking for a weak link in a ground system caused by a high resistance connection. Mechanics also know how much time is spent keeping contacts, switches, lugs and other connectors clean or replacing parts because of "green scourge" buildup. Thomas & Betts has the solution to improve connections made in thousands of electrical and raceway installations made each day by electricians everywhere.

Kopr-Shield® compound is a unique homogenized blend of pure, polished colloidal copper, rust and corrosion inhibitors that simultaneously protects, lubricates and enhances the conductivity of the mating surfaces to which it is applied. Extremely adhesive, Kopr-Shield® compound flows smoothly into uneven contours and voids, making application easy, protection and lubrication complete and positive. A stable compound, it will not settle-out, thin, thicken, harden, or dry out under the most severe environmental conditions.

Kopr-Shield® Compound has excellent temperature characteristics — brushed on at -50˚ F to 250˚ F (other compounds either turn solid or run like water at these extremes). Even at 1800˚ F, Kopr-Shield® remains intact for short terms.

Kopr-Shield® Compound may be used to advantage in all electrical installations. When the environment is hostile to good electrical and mechanical connections, Kopr-Shield® Compound is a must!

Kopr-Shield® by Thomas & Betts meets the requirements of Section 300.6(A) in the 2002 NEC Code for Protection Against Corrosion.

"Where corrosion protection is necessary and the conduit is threaded in the field, the threads shall be coated with an approved electrically conductive, corrosion-resistant compound."

Use Kopr-Shield® Compound for Battery Lugs and Cables

- Prevention of "Green Scourge" corrosion
- Reduction of resistance
- Ease of terminal installation and removal

Use Kopr-Shield® Compound for Raceways.

- Lubrication — ease of assembly and disassembly
- Grounding continuity improved — exceeds code requirements

Use Kopr-Shield® Compound for Fuse Clips.

- Even heat distribution — elimination of hot spots
- Oxidation Prevention — prevents carbon path formation
- Lubrication — easy installation and removal of fuses

Use Kopr-Shield® Compound for Wiping Contacts, Drum Switches and Slip Rings.

- Prevention of galling, burning, pitting and discoloration
- Suppression of arching and dissipation of coronas
- Lubrication for ease of operation

CAT. NO.	DESCRIPTION	STD. PKG.	WT. LBS./C
201-31879	1½ oz. Container with brush	96	11.46
201-31879-1	4 oz. Container with brush	24	38.54
CP8-TB	8 oz. Container with brush	12	64.58
CP16	16 oz. Container with brush	12	120.83
CP128	1 Gallon can	4	952.00

Kopr-Shield® is a trademark of Jet Lube, Inc.

Metal Clad Cable Termination Fittings

Metal Clad Cable Teck Cable Aluminum Sheathed Cable

Metal Clad Cable (Type MC) Ref. NEC Article 334*

"Metal Clad Cable Type MC is a factory assembly of one or more conductors, each individually insulated and enclosed in a metallic sheath of interlocking tape, or a smooth or corrugated tube."

Metal Clad Cable Type MC is rated for use up to 5,000 volts. The National Electrical Code permits use of metallic sheath as an equipment grounding conductor.

Metal Clad Cables are available with a variety of phase conductor insulations such as crosslinked polyethylene, and silicone rubber ethylene propylene, depending on rated temperature of conductors and working potential. Metallic sheath can be of galvanized steel, aluminum, copper or bronze. A special outer covering such as PVC or Neoprene over metallic sheath is usually provided for environmental protection.

Metal clad cable is not permitted in locations where it could be subject to physical damage. Metal clad cable can be used exposed, concealed, in cable tray, in any approved raceway, and with minor exceptions in hazardous locations. Type MC cable can also be used for services, feeders, branch circuits, power, lighting, control and signal circuits.

Use of metal clad cable is permitted in wet locations, or where exposed to destructive corrosive conditions or can be directly buried in earth, concrete or exposed to cinder fills, strong chlorides, caustic alkalis, vapors, chlorine or hydrochloric acids provided the construction of cable, the conductors within the metallic sheath, the metallic sheath and protective cover over metallic sheath comply with requirements enumerated in Sec. 334-3 of the National Electrical Code.

Bend radius restrictions are dependent on the size of the cable and the type of sheath, i.e., smooth, interlocked armor, corrugated sheath or shielded conductors and varies from 7 times to 15 times cable external diameter.

NEC Article 334 requires that approved fittings be used for termination. Where single-conductor cables carrying alternating current enter a ferrous metal box
or enclosure, procedures described in NEC Section 300-20 must be followed to reduce effects of heating due to induced currents. These procedures include recommended arrangements of conductors, cutting of slots in metal between individual conductor holes, passing of conductors through insulating walls, or use of non-magnetic aluminum sheathed cable and aluminum terminating fittings.

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

1. NEC Article 334…Metal Clad Cable (Type MC)
2. UL 4, ANSI C33.9…Safety Standards for Type MC Metal Clad Cable
3. UL 514B, Safety Standards for Outlet Boxes & Fittings
4. A-A50552…Federal Specification. Fittings for Cable, Power Electrical & Conduit Metal, Flexible
5. NEMA FM-1…Standards Publication. Fittings and Supports for Conduit and Cable Assemblies

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Metal Clad Cable Teck Cable Aluminum Sheathed Cable Continued

Teck Cables

Teck cable derived its name from one of its first users, the Teck-Hughes Gold Mines in Kirkland Lake, Ontario. Teck 90 is CSA Type designation. Trade designation of this cable is Armored Cable.

Teck cables up to 5,000 volt working potential are manufactured in accordance with CSA Standard C22.2 No. 131 and are provided with a bare ground conductor and an optional outer jacket. Depending on phase conductor insulation the cables are designated as Teck 90 (X-LINK) when insulation is cross-linked polyethylene and Teck 90 (EP) when insulation is ethylene propylene. Both cables are rated for 90° C service (dry location) and 75° C (wet locations). When Teck cable is suitable for installation down to minus 40° F the cables are marked Teck 90 (X-LINK) minus 40 or Teck 90 (EP) minus 40.

Over 5,000 volts working potential Teck cables are manufactured in accordance with IPCEA standards and are certified by CSA. Cables are provided with or without ground wire as required.

Teck cables with outer jacket may be used for exposed or concealed wiring in wet or dry locations, indoors/outdoors and in corrosive environments. Teck cables are suitable for use in ventilated, non-ventilated and ladder-type cable troughs, in ventilated flexible cable ways in both dry and wet locations. Teck cable with outer jacket is suitable for direct earth burial and for Class II Division 2, Class III Division 1 & 2 hazardous locations per Canadian Electric Code.

Some of the features of Teck cable are its flexibility and ease of installation. Absence of dead air space within cable increases heat transfer and minimize condensation. Overall protective covering provides good environmental protection.

Bend radii for permanent training during installation usually varies between 7 times to 12 times the cable diameter depending on cable construction and manufacturer's recommendations. Larger radii bends are required for other conditions.

Section 12-3028 of the Canadian Electric Code requires that the terminating fittings used must provide adequate strain relief to terminal connections and ensure electrical continuity without injury to non-metallic sheath. Continuity is mandatory whether or not the armor is used as a grounding conductor. Except for dry locations free from corrosive atmosphere, the non-metallic jacket is not permitted to be stripped back to a point where armor is exposed after installation.

Where single conductor cables carrying 200 amps or more enter metal boxes through separate openings, certain precautions are required to prevent overheating of the metal by induction. Use of non-ferrous or non-metallic box connectors, locknuts and bushings and installation of non-magnetic panel inserts is suggested in the code.

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

1. CEC Section 12…Wiring Methods

   CEC Section 4…Conductors
2. CSA C22.2 No. 131 & 131S (Supplement #1)…Safety Standard for Type Teck Cable
3. CSA C22.2 No. 18…Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

Please Note

The materials herein, whether relating to the National Electrical Code, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation of our products. Refer to applicable codes, instructions and industry specifications prior to installation or use.

Metal Clad Cable Termination Fittings

STAR TECK EXTREME® —

STE/STEX Series Cable Fitting

The STAR TECK® STE cable fitting series is designed for optimum integrity in ordinary applications. The STEX series is specially designed for classified hazardous areas. Both are designed to stand up to the harshest and most corrosive environment.

Application

- Provides means for passing armored and metal clad jacketed cables through a bulkhead or enclosure in hazardous areas. (these fittings are suitable for hazardous areas when used with T&B sealing compound)
- Forms a mechanical grip and water and/or oil-resistant termination
- Provides grounding continuity of cable armor

Features

- Removable armor-stop for greater cable ranges
- Built-in sealing device
- Patented Elastomeric collar ring/bushing
- Built-in jacket stripping gauge
- Patented powergrip grounding ring

Range

- STAR TECK EXTREME® fittings are designed to accommodate a broad range of cables. Each hub range overlaps the adjacent hub range, thereby minimizing the possibility of mismatched cables and fittings in the field. They are available in hub sizes from ½" to 4" and will handle outer jacket diameters form 0.525" to 4.340".

Materials

- Aluminum is standard material
- Add suffix “S” for steel with zinc plating
- Add suffix “PVC” for corrosion resistant PVC coating
- Add suffix “SS” for stainless steel material

Cord & Cable Type

- JMC, MC-HL, Teck

Environment Classification

- STE* Series
  - –Ordinary Location
  - –Class I, Division 2†
- –NEMA 4, 4X, 6P
- –STE050 — STE200
  - NEMA 6P
- –STE250 — 400
  - NEMA 4
- –STE050 — 400
  - NEMA 4X
- STEX** Series
  - –Class I, Division 1, Groups A, B, C, D
  - –Class II, Division 1, Groups E, F, G
  - –NEMA 4, 4X, 6P
- UL Listed for Direct Burial when made from stainless steel material

** These fittings are suitable for Class I hazardous locations when used in combination with a certified Class I hazardous location sealing fitting.*

*** May be used in hazardous areas with approved MC type cable (or equal) when installed in accordance with NEC/CEC requirements.*

Not applicable to all STEX series.

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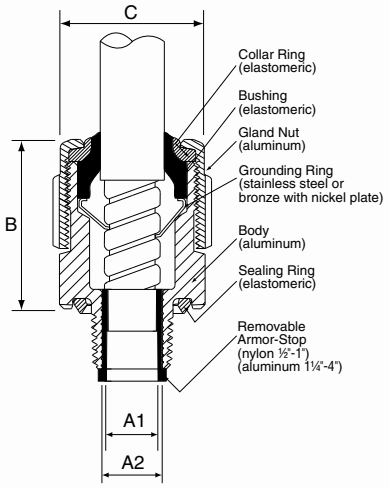
Metal Clad Cable Termination Fittings

STE Series
Ordinary

STEX Series
Hazardous Locations



STAR TECK EXTREME® Jacketed Metal-Clad Cable Fittings

CAT. NO.	HUB SIZE A.P.†	STRIP LENGTH	GLAND TORQUE (LB.-IN.)	CABLE RANGE OVER JACKET MIN.	CABLE RANGE OVER JACKET MAX.	CABLE RANGE OVER ARMOR MIN.	CABLE RANGE OVER ARMOR MAX.	A1: THROAT DIA. MIN. W/END STOP	A2: THROAT DIA. MIN. WO/END STOP	B* OVERALL	C MAX. ALUM.
Ordinary											
ST050-462*	½	1¼	300	.525	.650	.415	.570	N/A*	.395	2.020	1.224
STE050*	½	1¼	300	.600	.985	.520	.895	.505	.612	2.650	1.630
STE075*	¾	1¼	600	.860	1.205	.780	1.125	.655	.816	2.900	2.080
STE100*	1	1¼	700	.950	1.375	.870	1.295	.785	1.044	3.020	2.300
STE125*	1¼	1¼	1,000	1.150	1.625	.990	1.465	.970	1.250	4.010	2.820
STE150*	1½	1¾	1,200	1.440	1.965	1.280	1.805	1.260	1.562	4.290	3.250
STE200*	2	1¾	1,600	1.825	2.375	1.665	2.215	1.645	1.995	4.120	3.600
STE250	2½	2½	1,600	2.265	2.840	2.105	2.680	2.075	2.424	5.320	4.750
STE300	3	2½	1,600	2.670	3.270	2.545	3.145	2.531	2.890	5.400	5.400
STE350	3½	2½	1,600	3.220	3.870	3.090	3.640	3.065	3.460	5.360	5.900
STE400	4	2½	1,600	3.665	4.340	3.550	4.225	3.525	3.941	5.415	6.400
Hazardous Locations											
STX050-462*	½	1¼	300	.525	.650	.415	.570	N/A*	.395	2.500	1.630
STX050-464*	½	1¼	300	.600	.760	.490	.680	N/A*	.485	2.530	1.630
STEX075*	¾	1¼	600	.600	.985	.520	.895	.504	.678	3.400	1.820
STEX100*	1	1¼	700	.860	1.205	.780	1.125	.650	.833	3.580	2.300
STEX125*	1¼	1¼	1,000	.950	1.375	.870	1.295	.834	1.065	3.920	2.510
STEX150*	1½	1¾	1,200	1.150	1.625	.990	1.465	.958	1.273	5.020	3.260
STEX200*	2	1¾	1,600	1.440	1.965	1.280	1.805	1.250	1.560	5.120	3.620
STEX250†	2½	2½	1,600	1.825	2.375	1.665	2.215	1.640	1.995	5.170	4.580
STEX300†	3	2½	1,600	2.265	2.840	2.105	2.680	2.075	2.461	6.610	5.100
STEX350†	3½	2½	1,600	2.670	3.270	2.545	3.145	2.531	2.864	7.380	5.790
STEX400†	4	2½	1,600	3.220	3.870	3.090	3.640	3.055	3.461	7.650	6.190
STX400-484†	4	—	1,600	3.810	4.030	3.680	3.870	—	—	—	—
STX400-485†	4	—	1,600	3.965	4.185	3.835	4.025	—	—	—	—

To specify other material, add the appropriate suffix to the category number.

DESIRED MATERIAL	SUFFIX	EXAMPLE
Aluminum fitting with ground lock nut	GR	STE-050GR
Steel with zinc plate	S	STE-050S
Aluminum with pvc coating	PVC	STE-050PVC
Steel with pvc coating	S-PVC	STE-050S-PVC

UL Listed #84H3

** These products are UL Listed Watertight NEMA Type 6P*

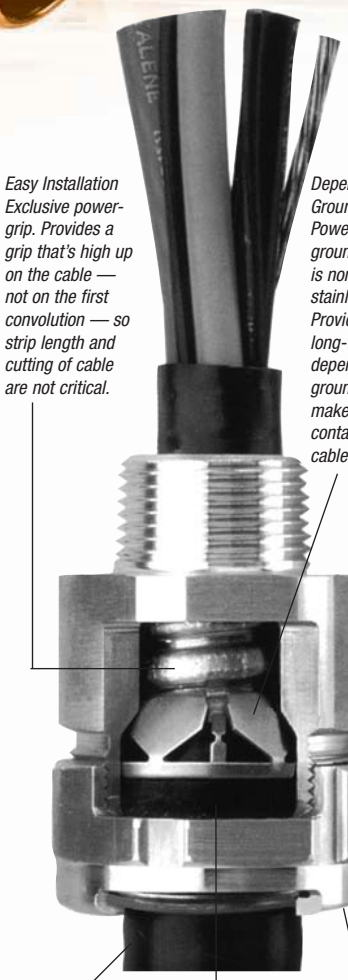
** The 1/2 fittings do not have a removable armor stop.*

† CSA approved for hazardous location.

Sealing Compounds — Used for Hazardous Locations

CAT. NO.	DESCRIPTION	VOLUME
SC4-KIT	Liquid Type Sealing Compound for use in high wire density applications	2.8 fl. oz.
SC65	Putty Type Sealing Compound	60 grams

Metal Clad Cable Termination Fittings



STAR TECK® Jacketed Metal-Clad Cable Fittings

Overlapping range of sizes. STAR TECK® jacketed metal-clad cable fittings are designed to accommodate a broad range of cables, thereby minimizing the possibility of mismatched cables and fittings in the field.

Application

- Provide means for passing armored, metal clad, jacketed cables through a bulkhead or enclosure in hazardous areas (these fittings are suitable for hazardous areas when used with T&B sealing compound)
- Form a mechanical grip and water and/or oil-resistant termination
- Provide grounding continuity of cable armor

Cord & Cable Type

- JMC, MC

Features

Easy Installation

- Exclusive power-grip. Provides a grip that's high up on the cable — not on the first convolution — so strip length and cutting of cable are not as critical

Dependable Service

- Stainless steel retaining ring. Withstands corrosive environments. Non-magnetic

Dependable Grounding

- Power-Grip grounding ring is non-magnetic stainless steel. Provides 360° long-term dependable grounding. It makes immediate contact with the cable

Watertight

- Tapered bushing. Cone shaped to provide a secure, tight fit while eliminating cupping or water in vertical installations

Easy to Install in Tight Spaces

- Low profile gland nut fits tight spaces. Has grooves for screwdriver installation, and flats for a wrench. Durable and reusable with funnel entry for easy cable insertion

Materials

- Aluminum is standard material
- Add suffix "S" for steel with zinc plating
- Add suffix "PVC" for corrosion resistant PVC coating
- Add suffix "SS" for stainless steel material

Environment Classification

- Suitable for hazardous locations. Class 1 Div. 2; Class II Div. 2; Class III. Where explosion proof or dust proof fittings are required by code use STAR TECK XP® fittings (STX Series)

Range

- They are available in hub sizes from ½ to 4 inches, and will handle outer jacket diameters from 0.525 to 4.340 inches

Installing the STAR TECK® Fitting

1. Prepare cable

2. Insert cable

3. Tighten gland nut

Thomas&Betts
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800.816.7809
Fax: 901.252.1354

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Tel: 450.347.5318
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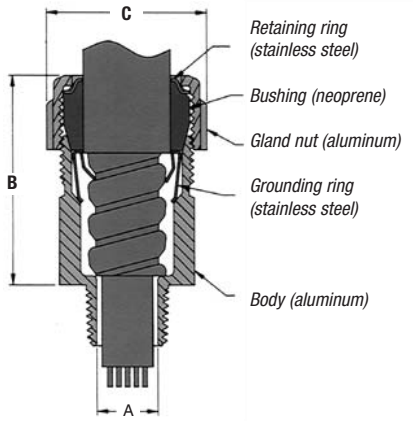
Technical Services
Tel: 888.862.3289

Metal Clad Cable Termination Fittings

Overlapping range of sizes accommodate a broad range of cables!

STAR TECK® Jacketed Metal-Clad Cable Fittings



- Overlapping sizes minimize possibility of mismatched cables and fittings in the field
- Available in hub sizes from ½" to 4", handling outer jacket diameters from 0.525" to 4.34"
- Suitable for hazardous locations (Class 1 Div. 2; Class II Div. 2; Class III)
- Where explosion-proof or dust-proof boxes are required by code, use STAR TECK XP® fittings (STX050-462 Series)

STAR TECK® JACKETED METAL-CLAD CABLE FITTINGS

CAT. NO.	HUB SIZE NPT	CABLE RANGE OVER JACKET (IN.) MIN.	CABLE RANGE OVER JACKET (IN.) MAX.	CABLE RANGE OVER ARMOR (IN.) MIN.	CABLE RANGE OVER ARMOR (IN.) MAX.	DIMENSIONS (IN.) A	DIMENSIONS (IN.) B*	DIMENSIONS (IN.) C
ST050-462	½	0.525	0.650	0.415	0.570	0.395	2.020	1.224
ST050-464	½	0.600	0.760	0.490	0.680	0.485	2.020	1.363
ST050-465	½	0.725	0.885	0.615	0.805	0.612	2.133	1.633
ST050-466	½	0.825	0.985	0.715	0.905	0.612	2.133	1.633
ST075-467	¾	0.880	1.065	0.770	0.985	0.819	2.450	2.080
ST075-468	¾	1.025	1.205	0.915	1.125	0.819	2.450	2.080
ST100-469	1	1.187	1.375	1.077	1.295	1.039	2.601	2.230
ST125-470	1¼	1.350	1.625	1.240	1.545	1.182	3.282	2.824
ST125-550	1¼	1.500	1.625	1.390	1.545	1.370	3.282	2.824
ST125-471	1¼	1.600	1.875	1.490	1.795	1.370	3.282	2.824
ST150-472	1½	1.700	1.965	1.590	1.885	1.557	3.620	3.260
ST150-473	1½	1.900	2.187	1.790	2.107	1.600	3.620	3.260
ST200-551	2	1.900	2.187	1.790	2.107	1.715	3.640	3.620
ST200-474	2	2.100	2.375	1.990	2.280	1.995	3.640	3.620
ST200-475	2	2.300	2.565	2.190	2.485	2.057	3.640	4.020
ST200-476	2	2.500	2.750	2.390	2.656	2.057	3.640	4.020
ST250-477	2½	2.380	2.640	2.240	2.560	2.230	4.700	4.750
ST250-478	2½	2.580	2.840	2.440	2.750	2.430	4.700	4.750
ST300-479	3	2.790	3.060	2.640	2.970	2.630	4.700	5.050
ST300-480	3	3.000	3.270	2.870	3.190	2.860	4.790	5.480
ST300-481	3	3.210	3.480	3.042	3.390	3.032	4.790	5.480
ST350-482	3½	3.420	3.690	3.270	3.590	3.260	4.790	5.980
ST350-483	3½	3.610	3.870	3.440	3.770	3.430	4.790	5.980
ST400-484	4	3.810	4.030	3.600	3.930	3.590	4.840	6.435
ST400-485	4	3.965	4.185	3.755	4.065	3.745	4.840	6.435
ST400-486	4	4.120	4.340	3.910	4.220	3.900	4.840	6.435

** Approximate dimension before installation.*

UL File No. E 38947

CSA File No. LR 23086

Suggested specifications for metal-clad cable fitting.

1. All metal-clad cable fittings for jacketed interlocked armor cable or continuous corrugated cable shall be approved by a nationally recognized testing laboratory, inspection agency or product evaluation organization.

2. Where corrugated-jacketed metal-clad cable exposed to intermittent or continuous moisture is terminated into a threaded opening, the fitting shall be watertight type furnished with:

a. An elastomeric beveled bushing.

b. A funnel entry, splined gland nut.

c. A non-magnetic stainless steel grounding device with dual grounding action.

d. A taper threaded hub.

e. A hexagonal body and gland nut as manufactured by Thomas & Betts (aluminum series ST050-464).

3. Where cable is terminated into a threadless opening, a suitable moisture-resistant elastomeric gasket as manufactured by Thomas & Betts, series 5262, shall be provided between the outside of enclosure and fitting shoulder.

4. With single conductor cable and/or in corrosive environments, aluminum fittings such as Thomas & Betts series ST050-464 shall be installed.

Class I Div 2; Class II Div. 2; Class III. Where explosion-proof or dust-ignition-proof boxes are required by Teck, fitting must be used in conjunction with an approved sealing fitting.

Metal Clad Cable Termination Fittings

Easy installation saves time, money!

STAR TECK XP® Jacketed Metal-Clad Cable Fittings

Application

- Provide means for passing armored, metal clad, jacketed cables through a bulkhead or enclosure in hazardous areas (these fittings are suitable for hazardous areas when used with T&B sealing compound)
- Form a mechanical grip and water and/or oil-resistant termination
- Provide grounding continuity of cable armor

Cord & Cable Type

- JMC, MC-HL, Teck

Features

- Sealing chamber is easier to fill, requires less sealing compound — saves time, material. Flame path is optimally designed to enable easy insertion into hub. Quick-turn lock
- Internal splines
- Union features twist-on action; red color for high visibility
- Exclusive Power Grip. Provides grip that's high up on cable armor Non-magnetic stainless steel Power Grip grounding ring
- Low profile gland nut

Materials

- Aluminum is standard material
- Add suffix "S" for steel with zinc plating
- Add suffix "PVC" for corrosion resistant PVC coating
- Add suffix "SS" for stainless steel material

Environment Classification

- Suitable for hazardous locations. Class 1 Div. 2; Class II Div. 2; Class III. Where explosion proof or dust proof fittings are required by code use STAR TECK XP® fittings (STX Series)

Range

- They are available in hub sizes from ½ to 4 inches, and will handle outer jacket diameters from 0.525 to 4.185 inches

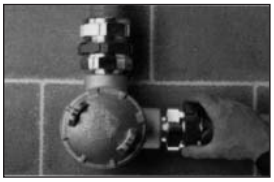
1. Prepare cable

2. Install STAR TECK XP® on cable

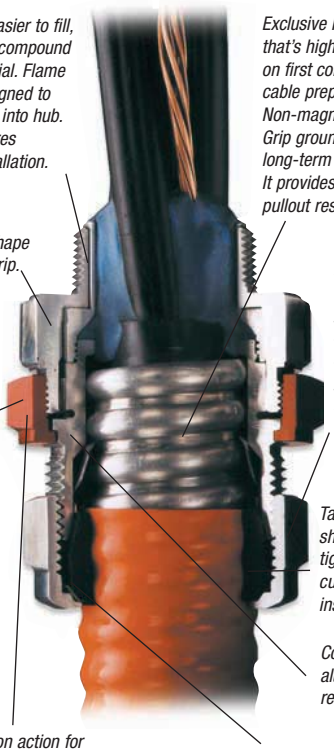
3. Tighten gland nut

4. Pot cable (using liquid or putty)

5. Install hub on enclosure



6. Insert cable and tighten red union



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Metal Clad Cable Termination Fittings

STAR TECK XP® Jacketed Metal Clad Cable Fittings

CAT. NO.	HUB SIZE N.P.T.	CABLE RANGE OVER JACKET (IN.) MIN.	CABLE RANGE OVER JACKET (IN.) MAX.	CABLE RANGE OVER ARMOR (IN.) MIN.	CABLE RANGE OVER ARMOR (IN.) MAX.	DIMENSIONS (IN.) A MIN.	B	C	SEALING COMPOUND REQUIRED SC65** PUTTY (GRAMS)	SCA-KIT** LIQUID (CC)
STX050-462	½"	0.525	0.650	0.415	0.570	0.395	2.50	1.63	7	4
STX050-464	½"	0.600	0.760	0.490	0.680	0.485	2.50	1.63	7	4
STX075-465	¾"	0.725	0.885	0.615	0.805	0.612	2.62	1.82	14	7
STX075-466	¾"	0.825	0.985	0.715	0.905	0.720	2.62	1.82	14	7
STX100-467	1"	0.880	1.065	0.770	0.985	0.755	2.83	2.30	30	16
STX100-468	1"	1.025	1.205	0.915	1.125	0.900	2.83	2.30	30	16
STX125-469	1¼"	1.187	1.375	1.077	1.295	1.062	3.05	2.51	45	22
STX150-470	1½"	1.357	1.625	1.240	1.545	1.182	3.76	3.26	80	43
STX150-550	1½"	1.500	1.625	1.390	1.545	1.370	3.76	3.26	80	43
STX150-471	1½"	1.600	1.875	1.490	1.795	1.470	3.76	3.26	80	43
STX200-472	2"	1.700	1.965	1.590	1.885	1.557	4.05	3.62	125	66
STX200-473	2"	1.900	2.187	1.790	2.107	1.757	4.05	3.62	125	66
STX200-474	2"	2.100	2.375	1.990	2.280	1.995	4.15	4.02	150	80
STX250-475	2½"	2.300	2.565	2.200	2.485	2.185	4.31	4.58	341	164
STX250-476	2½"	2.500	2.750	2.380	2.656	2.365	4.31	4.58	341	164
STX300-478	3"	2.580	2.840	2.477	2.750	2.460	5.64	5.10	497	239
STX300-479	3"	2.790	3.060	2.677	2.970	2.660	5.80	5.33	609	293
STX350-480	3½"	3.000	3.270	2.880	3.190	2.864	6.32	5.79	965	464
STX350-481	3½"	3.210	3.480	3.080	3.390	3.062	6.32	5.79	965	464
STX400-482	4"	3.420	3.690	3.307	3.590	3.290	6.63	6.19	1323	636
STX400-483	4"	3.610	3.870	3.477	3.770	3.460	6.63	6.19	1323	636
STX400-484	4"	3.810	4.030	3.650	3.930	3.630	7.09	6.90	1645	791
STX400-485	4"	3.965	4.185	3.794	4.065	3.775	7.09	6.90	1645	791

** Approximate dimension before installation.*

*** 1 unit of SC65 putty type sealing compound contains 50 g. 1 unit of SC4-Kit liquid type sealing compound contains 66 cc. and includes a dispensing syringe and fibre damming material.*

UL File No. E-38947

CSA File No. LR 23086

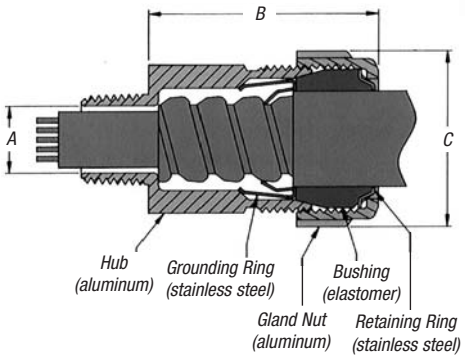
***CAUTION:** STAR TECK XP® fittings must be installed with Thomas & Betts catalog numbers SC4-Kit or SC65 sealing compound (purchase separately). See installing instructions.*

Sealing Compounds

CAT. NO.	DESCRIPTION	VOLUME
SC4-KIT	Liquid Type Sealing Compound for use in high wire density applications	2.8 fl. oz.
SC65	Putty Type Sealing Compound	60 grams

UL File No. E-82038

CSA File No. LR 638



UL Connectors when Used with Putty Type Listed or Liquid Type Compound For:

½ thru 3"	Class I	Div. 2	Groups A, B, C, D
	Class II	Div. 2	Groups F, G
	Class III		
	Enclosure Type 4		

Connectors when Used with Putty Type or Liquid Type Compound

3½" & 4"	Class I	Div. 2	Groups B, C, D
	Class II	Div. 2	Groups F, G
	Class III	Enclosure Type 4	

CSA Certified For:

	Class I	Division 1 and 2	Groups A, B, C, D
	Class II	Division 1 and 2	Groups E, F, G
	Class III, SL (Integral Seal) Enclosure Type 4		

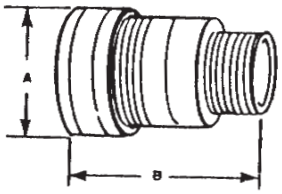
Metal Clad Cable Termination Fittings

Spin-On® Series II Connectors and Accessories

CAT. NO.	HUB SIZE (IN.)	CABLE RANGE OVER ARMOR (IN.)	A DIA. (IN.)	B (IN.)	OPTIONAL CORROSION RESISTANT BOOT CAT. NO.
2-050-008	½	.380-.435	1¼	1⅞	NB050
2-050-010	½	.436-.500	1¼	1⅞	NB050
2-050-020	½	.501-.580	1¼	1⅞	NB050
2-050-030	½	.581-.650	1¼	1⅞	NB050
2-075-040	¾	.651-.730	1⅝	2⅛	NB075
2-075-050	¾	.731-.820	1⅝	2⅛	NB075
2-075-060	¾	.821-.880	1⅝	2⅛	NB075
2-100-070	1	.881-0.960	2	2⅛	NB100
2-100-080	1	.961-1.030	2	2⅛	NB100
2-100-090	1	1.031-1.100	2	2⅛	NB100
2-100-100	1	1.101-1.180	2	2⅛	NB100
2-125-110	1¼	1.181-1.240	2¼	2½	NB125
2-125-120	1¼	1.241-1.310	2¼	2½	NB125
2-125-130	1¼	1.311-1.390	2¼	2½	NB125
2-150-140	1½	1.391-1.480	2⅝	2⅝	NB150
2-150-150	1½	1.481-1.570	2⅝	2⅝	NB150
2-150-160	1½	1.571-1.660	2⅝	2⅝	NB150
2-200-170	2	1.661-1.750	3	2⅞	NB200
2-200-180	2	1.751-1.840	3	2⅞	NB200
2-200-190	2	1.841-1.930	3	2⅞	NB200
2-200-200	2	1.931-2.030	3	2⅞	NB200
2-250-210	2½	2.031-2.150	3⅜	3⅜	NB250
2-250-220	2½	2.151-2.270	3⅜	3⅜	NB250
2-250-230	2½	2.271-2.390	3⅜	3⅜	NB250
2-250-240	2½	2.391-2.510	3⅜	3⅜	NB250
2-300-250	3	2.511-2.640	4½	3⅜	NB300
2-300-260	3	2.641-2.770	4½	3⅜	NB300
2-300-270	3	2.771-2.900	4½	3⅜	NB300
2-300-280	3	2.901-3.040	4½	3⅜	NB300
2-350-290	3½	3.041-3.170	5	3⅜	NB350
2-350-300	3½	3.171-3.310	5	3⅜	NB350
2-350-310	3½	3.311-3.450	5	3⅜	NB350
2-350-320	3½	3.451-3.590	5	3⅜	NB350
2-400-330	4	3.591-3.730	5⅜	3⅜	NB400
2-400-340	4	3.731-3.870	5⅜	3⅜	NB400
2-400-350	4	3.871-4.010	5⅜	3⅜	NB400

UL File No. E38947

CSA File No. LR 2884



Connector Aluminum

In corrosive environments, the T&B neoprene boot provides maximum corrosion protection to the connector. Simply match the connector hub size to the boot hub size to select the proper boot.

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800.816.7809
Fax: 901.252.1354

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Fax: 450.347.1976

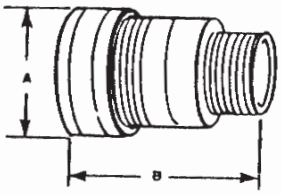
Technical Services
Tel: 888.862.3289

Metal Clad Cable Termination Fittings

Install a complete gas-blocked connector in a hazardous location!

Spin-On® X Connectors for Hazardous Locations

CAT. NO.	HUB SIZE (IN.)	CABLE RANGE OVER ARMOR (IN.)	A DIA. (IN.)	B (IN.)
4-075-008	¾"	.380-.435	1⅝	2⅛
4-075-010	¾"	.436-.500	1⅝	2⅛
4-075-020	¾"	.501-.580	1⅝	2⅛
4-075-030	¾"	.581-.650	1⅝	2⅛
4-075-040	¾"	.651-.730	1⅝	2⅛
4-100-050	1"	.731-820	2	2⅛
4-100-060	1"	.821-880	2	2⅛
4-100-070	1"	.881-960	2	2⅛
4-100-080	1"	.916-1.030	2	2⅛
4-125-090	1¼"	1.031-1.100	2¼	2½
4-125-100	1¼"	1.101-1.880	2¼	2½
4-125-110	1¼"	1.181-1.240	2¼	2½
4-125-120	1¼"	1.241-1.310	2¼	2½
4-150-130	1½"	1.311-1.390	2⅝	2⅝
4-150-140	1½"	1.181-1.240	2⅝	2⅝
4-150-150	1¼"	1.241-1.310	2⅝	2⅝
4-200-160	2"	1.571-1.660	3	2⅞
4-200-170	2"	1.661-1.750	3	2⅞
4-200-180	2"	1.751-1.840	3	2⅞
4-200-190	2"	1.841-1.930	3	2⅞
4-250-200	2½"	1.931-2.030	3⅜	3⅜
4-250-210	2½"	2.031-2.150	3⅜	3⅜
4-250-220	2½"	2.151-2.270	3⅜	3⅜
4-250-230	2½"	2.271-2.390	3⅜	3⅜
4-300-240	3"	2.391-2.510	4½	3⅜
4-300-250	3"	2.511-2.640	4½	3⅜
4-300-260	3"	2.641-2.770	4½	3⅜
4-300-270	3"	2.771-2.900	4½	3⅜
4-350-280	3½"	2.901-3.040	5	3⅞
4-350-290	3½"	3.041-3.170	5	3⅞
4-350-300	3½"	3.171-3.310	5	3⅞
4-350-310	3½"	3.311-3.450	5	3⅞
4-400-320	4"	3.451-3.590	5⅜	3⅞
4-400-330	4"	3.591-3.730	5⅜	3⅞
4-400-340	4"	3.731-3.870	5⅜	3⅞
4-400-350	4"	3.871-4.010	5⅜	3⅞



Spin-On® X Connectors for Hazardous Locations

- Each SPIN-ON® X catalog number is a complete compound-filled connector kit
- 3-piece construction — gland/body/insert with O-ring
- Red anodized gland identifies hazardous location fitting
- Compact size — overall length is ⅔ less than conventional fitting
- Installation time is 50% less than conventional
- Full tapered hub threads for gas-tight thread engagement
- Machined aluminum construction for corrosion resistance
- Factory-packaged compound — no other on-site materials required
- Sealing compound consistency premixed — no job-site variations
- Neoprene boots available for additional corrosion protection
- For control cable applications, order liquid compound separately

Kit contains: The SPIN-ON® X connector, and new Putty Type Compound.

Suffix Cat. No. with S for steel, B for brass.

SPIN-ON® X is UL Listed for: Class I, Div. 2, Groups A, B, C, & D in ¾", 1", 1¼", 1½", 2", 2½" Hub sizes. Class I, Div. 2, Groups C & D in 3", 3½", and 4" Hub sizes. The entire line is UL listed for Class II, Div. 2, Groups F & G and Class III. CSA certified through 4" Hub size for Class I, Groups A, B, C, D; Class II, Groups E, F, G; and Class III.

UL File No. E 82038

CSA File No. LR 638

Liquid Type Sealing Compounds

CAT. NO.	DESCRIPTION	VOLUME
SC4-KIT	Liquid Type Sealing Compound for use in high wire density applications	2.8 fl. oz.
SC65	Putty Type Sealing Compound Same as Spin-On® X Blue Compound	60 grams

Tray Cable Fittings

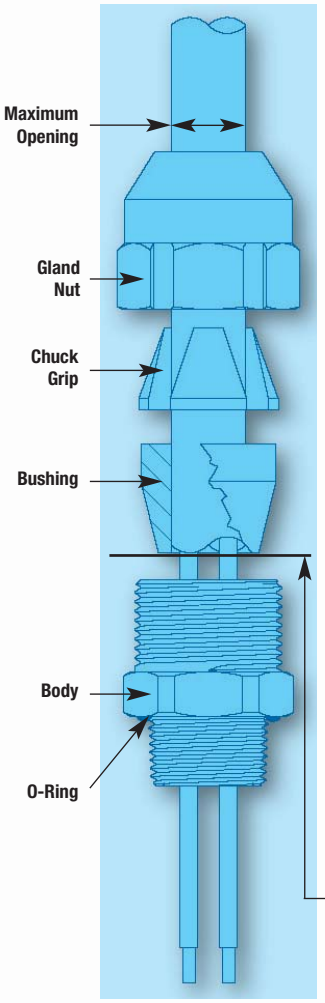
Now Available in Stainless

Increase safety for hazardous locations.

Silver Grip® TCF® Series — Tray/Cord Fitting

Introducing the Silver Grip® Tray/Cord Fitting — the safe, yet cost-efficient choice for increased safety when terminating portable cord and tray cable in hazardous locations. Designed for use in Class I, Gas and Vapor environments, the Silver Grip® Tray/Cord Fitting provides efficient strain relief for cables entering enclosures and raceways, and for cords used on portable equipment.

- Now available in stainless steel in hub sizes from ½" to 1"
- Corrosion-resistant, non-magnetic aluminum construction
- Tapered neoprene bushing and O-ring seal out moisture and dirt ingress
- Chuck grip provides high mechanical pull-out performance. Exceeds applicable requirements
- Hand-tightens — no tools required



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

Applications

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

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

NOTE: Tray cable is not suitable for use in Zone 1 locations. Portable cord can be used in Zone 1 applications only when installed on portable equipment.

- CSA File Number LR4484
- Class 4418-03 Fittings for Hazardous Locations
- Class 4418-03 Fittings for Hazardous Locations — Certified to U.S. Standards
- Class I, Zone 1, AEx e II

Silver Grip® TCF® Series — Tray/Cord Fitting

CAT. NO.	HUB SIZE NPT (IN.)	THROAT DIA. (IN.)	MIN. CABLE DIA. (IN.)	MAX. OPENING (IN.)	STD. PKG. QTY.
TCF050-27AL	½	.330	.150	.270	25
TCF050-40AL	½	.540	.250	.400	25
TCF050-54AL	½	.540	.400	.540	25
TCF050-67AL	½	.540*	.540	.670	10
TCF050-78AL	½	.540*	.660	.780	10
TCF075-40AL	¾	.540	.250	.400	15
TCF075-54AL	¾	.540	.400	.540	15
TCF075-67AL	¾	.780	.540	.670	10
TCF075-78AL	¾	.780	.660	.780	10
TCF075-88AL	¾	.765*	.770	.880	10
TCF100-78AL	1	.980	.660	.780	10
TCF100-88AL	1	.980	.770	.880	10
TCF100-100AL	1	.980*	.870	1.000	10
TCF125-109AL	1¼	1.255	.800	1.090	4
TCF125-128AL	1¼	1.255*	1.080	1.280	4
TCF125-147AL	1¼	1.255*	1.270	1.470	4
TCF150-115AL	1½	1.470	.890	1.150	2
TCF150-140AL	1½	1.470	1.140	1.400	2
TCF150-165AL	1½	1.470*	1.390	1.650	2
TCF200-153AL	2	1.896	1.190	1.530	2
TCF200-186AL	2	1.896	1.520	1.860	2
TCF200-219AL	2	1.896*	1.850	2.190	2

**For stainless steel (316), replace AL for SS6 (up to 1" only)*

Thomas&Betts
www.tnb.com

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800.816.7809
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Fax: 450.347.1976

Technical Services
Tel: 888.862.3289

Tray Cable Fittings

The T&B TC Series Tray Cable Connector

The Thomas & Betts TC Series of connectors are designed specifically for transitioning tray cable from horizontal cable tray to terminations in enclosures. The precision machined aluminum interiors are ideally suited for use with sunlight-oil resistant cable.

Application

- Provides means for passing TC type cable from cable tray installations into an enclosure or threaded bulkhead

Cord & Cable Type

- TC (rated for 90° C cable)

Features

- Precision machined parts
- Full tapered hub threads
- Gas tight thread engagement

Materials

- Body, gland nut and insert copper-free aluminum

Environment Classification

- Ordinary locations
- Class I, Division 2†, Groups A, B, C, D (¾"–2½")
- Class I, Division 2, Groups C, D (3"–4")
- Class II, Division 2, Groups F, G

Range

0.225"–3.790"

- Suitable for use with sunlight-oil resistant tray cable
- Suitable for 90° Cable
- CSA Certified — Class I Div. 2, Groups A, B, C, D Class II Div. 2, Groups E, F, G Class III
- "SL" Integral Seal

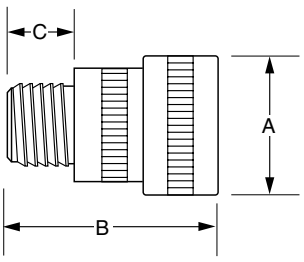
Tray Cable Connectors

CAT. NO.	HUB SIZE (IN.)	A ±.062	B ±.062	CABLE RANGE DIA. (IN.)
4-075TC	¾	1.72	2.10	.275–.600
4-100TC	1	2.10	2.33	.575–.900
4-150TC	1½	2.78	2.87	1.095–1.420
4-200TC	2	3.16	3.17	1.280–1.780
4-250TC	2½	4.00	3.80	1.700–2.200
4-300TC	3	4.69	3.86	2.150–2.700
4-350TC	3½	5.22	4.10	2.650-3.230
4-400TC	4	5.63	4.00	3.180–3.790

NOTE: When installed with the two-part epoxy in the intended manner, the fittings are suitable for the following hazardous locations:

¾" thru 2½" — Class I Div. 2, Groups A, B, C, D
Class II Div. 2, Groups F, G

3" thru 4" — Class I Div. 2, Groups C, D
Class II Div. 2, Groups F, G



Electrical Metallic Tubing (EMT) Fittings

Suggested Specifications for Electrical Metallic Tubing (EMT) Fittings

Series 5123 Insulated
EMT Connector (Raintight)
(Compression Type)

Series 5120
EMT Coupling (Raintight)
(Compression Type)

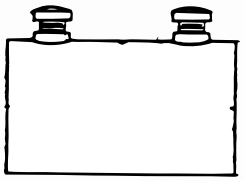
Series 1350
Pipe Spacers

- Ferrous Electrical Metallic Tubing (E.M.T.) shall be of the hot dipped galvanized type conforming to applicable specifications WW-563/ANSI C33.98/ANSI C80.3/UL 797/ CSA C22.2 No. 83. E.M.T. protected solely by enamel shall not be used
- Where lengths of EMT are coupled together or connected to boxes or enclosures or where EMT is coupled to threaded rigid metal conduit or IMC, fittings approved for intended applications shall be used, and:
  - (1) Shall be of rugged steel/malleable iron construction electro zinc plated inside/outside including threads. Connector throat shall be bushed with a nylon insulator
  - (2) Shall be of raintight type for installations exposed to weather or wet locations such as Thomas & Betts series TC112A-RT and TK112A-RT
  - (3) Shall be of concrete tight type for installations in poured concrete such as Thomas & Betts series TC121, TC721, or TK121, 5123, 5120, and 530
- Raintight type fittings may be substituted for concrete tight application.
- Where electrical metallic tubing and associated fittings are used as part of equipment grounding system:
  - (1) A bonding type locknut such as Thomas & Betts series 106 shall be installed where hub type fitting terminates into a threadless opening
  - (2) Compression ring type fittings such as Thomas & Betts series 5123 and 5120 shall be used for terminating and coupling
- EMT shall be securely fastened in place at intervals as specified by the code using straps, hangers and other supporting assemblies as indicated on plans, and as manufactured by Thomas & Betts, series 4176 straps. In wet locations or where supporting surfaces are of absorbent materials vertical and horizontal runs of conduit shall be firmly supported such that there is at least ¼" air space between conduit and supporting surface
- Spacers and supporting straps shall be of rugged malleable iron or steel construction hot dipped galvanized and conforming to requirements of Canadian Standards Association Standard C22.2 No. 18 as manufactured by Thomas & Betts, series 4176 straps and series 1350 spacers

Series 4176
Pipe Straps

Series 106
Bonding Locknut

Series HT-221
Combination Coupling
(Concrete tight) Rigid/IMC to EMT
(Set Screw Type) Zinc Die Cast



Series TK121-E
EMT Coupling (Concrete tight)
(Set Screw Type)

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Electrical Metallic Tubing (EMT) Fittings

Fittings for Electrical Metallic Tubing (EMT)
Compression Type, Raintight

5123 Series

5120 Series

Application

- To connect and effectively bond electrical metallic tubing to a box or an enclosure
- To provide a rain tight connection between tubing and the connector
- To couple ends of tubing

Features

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

Standard Material

All Steel except Insulator.

Insulator . . . . . .Thermoplastic, UL Rated 105° C

Standard Finish

All Steel Parts . . . . . .Electro Zinc Plated & Chromate Coated

Insulator . . . . . .As Molded

Range

Conduit Size… ½" thru 2"

Hub Size… ½" thru 2" NPS

Hubs provided with straight pipe threads NPS.

Listed/Certified by

UL (UL File No. E-16592)

CSA (LR-4484, LR-8994)

Conforms to:

UL 514B

CSA C22.2 No. 18

NFPA 70

NEMA FB1

Federal Specification A-A-50553

Federal Standard H-28 (Threads)

Electrical Metallic Tubing (EMT) Fittings

EMT Raintight Fittings

- Patented design includes a sealing ring ensuring a 360° raintight seal
- Distinctive fitting design and gland nut color enables inspectors to visually inspect conformance from a distance — no close-up inspection required
- All-steel construction for rugged, durable installations
- Sharp teeth on locknuts ensure a solid bond and tight grip on surface of enclosure
- Does not require disassembly to install

Steel City® Raintight EMT Compression Fittings feature a distinctive design and vibrant gland nut color, enabling inspectors to visually inspect conformance from a distance. There's no close-up inspection required!

Materials, Specifications

Material: Steel Body, Steel Locknut

Plating: Zinc Plated, Clear Chromate coating

Liner: Nylon (for insulated fittings)

Threads: Male hub threads NPS

Gaskets: Neoprene® (black) sold separately

Use: Raintight, wet locations, concrete-tight

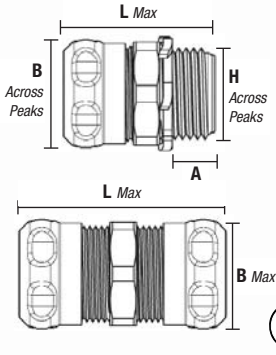
Third Party Certification

UL Listed: E-16592 Listed Raintight

Third Party Standards

UL Standard: 514B

NEMA: FB-1



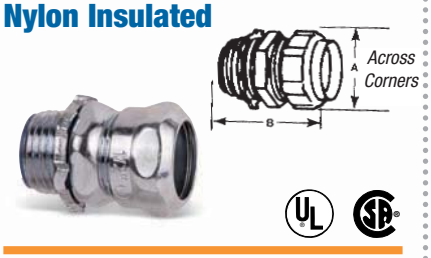
CAT. NO.	SIZE	A	B	H	L	PKG. QTY.
Non-Insulated Compression Connectors						
TC111A-RT	½"	.510	1.097	1.052	1.425	50
TC112A-RT	¾"	.510	1.305	1.295	1.425	50
TC113A-RT	1"	.675	1.645	1.580	1.652	25
Insulated Compression Connectors						
TC711A-RT	½"	.510	1.097	1.052	1.425	50
TC712A-RT	¾"	.510	1.305	1.295	1.425	50
TC713A-RT	1"	.675	1.645	1.580	1.652	25

CAT. NO.	SIZE	A	L	PKG. QTY.
Compression Couplings				
TK111A-RT	½"	1.660	1.097	50
TK112A-RT	¾"	1.660	1.305	50
TK113A-RT	1"	1.934	1.645	25
Sealing Gaskets* (sold separately)				
SR-101	½"	—	—	50
SR-102	¾"	—	—	50
SR-103	1"	—	—	50

** Gaskets sold separately. In some jurisdictions, sealing gaskets are not required when installed in a threaded opening. Also, a connector assembled in the bottom of a box or enclosure may be considered by code "to be located (placed) so that water will not enter the enclosure at the knockout interface" (NEC 314.15 (A)). In this instance, the sealing O-ring may not be required. Consult with the local authority having jurisdiction.*

Neoprene is a trademark of DuPont Dow Elastomers L.L.C.

EMT Connectors — Nylon Insulated



CAT. NO.	SIZE	DIMENSION (IN.) A	B
5123	½"	1 3/64	1 21/32
5223	¾"	1 21/64	1 27/32
5323	1"	1 11/16	1 7/8
5423	1¼"	2 1/16	2 11/32
5523	1½"	2 5/16	2 23/32
5623	2"	2 25/32	2 13/16

U.L. Listed and CSA Certified raintight.

U.L. File No. E 9043 *CSA File No. 8994*

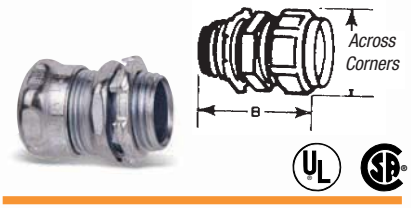
EMT Couplings

CAT. NO.	SIZE	DIMENSION (IN.) A	B
5120	½"	1 1/16	1 27/32
5220	¾"	1 5/16	2 1/8
5320	1"	1 11/16	2 1/8
5420	1¼"	2 1/16	2 29/32
5520	1½"	2 5/16	3 1/16
5620	2"	2 3/4	3 3/32

U.L. Listed and CSA Certified raintight.

U.L. File No. E 9043 *CSA File No. 8994*

EMT Connectors



CAT. NO.	SIZE	DIMENSION (IN.) A	B
5121	½"	1 1/16	1 9/16
5221	¾"	1 5/16	1 21/32
5321	1"	1 11/16	1 3/4
5421	1¼"	2 1/16	1 11/32
5521	1½"	2 5/16	2 3/16
5621	2"	2 3/4	2 3/4

U.L. Listed and CSA Certified raintight.

T&B E.M.T. (thinwall) fittings comply with Federal Spec. WF408B.

U.L. File No. E 9043 *CSA File No. 8994*

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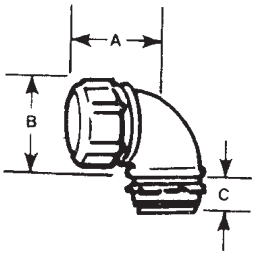
Electrical Metallic Tubing (EMT) Fittings

Insulated for safe, simple installation in cramped locations or tight corners!

Short Elbows — Insulated*

- Ideal for applications where large radius conduit elbows won't fit or would appear unworkmanlike
- Shoulders on body of ½" size are hex-shaped to provide positive holding for standard installation tools
- Malleable iron construction
- UL rated 105°C



CAT. NO.	SIZE	DIMENSION (IN.) A	B	C
4240	½"	1 7/16	1s	7/16
4241-TB	¾"	1 11/16	1 19/32	½
4242	1"	1⅞	1 27/32	⅝
4243	1¼"	2¾	2 15/32	1 1/16
4244	1½"	3 1/16	2¾	1 1/16
4245	2"	3⅜	3 5/16	1 1/16

UL Listed and CSA Certified raintight.

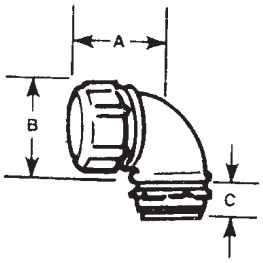
UL File No. E 09043

CSA File No. 2884

Ideal for cramped locations or tight corners!

Short Elbows — Malleable Iron*

- Shoulders on body of ½" size are hex-shaped to provide positive holding for standard installation tools
- Malleable iron construction



CAT. NO.	SIZE	DIMENSION (IN.) A	B	C
4230	½"	1 7/16	1s	7/16
4231	¾"	1 11/16	1 19/32	½
4232	1"	1⅞	1 27/32	⅝
4233	1¼"	2¾	2 15/32	1 1/16
4234	1½"	3 1/16	2¾	1 1/16
4235	2"	3⅜	3 5/16	1 1/16

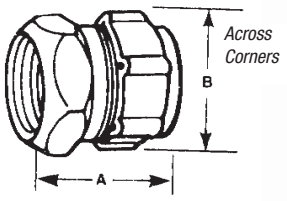
UL Listed and CSA Certified raintight.

UL File No. E 09043

CSA File No. 2884

For connecting EMT to threaded rigid and intermediate metal conduit.

Combination Coupling — Steel*



For XJG Conduit Expansion Couplings for EMT see page A-25

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B
530-TB	½"	1⅜	1 1/16
531	¾"	1½	1 11/32
532	1"	1 19/32	1 21/32

UL Listed and CSA Certified rain tight.

UL File No. E 09043

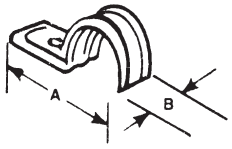
CSA File No. 2884

** All items shown on this page are suitable for use in hazardous locations where general purpose equipment is specifically permitted by the NEC; Class I, Div. 2; Class II, Div. 1 & 2; Class III, Div. 1 & 2, 502-4(a)(b); 503-3(a)(b).*

Electrical Metallic Tubing (EMT) Fittings

Snap-on design holds strap in place!

Pipe Straps — Steel



- Elongated bolt hole makes alignment easy, even when holes in mounting surface are out of alignment
- Available in ½" to 2" sizes

Oval Hole for Screw Size (C)

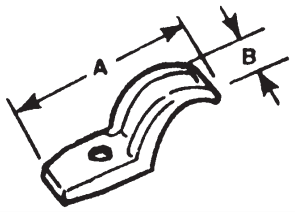
CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C (BOLT HOLE)
4159	½"	1 27/32	¾	¼
4160	¾"	2 1/32	¾	¼
4161	1"	2 11/32	¾	¼
4162	1¼"	2⅞	¾	¼
4163	1½"	3 11/16	1¼	11/32
4164	2"	4 1/16	1⅛	13/32

Not UL Listed.

CSA File No. 2884 and 4484

Designed to fit each size of conduit snugly!

Pipe Straps — Malleable Iron



- High reinforcing ribs on each side increase strength and reduce weight
- Hot-dipped galvanized finish

Oval Hole for Screw Size (C)

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B	C (BOLT HOLE)
4176	½"	2 5/32	2 1/32	¼
4177	¾"	2 3/16	1 1/16	¼
4178	1"	3	¾	¼
4179	1¼"	3¾	1 3/16	5/16
4180	1½"	4 3/16	1 5/16	⅜
4181	2"	5 3/16	1½	7/16
1282	2½"	5 15/16	1½	½
1283	3"	6 1/16	1⅝	½
1284	3½"	7 19/32	1¾	⅝
1285	4"	8 5/16	1⅞	⅝

Not UL Listed.

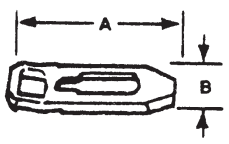
CSA File No. 2884 and 4484

Eliminates the need for costly offset-bending of conduit to prevent corrosive moisture traps when conduit is mounted directly to a surface!

Pipe Spacers

1350

1351



- Used with T&B conduit straps to permit space between conduit and mounting surface
- Pre-mountable and stackable to eliminate offsetting
- Malleable iron construction with hot-dipped galvanized finish

CAT. NO.	SIZE	DIMENSIONS (IN.) A	B
1350	½", ¾", 1"	3"	⅞
1351	1¼"-1½"-2"	5"	1 3/16"
1352	2½"-3"	9 5/16"	1¾"
1353	3½"-4"	7 5/16"	2"
1354	4½"-5"-6"	10 9/16"	2 3/16"

Conforms to NEC 300-5-C. *CSA File No. 2884*

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Liquidtight Flexible Metal Conduit Fittings

Our Liquidtight Line Is the End-All for Liquidtight Dust-Tight Connections.

All our high-performance products are designed to deliver excellent reliability as well as ease of installation in virtually any application. And you benefit from our expertise through our liquidtight and dust-tight connections available for a variety of conduits as well as portable cord.

Thomas & Betts offers the largest and most technologically advanced line of liquidtight fittings in the industry, including connectors for highly specialized applications such as power and petrochemical plants, paper mills, robot manufacturers, packaging equipment, machine tool building, and other OEM and MRO applications. At Thomas & Betts, we integrate the latest manufacturing technologies with the highest quality materials available. So you can be assured of reliable, liquidtight products that offer improved on-the-job performance and reduced installation time and costs.

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Liquidtight Flexible Metal Conduit Fittings

T&B makes liquidtight fittings for demanding situations.

Liquidtight Flexible Metal Conduit Fittings

Gland deflects water away from connector and prevents "pooling" of moisture. Look for the distinctive "Pumpkin" appearance of the gland nut.

Self-Cleaning Threads inside aluminum gland nut keep dirt and grime out of the threads as you tighten.

Double Beveled Sealing Ring is designed with five unique sealing mechanisms and cannot be installed backwards. Manufactured of high-temperature rated thermoplastic to demanding specifications. Look for the unique T&B blue color ensuring the highest quality fitting.

Safe Edge® Ground Cone provides superior bonding, stronger pullout, easy threading and conductor protection. Look for the distinctive "ski slope" appearance within the "pumpkin" gland nut.

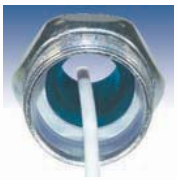
Heat-Curled Insulator provides excellent wire protection and easier glide of conductors through and into the fitting. In addition, the heat-curled finish gives the insulator more strength than glue-in insulators. Look for the unique T&B blue color ensuring the highest quality fitting.

Precision Machined Rolled Threads provide smooth, easy installations.

Tempered Cast Aluminum Locknut with Teeth provides superior strength and electrical bonding and can be installed without a wrench in the enclosure.

Revolver® Grounding Fitting

Saves time and money using our infinitely adjustable rotating ground lug. Simply align the lug in your preferred position and tighten the gland. You'll never need to worry about tightening it into an inconvenient position again.



T&B's Heat-Curled Insulator

Competitor's Glue-In Insulator

Add suffix -GR to the fitting catalog number to order the Revolver® Grounding version.

Thomas&Betts
www.tnb.com

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Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Canada
Tel: 450.347.5318
Fax: 450.347.1976

Technical Services
Tel: 888.862.3289

Liquidtight Flexible Metal Conduit Connectors

Liquidtight Connectors

Liquidtight Flexible Metal Conduit Fittings

Thomas & Betts Liquidtight fittings for flexible metal conduits are suitable for a wide range of installations, including heavy industrial applications. Our Liquidtight fittings are designed to stand up to demanding, wet or corrosive environments, including power and petrochemical plants, paper mills, and anywhere high performance is a requirement.

Features of Thomas & Betts Liquidtight Fittings include:

- Safe Edge® ground cone design that accepts variations in raceway convolutions and provides a positive bond
- Continuous sealing ring that completely surrounds the conduit to ensure a liquid-tight seal
- Zinc chromatic plating for longer life and exceptional appearance
- The broadest liquid-tight line in the industry, including PVC coated, externally grounded, aluminum series, Chase® style, nonmetallic Bullet series, wire mesh grips and more

Liquidtight Fittings for Special Applications

The Revolver® Externally Grounded Fitting

The Revolver liquidtight grounding fitting is our latest breakthrough in convenience to save time and money on the job while delivering a quality connection.

The grounding lug of the new Revolver connector can be rotated in a full circle for convenient positioning that doesn't change when you tighten it. Plus, it's available for the first time in aluminum. It's the newest innovation in Thomas & Betts' versatile line of Liquidtight Connectors — fittings you can count on for liquidtight and dust-tight connections, because all our products revolve around your needs.

Chase-Style Fittings

Where space is tight, our Chase fittings enable for compact connections within an enclosure.

PVC-Coated Connectors

When environmental conditions are particularly harsh and corrosive, our PVC-coated connectors are the best choice for both indoor and outdoor applications. The PVC coating protects exposed surfaces for long-lasting, reliable connections.

Sealing Gaskets

Thomas & Betts sealing gaskets are resistant to oil, coolants and hydraulic fluids as well as water, with a stainless steel retaining clip that ensures a quality seal. They're the ideal match to our Liquidtight connectors for a safe and secure seal.

Liquidtight Flexible Non-Metallic Conduit Fittings

When non-metallic, Type A or EFC conduits are called for, Thomas & Betts' XTRA FLEX® System has our outstanding Bullet fittings and conduits for liquid- and dust-tight connections.

Bullet Fittings

- Feature one-piece construction and a captive O-ring for ease of installation
- Provide a positive seal between the conduit and the connector
- Has tapered thread hub and sealing O-ring for a tight seal to the box or other enclosure
- Are constructed of nonburning, nondripping thermoplastic for high strength chemical resistance
- Feature a smooth insulated body for maximum dielectric strength
- Have a patented, serrated finger design that provides high mechanical pullout strength
- Include a complete range of flexible, non-metallic conduits — including both smooth and corrugated varieties — to complete our XTRA FLEX® System

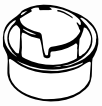
Liquidtight Flexible Metal Conduit Fittings

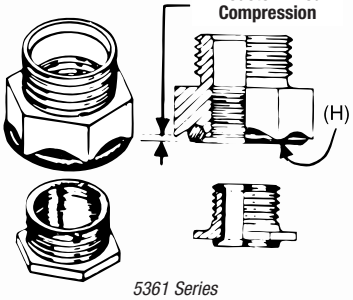
*5331 Series**
5231 AL Series

5361 Series

5271 Series

** 5341 Series…*
same as 5331, except 45° Connectors
5351 Series…
same as 5331, except 90° Connectors





5361 Series
Chase® Style

Application

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

Features

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

Sealing Ring Design Features

- (1) Grips and seals at leading and trailing edge — will not abrade raceway jacket (D)
- (2) Provided with grooves on inside diameter for anti-sleeving (E)
- (3) Shoulders on both ends for extra sealing (F)
- (4) Symmetrical shape assures foolproof assembly
- Can be disconnected and reused.
- Watertight/oil tight installation at box or enclosure termination is assured by:
  - (1) External taper thread hub on 5331 series and use of sealing gasket 5262 series (G)
  - (2) Captivated sealing O-Ring on 5361 series (H)
  - (3) Taper tapped hole on 5271 series
- Suitable for use in Class I Division 2, Class II Division 1 and 2 and Class III Division 1 and 2 Hazardous Locations per N.E.C. Section 500
- Suitable as a grounding means per NEC Section 351-9 (up to 1¼" trade size on)
- ½" & 1¼" sizes laboratory tested to carry ground fault current of up to 1,000 amps RMS with duration of fault current 3 cycles
- Conforms with JIC requirements
- Available with imperial, I.S.O. & PG threaded hub

Standard Material

5331-5361-5271 Series

Body, Gland, Locknut & Ground Cones: All steel or malleable iron

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket: Stainless Steel and Buna N

5231 AL Series

All Copper-free Aluminum (non-insulated)

5332SST Series

31L Stainless Steel insulated

5332B Series

Marine grade brass insulated avant

Standard Finish

5331-5361-5271 Series

Electro Zinc Plated & Chromate Coated

5231 AL Series

Copper-free Aluminum

Range

5331 Series . . . . . ⅜" thru 6"* conduit
5341 Series . . . . . ⅜" thru 4" conduit
5351 Series . . . . . ⅜" thru 4" conduit
5361 Series . . . . . ⅜" thru 4" conduit
5271 Series . . . . . ⅜" thru 1¼" conduit
5231 AL Series . . . . . ⅜" thru 4" conduit
5332SST Series . . . . . ½" & ¾" conduit
5332B Series . . . . . ½" & ¾" conduit

**All hubs provided with taper pipe threads (NPT)*

Listed/Certified by

UL . . . .(UL File No. E-23018)
CSA . . . .(LR-2884, LR-4484, LR-9555)

Conforms to

UL 514B
CSA C22.2 No. 18
NEMA FB-1
NFPA 70-1999 (ANSI)
JIC EGP1
JIC EMP1
Federal Specification W-F-406
Federal Standard H-28 (Threads)

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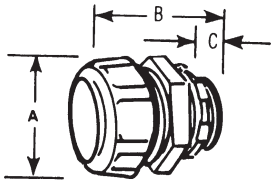
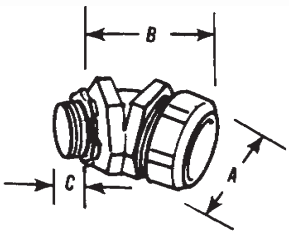
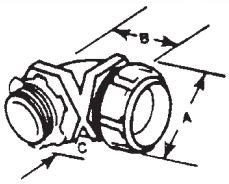
Liquidtight Flexible Metal Conduit Fittings



Steel malleable iron, or aluminum tapered hub threads. With safe-edge ground thru 4" cone and double bevel seating ring (through 2").



Malleable iron, tapered hub threads. With safe-edge ground cone and double bevel sealing ring (through 2").



52® and 53™ Series Liquidtight Straight Connectors*

CAT. NO. INSULATED STEEL	CAT. NO. NON-INSULATED STEEL	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C
5229‡	—	¼"	27/32	1⅜	15/32
5330‡	—	5/16"	63/64	1⅜	15/32
5331†**	5231†	⅜"	1 5/32	1½	9/16
5332†	5232†	½"	1⅜	1 3/16	9/16
5333†	5233†	¾"	1 21/32	1⅝	9/16
5334†	5234†	1"	1⅞	2 1/16	¾
5335†	5235†	1¼"	2 3/32	2½	13/16
5336	5236	1½"	2 23/32	2 11/16	13/16
5337	5237	2"	3¼	3 1/16	⅞
5338	5238	2½"	3¾	4⅛	1
5339	5239	3"	4½	4¼	1
5340	5240	4"	5½	4½	1⅛
5385‡	5285	5"	8¾	7	1⅞
5386‡	—	6"	8¾	8½	2

52® and 53™ Series Liquidtight 45° Angle Connectors*

CAT. NO. INSULATED	CAT. NO. NON-INSULATED	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C
5341†**	5241†	⅜"	1 5/32	1 9/16	9/16
5342†	5242†	½"	1⅜	1⅞	9/16
5343†	5243†	¾"	1 21/32	2⅛	9/16
5344†	5244†	1"	1⅞	2¼	¾
5345†	5245†	1⅜"	2 3/32	2¾	13/16
5346	5246	1½"	2 23/32	3⅜	13/16
5347	5247	2"	3¼	3⅜	⅞
5348	5248	2½"	3¾	4¼	1
5349	5249	3"	4½	4¼	1
5350	5250	4"	5½	4⅝	1⅛

52® and 53™ Series Liquidtight 90° Angle Connectors

CAT. NO. INSULATED	CAT. NO. NON-INSULATED	HUB SIZE	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C
5351	5251	½"	⅜"	1 5/32	1⅜	9/16
5352	5252	½"	½"	1⅜	1 9/16	9/16
5353	5253	¾"	⅜"	1 21/32	1¾	9/16
5354	5254	1"	1"	1⅞	2 3/16	¾
5355	5255	1¼"	1¼"	2 3/32	2¾	13/16
5356	5256	1½"	1½"	2 23/32	2 15/16	13/16
5357	5257	2"	2"	3¼	3 7/16	⅞
5358	5258	2½"	2½"	3¾	8⅞	1
5359	5259	3"	3"	4½	10¼	1
5360	5260	4"	4"	5½	12⅝	1⅛

** Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 1 and 2; Class III, Div. 1 and 2, where general purpose equipment is specifically permitted per NEC Section 500-2(a).*
*** ⅜" Conduit Fitting has ½" hub.*
† UL Listed as grounding means under NEC 351-7.
‡ Not UL Listed.

Note: UL Listed liquidtight; and CSA Certified watertight. Available with DURA-PLATE® Finish.
UL File No. E-23018
CSA File No. 2884

*For Wiremesh Grips, refer to **pages A-111** and **A-141**.*

Liquidtight Flexible Metal Conduit Fittings

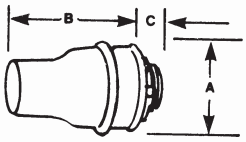
Corrosion-Resistant PVC Jacketed Liquidtight Connectors

CAT. NO.	CONDUIT SIZE	A	B	C
Straight PVC Coated				
3321†	⅜"	1 15/32"	2 5/16"	9/16"
3322†	½"	1⅝"	2½"	9/16"
3323†	¾"	1 15/16"	2 25/32"	9/16"
3324†	1"	2¼"	3¼"	¾"
3325†	1¼"	2 11/16"	4¼"	13/16"
3326	1½"	3⅛"	4 11/16"	13/16"
3327	2"	3⅝"	5 1/16"	⅞"
3328	2½"	4⅜"	6⅜"	1"
3329	3"	5 5/16"	6½"	1"
3331	4"	6 7/16"	6¾"	1⅛"

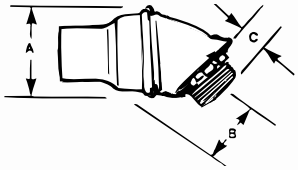
CAT. NO.	CONDUIT SIZE	A	B	C
45° PVC Coated				
3341†	⅜"	1¼	1⅛"	9/16"
3342†	½"	1⅝"	1¼"	9/16"
3343†	¾"	1 15/16"	1 7/16"	9/16"
3344†	1"	2¼"	1 13/16"	¾"
3345†	1¼"	2 11/16"	2 1/16"	13/16"
3346	1½"	3⅛"	2 11/16"	13/16"
3347	2"	3⅝"	3 1/16"	⅞"
3348	2½"	4⅜"	3 13/16"	1"
3349	3"	5 5/16"	4 9/16"	1"
3352	4"	6 7/16"	5¾"	1⅛"

CAT. NO.	CONDUIT SIZE	A	B	C
90° PVC Coated				
3361†	⅜"	1¼"	2 3/16"	9/16"
3362†	½"	1⅝"	2½"	9/16"
3363†	¾"	1 15/16"	2 29/32"	9/16"
3364†	1"	2¼"	3 13/32"	¾"
3365†	1¼"	2 11/16"	4½"	13/16"
3366	1½"	3⅜"	4 15/16"	13/16"
3367	2"	3⅝"	5 1/16"	⅞"
3368	2½"	4⅜"	11⅛"	1"
3369	3"	5 5/16"	12½"	1"
3371	4"	6 7/16"	14 7/8"	1⅛"

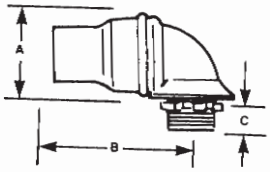
† UL Listed as grounding means per NEC. SECT. 351.7
Complies with JIC standards and Federal Specs A-A-50552, A-A-50553
Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 1 and 2; Class III, Div. 1 and 2, where general purpose equipment is specifically permitted per NEC Section 500-2(a).
Meets Coast Guard CG293
UL File No. E 23018
CSA File No. 2884
UL Type 3, 3R, 3S, 4, 5, 12, 12K & 13 Locations



Straight PVC Coated Nylon Insulated Steel or Malleable NPT hub threads



45° PVC Coated Nylon Insulated NPT hub threads



90° PVC Coated Nylon Insulated NPT hub threads

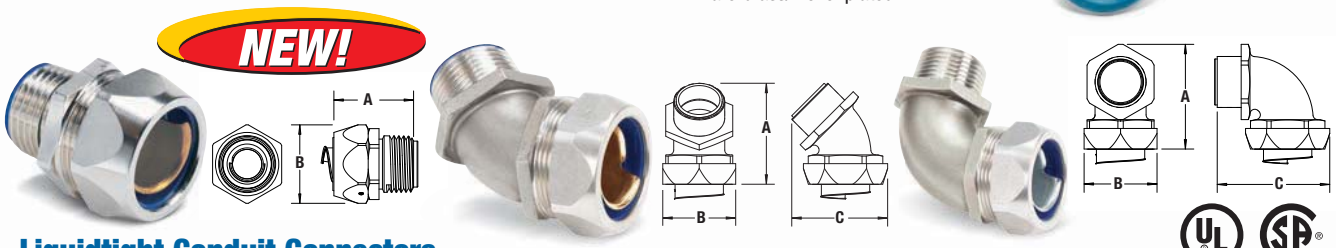
The strength of steel — with superior corrosion-resistance!

Stainless Steel Liquidtight Conduit Connectors

Until now, there's been no ideal conduit fitting solution for use in heavily corrosive environments. Traditional metallic fittings corrode and require frequent replacement. Non-metallic fittings offer less strength, lower UV-resistance and don't stand up well in extreme temperatures. T&B® Stainless Steel Liquidtight Conduit Connectors are constructed of 304 stainless steel to resist corrosion while offering high strength, high UV-resistance and high endurance. Choose among a full range of fittings in straight, 45°, and 90° angled configurations for ⅜" to 2" conduit sizes. Look for the distinctive blue insulator and sealing ring for assurance of T&B quality.

- Ideal for industrial MRO and OEM applications in food and beverage, pharmaceutical, petrochemical, wastewater, salt water and other corrosive environments
- Connects metallic-cored liquidtight conduit to a box or enclosure
- 304 stainless steel body and gland-nut resists corrosion far better than other metallic fittings
- Stronger, more UV-resistant than nonmetallic fittings
- Ground cones are available in 1¼", 1½" and 2" sizes and are brass/nickel plated
- Available in straight, 45°, and 90° angled configurations to fit conduit from ⅜" to 2"
- UL® Listed Ratings: 3, 3R, 4, 4X
- 5262 Sealing Ring Gasket (sold separately) includes a stainless steel retaining ring to prevent elongation of the gasket and is made from Santoprene™ material, ensuring a superior seal

5262 Series Sealing Ring Gasket sold separately



Liquidtight Conduit Connectors

CAT. NO.	SIZE	DIMENSIONS A	B	C	STD. PKG. QTY.
Straight					
5331SST	⅜"	1.360"	1.02"	—	25
5332SST	½"	1.360"	1.18"	—	25
5333SST	¾"	1.388"	1.37"	—	25
5334SST	1"	1.562"	1.77"	—	5
5335SST	1¼"	1.720"	2.12"	—	20
5336SST	1½"	2.020"	2.48"	—	5
5337SST	2"	2.335"	3.04"	—	2

CAT. NO.	SIZE	DIMENSIONS A	B	C	STD. PKG. QTY.
45° Angled					
5341SST	⅜"	1.84"	1.02"	1.43"	25
5342SST	½"	1.62"	1.18"	2.04"	25
5343SST	¾"	2.32"	1.37"	1.93"	10
5344SST	1"	2.86"	1.77"	2.37"	5
5345SST	1¼"	3.33"	2.12"	2.80"	5
5346SST	1½"	3.94"	2.48"	3.39"	2
5347SST	2"	4.73"	3.04"	4.23"	1

CAT. NO.	SIZE	DIMENSIONS A	B	C	STD. PKG. QTY.
90° Angled					
5351SST	⅜"	1.95"	1.02"	1.84"	25
5352SST	½"	2.12"	1.18"	2.07"	25
5353SST	¾"	2.47"	1.37"	2.44"	10
5354SST	1"	2.98"	1.77"	2.90"	5
5355SST	1¼"	3.53"	2.12"	3.36"	5
5356SST	1½"	4.16"	2.48"	3.88"	2
5357SST	2"	8.60"	3.04"	4.69"	1

CAT. NO.	SIZE	DIMENSIONS A	B	C	STD. PKG. QTY.
Sealing Gasket					
5261	⅜"	—	—	—	50
5262	½"	—	—	—	50
5263	¾"	—	—	—	25
5264	1"	—	—	—	25
5265	1¼"	—	—	—	5
5266	1½"	—	—	—	5
5267	2"	—	—	—	5

Blue is a trademark color of Thomas & Betts.

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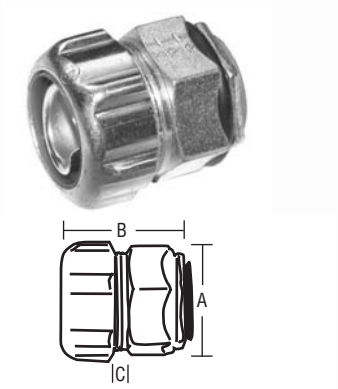
Liquidtight Flexible Metal Conduit Fittings

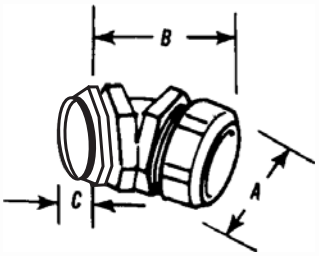


Steel or malleable iron with O-Ring Seal

Nylon Insulated CHASE® Connectors

CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C
5361†	⅜"	1 3/32	1⅜	⅛
5362†	½"	1⅜	1⅜	3/16
5363†	¾"	1 11/16	1⅝	¼
5364†	1"	2 1/32	2 1/16	¼
5365†	1¼"	2⅜	2⅜	5/16
5366†	1½"	2 5/16	2¾	⅜
5367†	2"	3 3/16	3	⅜
5368†	2½"	4⅜	3 15/16	7/16
5369†	3"	5⅛	4⅛	½
5370†	4"	5⅛	4⅛	½

With SAFE-EDGE® ground cone and double bevel sealing ring (through 2").



Malleable iron

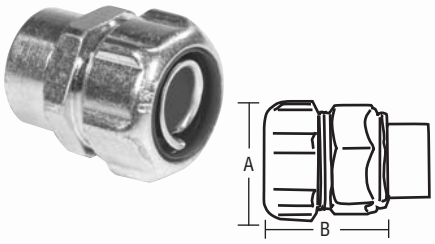
Nylon Insulated 90° Angle CHASE® Connectors

CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C
5371†	⅜"	1 3/32	1½	3/16
5372†	½"	1 15/64	1 15/32	3/16
5373†	¾"	1 31/64	1⅞	9/32
5374†	1"	1 23/32	2¼	11/32

With SAFE-EDGE® ground cone and double bevel sealing ring.

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

†UL listed as grounding means under NEC 351-7.



Standard Liquidtight Female Hub Adapter

CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.) A	B
5271†	⅜"	1 5/32	1 9/16
5272†	½"	1⅜	1 11/16
5273†	¾"	1 21/32	1¾
5274†	1"	1⅞	2⅛
5275†	1¼"	2 9/32	2½

†U.L. Listed as grounding means under NEC 351-7.

Prevents severe conduit bends and pullout!

Wiremesh Grips for Liquidtight Fittings

CAT. NO.	CONDUIT SIZE	LIQUIDTIGHT CONNECTORS STRAIGHT	45°	90°	90° CHASE	CHASE	ADAPTER
WMG-LT1	⅜"	5331	5341	5351	5361	5371	5271
WMG-LT2	½"	5332	5342	5352	5362	5372	5272
WMG-LT3	¾"	5333	5343	5353	5363	5373	5273
WMG-LT4	1"	5334	5344	5354	5364	5374	5274
WMG-LT5	1¼"	5335	5345	5355	5365	—	5275
WMG-LT6	1½"	5336	5346	5356	5366	—	5276
WMG-LT7	2"	5337	5347	5357	5367	—	5277
WMG-LT8	2½"	5338	5348	5358	5368	—	5278
WMG-LT9	3"	5339	5349	5359	5369	—	5279
WMG-LT10	4"	5340	5350	5360	5370	—	5282

Order wiremesh grip separately: no need to duplicate inventory.

UL File No. E23018

CSA File No. 2884 & 4484

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

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Technical Services
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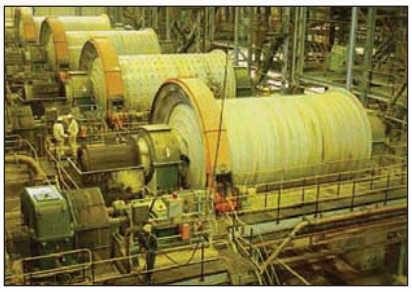
Thomas&Betts
www.tnb.com

Aluminum Liquidtight Conduit

NEW!



Ideal for lightweight requirements such as trains, planes and on oil platforms.

Designed to resist corrosion.

Flexible Aluminum Conduit

Use T&B's new LTA Flexible Aluminum Conduit with T&B AL-Series Liquidtight Fittings in corrosive environments or where weight is a major consideration — such as oil platforms, saltwater applications, pulp and paper, refineries, wastewater and food processing.

- Aluminum conduit engineered to be light and corrosion resistant
- The lightweight solution for mission-critical applications

Specifications

- Construction: Utilizes the flexibility of a lightweight aluminum core, coupled with the advantage of a PVC jacket that is virtually unaffected by sunlight, acid and oil. WEE and RoHS compliant
- Application: Used in situations where concerns of excessive weight and corrosion exist
- Standard Color: Machine tool gray
- Working Temperature: -20˚ C to +80˚ C

Revolver® Grounding Fitting

Save time and money using our infinitely adjustable rotating ground lug. Simply align the lug in your preferred position and tighten the gland. You'll never need to worry about tightening it into an inconvenient position again.

The T&B Aluminum Conduit and Fitting system suits the corrosive conditions of food processing plants.

Add suffix -GR to the fitting catalog number to order the Revolver® Grounding version.

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Aluminum Liquidtight Conduit

Specifications for LTA Conduit

- Construction: Utilizes the flexibility of a lightweight aluminum core, coupled with the advantage of a PVC jacket that is virtually unaffected by sunlight, acid and oil. WEEE and RoHS compliant
- Application: Used in situations where concerns of excessive weight and corrosion exist
- Standard Color: Machine tool gray
- Working Temperature: -20˚ C to +80˚ C
- Standard Materials/Finish: LTA Conduit
  Conduit Core: Aluminum
  Outer Jacket: PVC

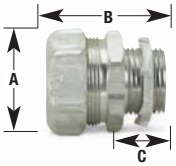
LTA Aluminum Flexible Liquidtight Conduit

CAT. NO.	CONDUIT SIZE	LENGTH (FT.)	INSIDE BEND RADIUS (IN.)	WT. (LBS.)/ 100 FT.	WT. (LBS.)/ 50 FT.
LTA50-100	½"	100	2.5	15	—
LTA75-100	¾"	100	3.0	20	—
LTA100-100	1"	100	4.0	29	—
LTA125-50	1¼"	50	4.5	—	20
LTA150-50	1½"	50	5.5	—	28
LTA200-50	2"	50	7.0	—	36.5
LTA250-25	2½"	25	9.5	188	—
LTA300-25	3"	25	11.5	244	—
LTA400-25	4"	25	14	332	—

Add suffix -GR to the fitting catalog number to order the Revolver® Grounding version.

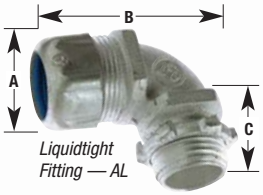
Standard Materials/Finish

Fittings — Body, Gland, Locknut . . . . . Aluminum
Sealing Ring. . . . . Thermoplastic
Zinc Plating with Clear
Chromate Ground Cones



Liquidtight Fitting — AL

Liquidtight Grounded Fittings — ALGR



Liquidtight Fitting — AL

52® Series Liquidtight Fittings — AL

CAT. NO.	CONDUIT SIZE	DIMENSIONS A	B	C
Straight				
5231AL	⅜"	1 5/32"	1½"	9/16"
5232AL	½"	1⅜"	1 9/16"	9/16"
5233AL	¾"	1 21/32"	1⅝"	9/16"
5234AL	1"	1⅞"	2 1/16"	¾"
5235AL	1¼"	2 3/32"	2½"	13/16"
5236AL	1½"	2 22/32"	2 11/16"	13/16"
5237AL	2"	3¼"	3 1/16"	⅞"
5238AL	2½"	3¾"	4⅛"	1"
5239AL	3"	4½"	4¼"	1"
5240AL	4"	5½"	4½"	1⅛"
90°				
5251AL	⅜"	1 5/32"	1⅜"	9/16"
5252AL	½"	1⅜"	1 9/16"	9/16"
5253AL	¾"	1 21/32"	1¾"	9/16"
5254AL	1"	1⅞"	2 3/16"	¾"
5255AL	1¼"	2 3/32"	2¾"	13/16"
5256AL	1½"	2 23/32"	2 15/16"	13/16"
5257AL	2"	3¼"	3 7/16"	⅞"

Liquidtight Grounded Fittings — ALGR

CAT. NO.	CONDUIT SIZE	DIMENSIONS A	B	C
Straight				
5231ALGR	⅜"	1 5/32"	1½"	9/16"
5232ALGR	½"	1⅜"	1 9/16"	9/16"
5233ALGR	¾"	1 21/32"	1⅝"	9/16"
5234ALGR	1"	1⅞"	2 1/16"	¾"
90°				
5251ALGR	⅜"	1 5/32"	1¼"	9/16"
5252ALGR	½"	1⅜"	1 7/16"	9/16"
5253ALGR	¾"	1 21/32"	1 13/16"	9/16"
5254ALGR	1"	1⅞"	2 1/16"	¾"

Ground Wire D 14-8 — 5231ALGR, 5232ALGR

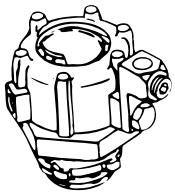
Ground Wire D 14-4 — 5233ALGR, 5234ALGR

Ground Wire D 14-8 — 5251ALGR, 5252ALGR

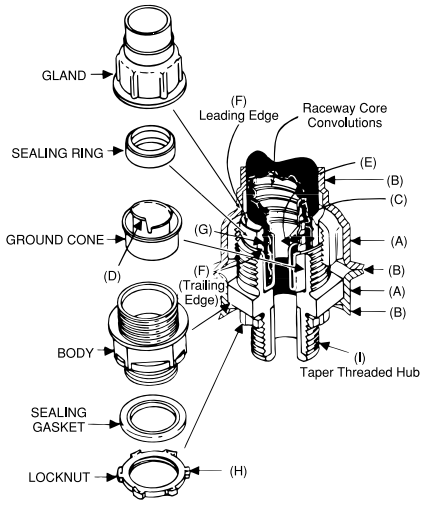
Ground Wire D 14-4 — 5253ALGR, 5254ALGR

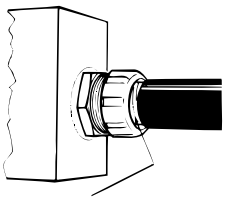
Liquidtight Flexible Metal Conduit Fittings

External Bonding Liquidtight Flexible Metal Conduit Connectors



Series 5331GR





Sleeving
Raceway Jacket pulls off — exposing core and affecting liquidtight termination. Feature (E) on sealing ring helps overcome this problem.

Application

- Used where external bonding jumper is required around liquidtight flexible metal conduit
- To positively bond conduit to box or enclosure
- Used where flexible raceway is installed in outdoor or indoors location where exposed to continuous or intermittent moisture

Features

- Designed with provision to install bonding jumper in several positions
- Designed to accept mechanical or compression lug
- Ability to install quickly with low torque effort
  - (1) Compressed metallic convolutions; assures ground contact with low impedance and high raceway holding power (A)
  - (2) Single helical thread on ground cone is easy to install without cross thread; accepts variations in raceway diameters and convolution pitch (B)
  - (3) Rolled over edge protects conductors (C)
- Sealing ring design has following exclusive features:
  - (1) Grips and seals at leading and trailing edge — will not abrade raceway jacket (D)
  - (2) Provided with grooves on inside diameter for anti-sleeving (E)
  - (3) Shoulders on both ends for extra sealing (F)
  - (4) Symmetrical shape ensures foolproof assembly
- Can be disconnected and reuse
- Watertight/oil tight installation at box or enclosure termination is ensured by:
  - (1) External taper thread hub on 5331GR series and use of sealing gasket 5262 series (G)
  - (2) Taper tapped hole on 5271 series
- Suitable for use in Class I Division 2, Class II Division 1 & 2 and Class III Division 1 & 2 Hazardous Locations per NEC Article 500
- Suitable as a bonding means per UL 467 and NEC Article 351-9
- Conforms with JIC requirements

Standard Material

Lugs: High conductivity copper (for copper conductor only)

Body, Gland, Locknut & Ground Cones: All steel or malleable iron

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket: Stainless Steel and Santoprene

Strap: Steel

Standard Finish

All Electro Zinc Plated and Chromate Coated except lugs

Lugs: Bright Dipped

Range

5331GR Series (straight connectors with male hub): ⅜" thru 6" conduit

5341GR Series (45°): ⅜" thru 4" conduit

5351GR Series (90°): ⅜" thru 4" conduit

5232ALGR Series: ⅜" thru 1" conduit

All hubs provided with taper pipe threads (NPT)

Listed/Certified by

UL File #E-23018

CSA

Conforms to

UL 467

UL 514B

CSA C22.2 No. 18

CSA22.2 No. 41

NEMA FB-1

NFPA 70

JIC EGP1

JIC EMP1

Federal Specification A-A-50552

Federal Standard H-28 (threads)

1 per C.E. Code, this method is not permissible.

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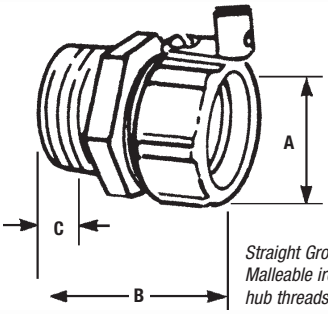
Liquidtight Flexible Metal Conduit Fittings

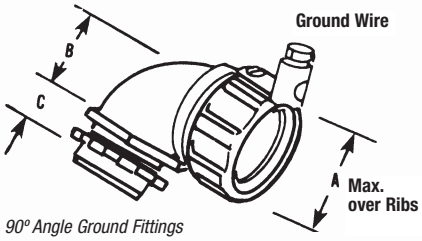
Malleable iron with tapered hub threads!

Grounding Fittings — Straight*, 45° Angle and 90° Angle

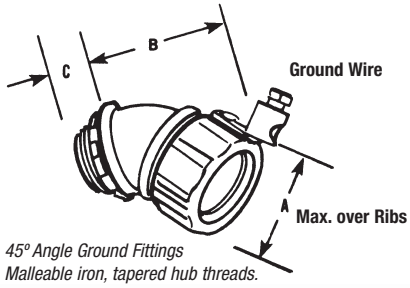
Revolver® Ground Ring



Straight Ground Fittings
Malleable iron, tapered hub threads.



90° Angle Ground Fittings
Malleable iron tapered hub threads.



45° Angle Ground Fittings
Malleable iron, tapered hub threads.

CAT. NO. STEEL INSULATED	CAT. NO. STEEL NON-INSULATED	CAT. NO. ALUMINUM NON-INSULATED	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C	GROUND WIRE D
Straight Grounding Fittings							
5331GR**	5231GR*	5231 ALGR*	⅜"	1 5/32	1½	9/16	14-8
5332GR*	5232GR*	5232ALGR*	½"	1⅜	1 5/16	9/16	14-8
5333GR*	5233GR*	5233ALGR*	¾"	1 21/32	1⅝	9/16	14-4
5334GR*	5234GR*	5234ALGR*	1"	1⅞	2 1/16	¾	14-4
5335GR	5235GR	—	1¼"	2¼	2½	13/16	8-1/0
5336GR	5236GR	—	1½"	3¼	2 11/16	13/16	4-2/0
5337GR	5237GR	—	2"	3 13/16	3 5/16	⅞	4-2/0
5338GR	5238GR	—	2½"	4 7/16	4⅛	1	2-4/0
5339GR	5239GR	—	3"	5 5/16	4¼	1	2-4/0
5340GR	5240GR	—	4"	6⅜	4½	1⅛	2-4/0
5385GR	5285GR	—	5"	8 9/16	7	1⅛	2-4/0
5386GR	—	—	6"	8 17/32	8½	2	2-4/0
90° Angle Grounding Fittings							
5351GR**	5251GR**	5251ALGR*	⅜"	1 5/32	1¼	9/16	14-8
5352GR*	5252GR*	5252ALGR*	½"	1⅜	1 7/16	9/16	14-8
5353GR*	5253GR*	5253ALGR*	¾"	1 21/32	1 13/16	9/16	14-4
5354GR*	5254GR*	5254ALGR*	1"	1⅞	2 1/16	¾	14-4
5355GR*	5255GR	—	1¼"	2¼	2½	13/16	8-1/0
5356GR	5256GR	—	1½"	3¼	2 15/16	13/16	4-2/0
5357GR	5257GR	—	2"	3 13/16	3 5/16	⅞	4-2/0
5358GR	5258GR	—	2½"	4 7/16	8⅛	1	2-4/0
5359GR	5259GR	—	3"	5 5/16	10¼	1	2-4/0
5360GR	5260GR	—	4"	6⅛	12⅝	1⅛	2-4/0

CAT. NO. INSULATED	CAT. NO. NON-INSULATED	CONDUIT SIZE	DIMENSIONS (IN.) A	B	C	GROUND WIRE D
45° Angle Grounding Fittings						
5341GR**	5241GR**	⅜"	1 5/32	1 5/16	9/16	14-8
5342GR*	5242GR*	½"	1⅜	1⅞	9/16	14-8
5343GR*	5243GR*	¾"	1 21/32	2⅛	9/16	14-4
5344GR*	5244GR*	1"	1⅞	2¼	¾	14-4
5345GR	5245GR	1¼"	2¼	2¾	13/16	8-1/0
5346GR	5246GR	1½"	3¼	3⅜	13/16	4-2/0
5347GR	5247GR	2"	3 13/16	3⅜	⅞	4-2/0
5348GR	5248GR	2½"	4 7/16	4¼	1	2-4/0
5349GR	5249GR	3"	5 5/16	4¼	1	2-4/0
5350GR	5250GR	4"	6⅛	4⅝	1⅛	2-4/0

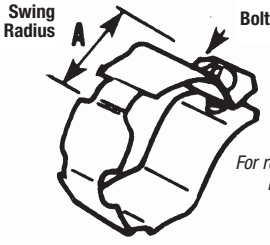
*** ⅜" conduit fittings have ½" trade size hub. With safe-edge ground cone (through 4") and double bevel sealing ring (through 2").*

UL Listed liquidtight; and CSA Certified watertight. Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 1 and 2; Class III, Div. 1 and 2, where general purpose equipment is specifically permitted per NEC Section 500-2(a). Available with DURA-PLATE® Finish. UL File No. E 3060 CSA File No. 638

***NOTE:** ⅜"–1" fittings include Revolver® grounding device. For sizes 1¼" and up, fittings are supplied with a copper mechanical lug.*

For retrofit applications — includes strap, nut and bolt!

External Grounding Strap



For retrofit applications. Includes strap, nut and bolt.

CAT. NO.	CONDUIT SIZE	A	B BOLT SIZE
GR1W	⅜"	1"	10-24
GR2W	½"	1 1/16"	10-24
GR3W	¾"	1⅜"	¼-20
GR4W	1"	1½"	¼-20
GR5W	1¼"	1⅞"	5/16-18

UL File No. E-3060 CSA File No. 638

Liquidtight Flexible Metal Conduit Fittings

52® Series High-Temperature Flexible Metal Liquidtight Fittings

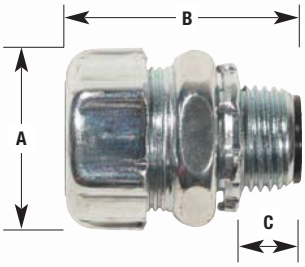
Where liquidtight flexible metal fittings are required in high-temperature environments up to 150° C:

T&B HT-Series Liquidtight Fittings are available straight, 45° and 90°.

- Fitting's body, gland, locknut and ground cone shall be constructed from steel or malleable iron, electro-zinc plated and chromate coated for corrosion protection
- Fitting's sealing ring and throat insulator will be molded from high-temperature nylon, suitable for temperatures up to 150° C and a minimum UL flammability rating of UL94-V2
- The fitting shall be constructed to accept high temperature flexible metal liquidtight conduit rated to 150° C
- The fitting shall have a plastic throat insulator to protect conductors
- The fitting shall have a steel ground cone to:
  - — provide high quality ground contact
  - — single helical thread for easy installation into conduit
  - — rolled over edge to protect conductors
- The fitting shall have a plastic sealing ring to:
  - — grip and seal at leading and trailing edge (double bevel up to 2") of conduit jacket
  - — provide a watertight/oiltight seal
- The fittings shall be capable to terminate the conduit in either a threaded or threadless opening
- For applications where termination into a threaded opening is required, the fitting shall have external taperedNPT threads
- Fittings shall conform to UL 514B
- Accepted Manufacturers: Thomas & Betts — 5331-HT straight series, 5341-HT 45° series, 5351-HT 90° series; 5262 sealing ring series

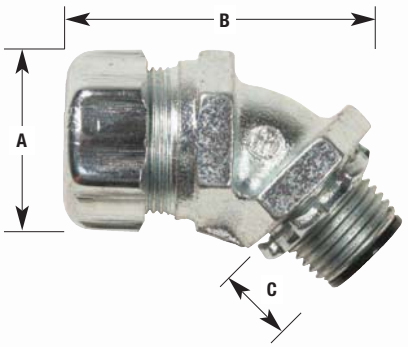
ATX Flexible Liquidtight Conduit

CAT NO.	CONDUIT SIZE	LENGTH (FT.)	INSIDE BEND RADIUS (IN.)
ATX038-TB	3/8"	100	1.5
ATX050-TB	1/2"	100	2.0
ATX075-TB	3/4"	100	2.5
ATX100-TB	1"	100	3.0
ATX125-TB	1 1/4"	50	3.5
ATX150-TB	1 1/2"	50	4.5
ATX200-TB	2"	50	5.5
ATX250-TB	2 1/2"	25	8.0
ATX300-TB	3"	25	10.0
ATX400-TB	4"	25	12.0



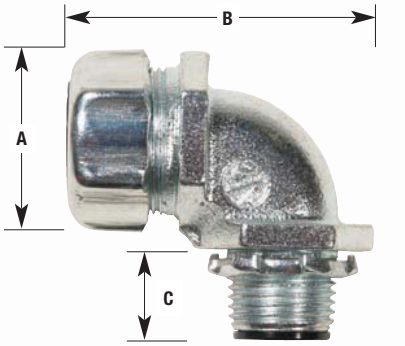
Straight Liquidtight Fittings — HT

CAT. NO.	CONDUIT SIZE	DIMENSIONS A	B	C
5331-HT	3/8"	1 5/32"	1 1/2"	9/16"
5332-HT	1/2"	1 3/8"	1 9/16"	9/16"
5333-HT	3/4"	1 21/32"	1 5/8"	9/16"
5334-HT	1"	1 7/8"	2 1/16"	3/4"
5335-HT	1 1/4"	2 9/32"	2 1/2"	13/16"
5336-HT	1 1/2"	2 22/32"	2 11/16"	13/16"
5337-HT	2"	3 1/4"	3 1/16"	7/8"
5338-HT	2 1/2"	3 3/4"	4 1/8"	1"
5339-HT	3"	4 1/2"	4 1/4"	1"
5340-HT	4"	5 1/2"	4 1/2"	1 1/8"



45° Liquidtight Fittings — HT

CAT. NO.	CONDUIT SIZE	DIMENSIONS A	B	C
5341-HT	3/8"	1 5/32"	1 9/16"	9/16"
5342-HT	1/2"	1 3/8"	7/8"	9/16"
5343-HT	3/4"	1 21/32"	2 1/8"	9/16"
5344-HT	1"	1 7/8"	2 1/4"	3/4"
5345-HT	1 1/4"	2 9/32"	2 3/4"	13/16"
5346-HT	1 1/2"	2 22/32"	2 3/8"	13/16"
5347-HT	2"	3 1/4"	3 7/8"	7/8"



90° Liquidtight Fittings — HT

CAT. NO.	CONDUIT SIZE	DIMENSIONS A	B	C
5351-HT	3/8"	1 5/32"	1 3/8"	9/16"
5352-HT	1/2"	1 3/8"	1 9/16"	9/16"
5353-HT	3/4"	1 21/32"	1 3/4"	9/16"
5354-HT	1"	1 7/8"	2 3/16"	3/4"
5355-HT	1 1/4"	2 3/32"	2 3/4"	13/16"
5356-HT	1 1/2"	2 22/32"	2 5/16"	13/16"
5357-HT	2"	3 1/4"	3 7/16"	7/8"

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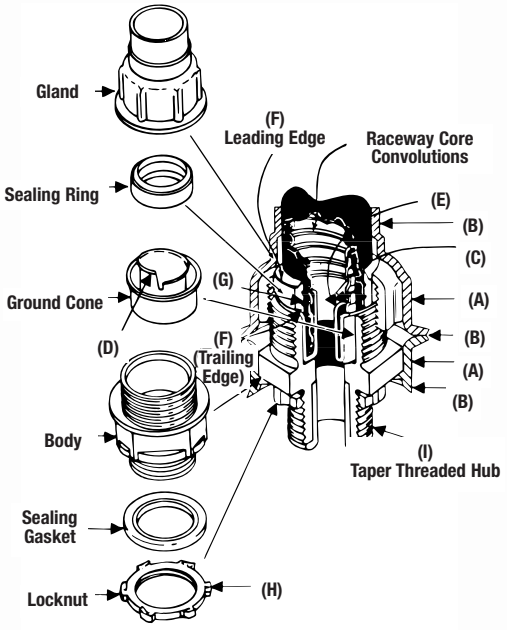
Liquidtight Flexible Metal Conduit Fittings

3321 Series*

*3361 Series...
same as 3321, except 90°
3341 Series...
same as 3321, except 45°*



3321 Series

Liquidtight Flexible Metal Conduit Connectors (PVC Coated)

Application

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

Features

- PVC coated to protect connector from extremely corrosive surroundings without affecting integrity of electrical grounding path (A)
- Provided with overlapping sleeve for additional seal (B)
- Ability to install quickly with low torque effort
- Ground cone design offers following advantages:
  - (1) Compresses metallic convolutions; provides high quality ground contact with low impedance and high raceway holding power (C)
  - (2) Single helical thread on ground cone is easy to install without cross threading; accepts variations in raceway diameters and convolution pitch (D)
  - (3) Rolled over edge protects conductors (E)
- Sealing ring design has following exclusive features:
  - (1) Grips and seals at leading and trailing edge — will not abrade raceway jacket (F)
  - (2) Provided with grooves on inside diameter for anti-sleeving (G)
  - (3) Shoulders on both ends for extra sealing
  - (4) Symmetrical shape ensures foolproof assembly
- Hardened steel or malleable iron locknut (H)
- Can be disconnected and reused
- Watertight/oil tight installation at box or enclosure termination is provided by — external taper thread hub and sealing gasket (I)
- Suitable for use in Class I Division 2, Class II Division 1 & 2 and Class III Division 1 & 2 Hazardous Locations per NEC Article 500
- Suitable as a grounding means per NEC Section 351-9 (up to 1¼" trade size)
- Conforms with JIC requirements

Standard Material

Body, Gland, Locknut & Ground Cones:
All steel or malleable iron

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket, Retainer — Stainless Steel:
Resilient Seal: Santoprene

Coating — PVC

Outside of body & gland…PVC Coated

Inside of body & gland…Electro Zinc Plated & Chromate Coated

Locknut & Sealing Gasket, Retainer…Electro Zinc Plated & Chromate Coated

Range

3321, 3361 & 3341 Series…⅜" thru 4" conduit

All hubs provided with taper pipe threads (NPT)

Listed/Certified by:

UL (UL File E23018)

CSA . . . . . (LR-2884, LR-4484)

Conforms to:

UL 514B

CSA C22.2 No. 18

NEMA FB-1

NFPA 70

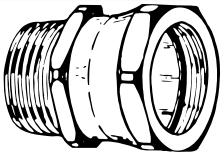
JIC EGP1

JIC EMP1

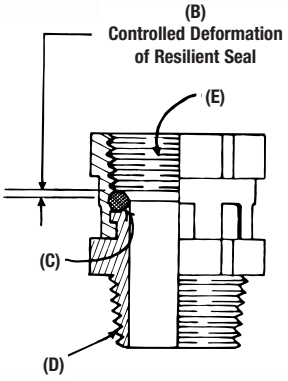
Federal Specification A-A-50552

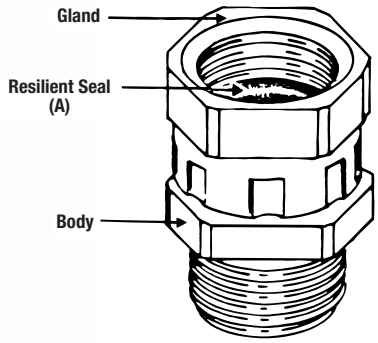
Federal Standard H-28 (THREADS)

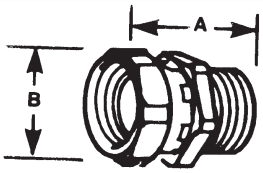
Liquidtight Flexible Metal Conduit Fittings



41 Series







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

Liquidtight Union for Threaded Hub

Application

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

Features

- Design provides high quality bond between fitting or pipe to the union
- Provided with resilient seal (A)
- Resilient seal subjected to controlled deformation; positive seal and reusability are ensured (B)
- Unique design centralizes throat openings of threaded hub and union (C)
- Permits orientation of fitting in any predetermined direction for a safe, functional and neat assembly
- Provided with taper threaded hub for liquidtight assembly (D)
- Straight pipe threads on gland accept a straight or taper threaded hub on fitting or pipe to be coupled (E)
- Suitable for hazardous location use per NEC Article 501 Class I, Division 2, Article 502 Class II, Division 1 & 2 and Article III Division 1 & 2

Standard Material/Finish

Gland.....Steel/Electro Zinc Chromate Coated
Body.....Steel/Electro Zinc Chromate Coated
O-Ring.....Buna N/As Molded

Range

Hub (External Thread).....½" & ¾" NPT
Gland (Internal Threads).....½" & ¾" NPS

Listed/Certified by

UL.....(UL File No. E-23018)
CSA.....(LR-2884, LR-4484)

Conforms to

UL 514B
CSA C22.2 No. 18
NEMA FB1
NFPA 70
Federal Standard A-A-50553
Federal Standard A-A-50552
Federal Standard H-28 (Threads)

NOTE: For additional product information refer to Thomas & Betts publication 600.1

CAT. NO.	CONDUIT SIZE	A	B
41-TB	½"	1 29/64"	1"
42-TB	¾"	1 15/16"	1¼"

UL File No. E 23018

CSA File No. 2884

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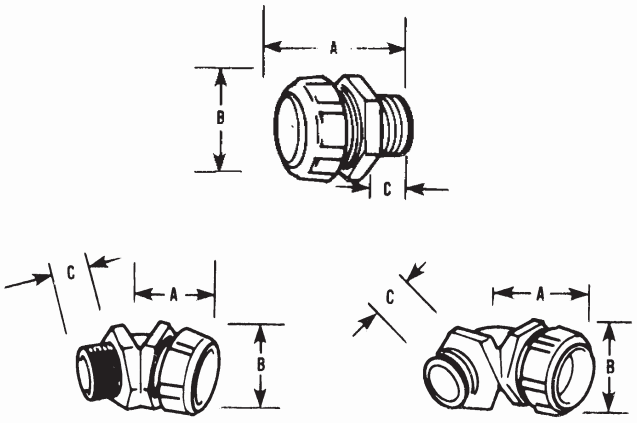
Liquidtight Flexible Metal Conduit Fittings

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

PG Metric Thread Liquidtight Fittings*



Fittings for Liquidtight flexible metal conduit with metric threads of PG Form (DIN 40430).

CAT. NO.	FLEXIBLE CONDUIT SIZE	METRIC PG THREAD	A MM	B MM	C MM
Nylon insulated straight connectors					
7330	¼"	9	36	21	12
7331	¼"	11	36	21	12
7360	5/16"	9	36	26	12
7361	⅜"†	11	40	29	14
7362	⅜"†	13.5	40	29	14
7363	1½"†	16	41	35	14
7364	¾"†	21	43	42	14
7365	1"†	29	56	47	19
7366	1¼"†	36	67	58	21
7367	1½"	42	72	69	21
7368	2"	48	81	83	21
Nylon insulated 45° angle connectors					
7341	⅜"†	11	27	29	14
7342	⅜"†	13.5	27	29	14
7343	½"†	16	30	35	14
7344-TB	¾"†	21	34	42	14
7345	1"	29	44	47	19
7346	1¼"†	36	51	58	19
7347	1½"	42	60	69	21
7348-TB	2"	48	73	76	24
Nylon insulated 90° angle connectors					
7351	⅜"†	11	37	29	14
7352	⅜"†	13.5	37	29	14
7353	½"†	16	40	35	14
7354	¾"†	21	44	42	14
7355	1"†	29	56	47	21
7356	1¼†	36	70	58	21
7357	1½"	42	75	69	21
7358	2"	48	87	83	24

**All items shown on this page are suitable for use in hazardous location where general purpose equipment is specifically permitted by the NEC; Class I Div. 2, Class II, Div. 1 & 2; Class III, Div. 1 & 2, NEC 501-4(b); 502-4(a)(b); 503-3(a)(b).*
†UL Listed as grounding means under NEC 351-7.
UL Listed liquidtight. CSA Certified watertight.
UL File No. E-23018 CSA File No. 2884

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

ISO Metric Thread Liquidtight Fittings*

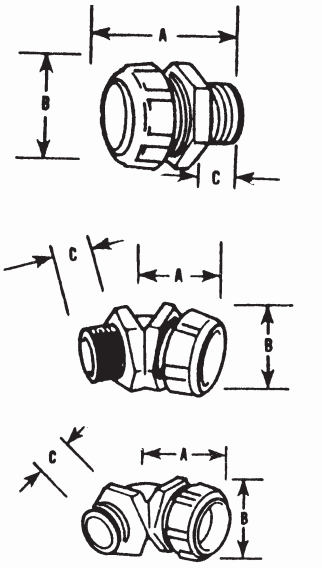
CAT. NO.	FLEXIBLE CONDUIT SIZE	METRIC ISO THREAD	A MM	B MM	C MM
Nylon insulated straight connectors					
9330	¼"	16	36	21	12
9331	¼"	20	36	21	12
9306	5/16"	16	36	26	12
9360	3⅜"	16	40	29	16
9361	⅜"	20	40	29	16
9362	½"	20	42	35	16
9363	¾"	25	45	42	16
9364	1"	32	54	47	23
Nylon insulated 45° angle connectors					
9340	⅜"	16	27	29	16
9341	⅜"	20	27	29	16
9342	½"	20	27	35	16
9343TB	¾"	25	31	42	16
9344	1"	32	34	47	23

CAT. NO.	FLEXIBLE CONDUIT SIZE	METRIC ISO THREAD	A MM	B MM	C MM
Nylon insulated 90° angle connectors					
9350	⅜"	16	35	29	16
9351	⅜"	20	35	29	16
9352TB	½"	20	39	35	16
9353TB	¾"	25	43	42	16
9354TB	1"	32	48	47	23

U.L. Listed Liquidtight. CSA certified watertight.

** All items shown on this page are suitable for use in hazardous location where general purpose equipment is specifically permitted by the NEC; Class I Div. 2, Class II, Div. 1 & 2; Class III, Div. 1 & 2, NEC 501-4(b); 502-4(a)(b); 503-3(a)(b).*

U.L. File No. E 23018. CSA File No. 2884



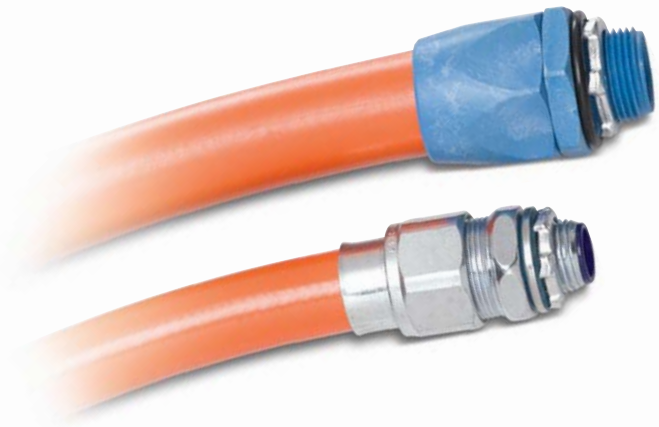
Fittings for Liquidtight flexible metal conduit with metric threads of ISO Form (BS-4568-SA BS 162).

Liquidtight Flexible Metal Conduit Fittings

Ideally suited for continuous flexing applications or vibration.

Type A Non-Metallic Flexible Conduit

- No metal core to fatigue from flexing or vibration
- Smooth, seamless inner core of flexible PVC that is bonded to a covering of flexible PVC. Between these layers is a woven nylon mesh molded for reinforcement
- Available in sizes from ⅜" to 2"
- Working Temperatures: -20˚ C to 60˚ C
- UL® Listed (conforms to UL Standard ANSI/UL 1660 Type A) UL file: E95745
- CSA Certified (conforms to CSA 22.2 No. 227.2 Type A)
- Meets NEC®, article 351, part "B" (ANSI/NFPA-70) for flexible, liquidtight non-metallic conduit



Liquidtight Conduit Connectors

CAT. NO.	SIZE	STD. PKG. QTY.
Type A Flexible, Non-metallic Conduit		
TYPEA38-250	⅜"	250/ft.
TYPEA50-200	½"	200/ft.
TYPEA75-175	¾"	175/ft.
TYPEA100-100	1"	100/ft.
TYPEA125-100	1¼"	100/ft.
TYPEA150-50	1½"	50/ft.
TYPEA200-50	2"	50/ft.

Aluminum mechanical adapter with internal threads to mate with NPT threaded fittings and MS type connectors.

NPT/MS Connector Adapters

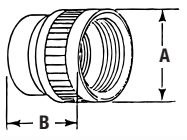


Fig. 1

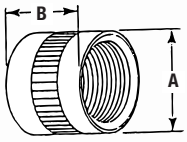


Fig. 2

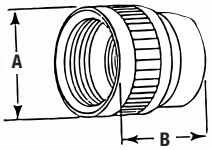


Fig. 3

CAT. NO.	N.P.T. THREAD	AN-MS CONNECTOR SHELL SIZE	THREAD SIZE	STD. PKG.	DIMENSIONS (IN.) A	FIG.	B
MSA05014	½"	14, 14S	¾"–20 UNEF-2B	10	1.000	1	1.175
MSA05016	½"	16, 16S	⅞"–20 UNEF-2B	10	1.000	2	1.175
MSA05018	½"	18	1"–20 UNEF-2B	10	1.125	3	1.175
MSA07516	¾"	16, 16S	⅞"–20 UNEF-2B	10	1.250	1	1.356
MSA07518	¾"	18	1"–20 UNEF-2B	10	1.250	1	1.300
MSA07520	¾"	20, 22	1⅜"–18 UNEF-2B	10	1.375	3	1.300
MSA10020	1"	20, 22	1⅜"–18 UNEF-2B	10	1.500	1	1.431
MSA10024	1"	24, 28	1⅞"–18 UNEF-2B	10	1.625	3	1.313
MSA10032	1"	32	1¾"–18 UNS-2B	10	2.000	3	1.576
MSA10036	1"	36	2"–18 UNS-2B	10	2.250	3	1.738

All items shown on this page are suitable for use in hazardous location where general purpose equipment is specifically permitted by the NEC; Class I Div. 2; Class II, Div. 1 & 2; Class III, Div. 1 & 2, NEC 501-4(b); 502-4(a)(b); 503-3(a)(b).

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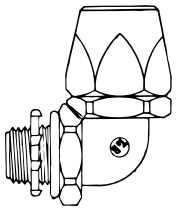
Liquidtight Flexible Metal Conduit Fittings

Liquidtight Flexible Non-Metallic Liquidtight Type A Conduit Connectors

Series 6302

Liquidtight Flexible Non-Metallic Conduit Connectors



Series 6322

Liquidtight Flexible Non-Metallic Conduit Connectors

Application

- To provide a liquidtight, dust-tight connection between flexible, non-metallic conduit and a box or an enclosure

Features

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

Standard Material

Body . . . . . Thermoplastic
Gland . . . . . Thermoplastic
O-Ring . . . . . Neoprene
Locknut . . . . . Steel (Case Hardened)

Standard Finish

Body, Gland & O-Ring . . . . . As Molded
Locknut . . . . . Electro Zinc

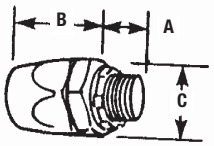
Range

Conduit Size . . . . . ½" thru 1¼"
Hub Size . . . . . ½" thru 1¼" N.P.T.

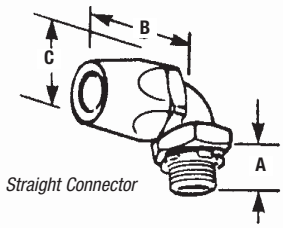
Designed especially for Type A all-plastic raceways used for dynamic machine tool applications!

Thermoplastic Fittings for Liquidtight Flexible Non-Metallic Conduit Type A

- Constructed of high-strength, chemical-resistant thermoplastic — even tougher than the raceway itself!
- Neoprene sealing ring, furnished with connector, provides a liquidtight seal for knockout applications



90° Angle Connector



Straight Connector

Corrosion-Resistant Applications

CAT. NO.	CONDUIT SIZE	A	B	C CROSS CORNERS
Straight Connector				
6302	½"	.60"	1.68"	1.48"
6303	¾"	.61"	1.85"	1.76"
6304	1"	.77"	1.89"	2.10"
6305	1¼"	.79"	2.30"	2.67"
90° Angle Connector				
6322	½"	.60"	1.56"	1.48"
6323	¾"	.61"	1.74"	1.76"
6324	1"	.77"	1.78"	2.10"
6325	1¼"	.79"	2.13"	2.67"

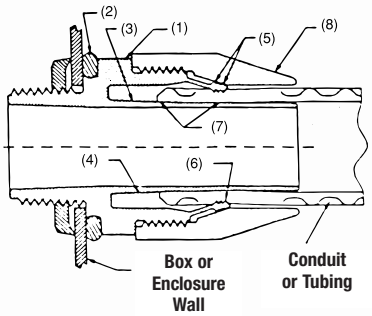
Meets Coast Guard CG293

UL File No. E 23018

XTRA FLEX® System —

Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit

Specification Sheet — Bullet® Liquidtight Fittings or Liquidtight Flexible Non-Metallic Conduit and Tubing



Suggested Specification:

Where liquidtight flexible non-metallic conduit (UL Type B) or liquidtight flexible non-metallic tubing is terminated to a box or enclosure, the non-metallic connectors used shall be able to be installed without disassembly and provide a positive installation criteria. In the installed condition, the connector must provide a seal meeting watertight requirements of NEMA Type 4 and Type 6 enclosures. The performance of connectors shall be unaffected by exposure to detergents, sanitizers, cutting fluids, wire pulling compounds and oil base industrial paints. The connector must also be capable of withstanding Marine environment and cold impact simulating a hammer blow. Installed connectors shall be of the elongated gland type as manufactured by Thomas & Betts LT38P series.

Application

A series of nonmetallic connectors designed to provide a liquidtight seal when terminating liquidtight nonmetallic conduit (UL Type B) or liquidtight nonmetallic tubing to a box or enclosure with knockout opening or a threaded hub.

Plastic Bullet® Liquidtight Fittings Features

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

Standard Material/Finish

- Body Gland — Weather stabilized thermoplastic (black)
- O-Ring — Nitrile (blue)
- Locknut — Steel/electro zinc plated
- Material Temperature Rating — thermoplastic -40° C to 105° C
- Material Flammability Rating: UL 94-V2

Listed/Certified by

UL (File# E23018);
CSA (File# LR52391)

Conforms to

- CSA 22.2 #227.2 & CSA 22.2 #227.3
- ANSI/U.L.514B-1988
- Watertight requirements of NEMA Type 4 and NEMA Type 6 enclosures
- Federal Standard H28 (NPT threads)
- Suitable for hazardous locations — Class I Div. 2; Class II Div. 1 & 2; Groups E,F, & G; Class III per N.E.C.; Article 501-4, 502-4 and 503-3
- NEMA 6P

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XTRA FLEX® System —

Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit

The BULLET® non-metallic liquidtight fitting — easy to use, built to take it!

- Outside surface has friction-reducing ridges
- Inner surface teeth bite into conduit or tubing to enhance clamping and sealing action
- Fitting ferrule designed to accept variations in conduit sizes and field conduit cuts
- Smooth ferrule profile reduces friction to ensure a tight conduit-to-fitting seal
- Friction-reducing ridges and teeth provide a true double seal and high pullout resistance
- Elongated gland nut offers additional strain relief for 90° pull and easy hand grip
- Rugged low-profile nonmetallic body and gland construction provides space savings
- Captivated sealing O-Ring features predetermined compression to provide a reliable seal at enclosure
- Steel locknut firmly secures fitting to box or enclosure

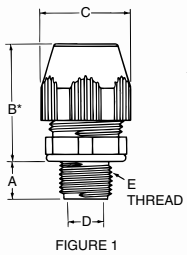

FIGURE 1
(STRAIGHT)

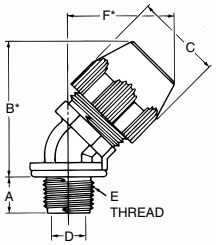

FIGURE 2
(45 DEGREE)

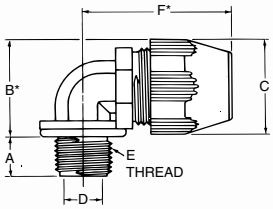

FIGURE 3
(90 DEGREE)

Plastic Bullet® Liquidtight Fittings for T&B LTC Non-Metallic Liquidtight Conduit Type B and T&B EFC Flexible Tubing

This engineering breakthrough meets the demand for a tough, reusable, non-metallic liquidtight fitting for use with XTRA FLEX® Type B conduit or flexible tubing. The BULLET® non-metallic fitting provides a reliable liquidtight seal that combines high pullout resistance and ease of installation.

Engineered to meet your needs.

The BULLET® non-metallic fitting meets your performance requirements when terminating Type B liquidtight non-metallic conduit or flexible non-metallic tubing to a box or enclosure with knockout opening or threaded hub. Fittings meet the watertight requirements for NEMA Type 4 and Type 6 enclosures and conform to UL514B and CSA No. 22.2 #227.2 specifications.

Ease of installation.

Installations can be performed quickly and easily because BULLET® liquidtight fittings can be installed without disassembly. BULLET® nonmetallic fittings are resistant to numerous caustics and solvents.

The BULLET® fitting is economical because it can be used over and over again without sacrificing the quality of the original seal. When used with the XTRA FLEX® raceway system, you can meet most machine or industrial requirements where liquidtight protection is needed.

Corrosion resistant. Built to take it.

The BULLET® liquidtight fitting is manufactured from weather-resistant thermoplastic materials and is suitable for indoor or outdoor corrosive environments. The BULLET® fitting is resistant to detergents, cleaners, oils, sanitizers, paints, cutting fluids and wire pulling compounds — just about any liquid usually found in industrial, plant or marine environments. It also surpasses industry standards for cold impact and simulated hammer blows.

CAT. NO.	FIG.	TRADE SIZE (IN.)	A ±.015 (.040) (IN.) (MM)	*B ±.035 (0.90) (IN.) (MM)	C ±.015 (0.40) ACROSS CORNERS (IN.) (MM)	MIN. THROAT DIA. D (IN.) (MM)	E THREAD NPT (IN.)	F* (IN.) (MM) APPROX.
LT38P	1		.570	1.595 (40.51)	1.354	.417		–
LT438P	2	⅜	(14.48)	2.012 (51.10)	(34.39)	(10.59)	½-14	1.534 (38.95)
LT938P	3			1.380 (35.05)				1.880 (47.75)
LT50P	1		.570	1.636 (41.55)	1.448	.550		–
LT450P	2	½	(14.48)	2.092 (53.14)	(36.78)	(13.97)	½-14	1.590 (40.39)
LT950P	3			1.489 (37.82)				1.986 (50.44)
LT75P	1		.582	1.757 (44.63)	1.740	.740		–
LT475P	2	¾	(14.78)	2.452 (62.28)	(44.20)	(18.80)	¾-14	1.821 (46.25)
LT975P	3			1.790 (45.47)				2.212 (56.)
LT100P	1		.726	1.923 (48.84)	2.068	.940		–
LT4100P	2	1	(18.44)	2.684 (68.17)	(52.53)	(23.88)	1-11½	2.034 (51.66)
LT9100P	3			2.104 (53.44)				2.508 (63.70)
LT125P	1		.750	2.164 (54.97)	2.494	1.257		–
LT4125P	2	1¼	(19.05)	3.264 (82.91)	(63.35)	(31.93)	1¼-11½	2.385 (60.58)
LT9125P	3			2.564 (65.13)				2.856 (72.54)
LT150P	1		.767	2.353 (59.77)	2.784	1.453		–
LT4150P	2	1½	(19.48)	3.605 (91.57)	(70.71)	(36.91)	1½-11½	2.604 (66.14)
LT9150P	3			2.854 (72.49)				3.144 (79.86)
LT200P	1		.794	2.605 (66.17)	3.362	1.883		–
LT4200P	2	2	(20.17)	4.210 (106.93)	(85.39)	(47.83)	2-8	3.050 (77.47)
LT9200P	3			3.432 (87.17)				3.675 (93.34)

* After Assembly
UL File No. E-23018
CSA File No. 52391

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XTRA FLEX® System —

Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit

Table 1 — Behavior of EMS20-1B.1 IN: Aqueous Solutions of Inorganic Salts at Room Temperature

SALT SOLUTIONS	VISUAL CHANGE	RATINGS*
10% Ammonium Chloride	Unchanged	F
10% Aluminum Chloride	Unchanged	F
10% Sodium Hypochlorite (0.1% Cl^2)	White coating after 18 days	G
10% Calcium Chloride	Unchanged	F
10% Chrome Alum	Unchanged	G
10% Ferric Chloride	Unchanged yellowing	P
5% Potassuim Dichromate	Unchanged yellowing	P
10% Potassium Nitrate	Unchanged	G
1% Potassium Permanganate	Decomposed	NR
10% Copper Sulfate	Unchanged	G
10% Magnesium Chloride	Unchanged	G
10% Magnanese Sulfate	Unchanged	G
10% Sodium Sulfate	Unchanged	G
10% Sodium Bisulfite	Unchanged	G
5% Mercuric Chloride	Swelled	P
10% Zinc Chloride	Unchanged	F

** These abbreviations are used for the ratings:*

E – Excellent *P – Poor*
G – Good *NR – Not Recommended*
F – Fair *S – Solvent*

Table 2 — Behavior of EMS20-1B.1 IN: Acids, Bases, Halogens, etc.

REAGENT	TEMP °F	VISUAL CHANGE	RATINGS*
Sulfuric Acid (Conc)	75	Dissolves	S, NR
Sulfuric Acid (Dilute)	75	Partially dissolves	P, NR
Hydrochloric Acid (Conc)	75	Dissolves	S, NR
Hydrochloric Acid (Dilute)	75	Partially dissolves	P, NR
Hydrochloric Acid (20-40%)	73	Etched after 1 sec.	P
Phosphoric Acid (Conc)	75	Dissolves	S, NR
Nitric Acid (Conc)	75	Dissolves	S, NR
Acetic Acid (Conc)	75	Partially Dissolves	P, NR
Acetic Acid (Conc)	200	Dissolves	S, NR
Acetic Acid (Dilute)	75	Etched	F, NR
Formic Acid (Conc)	75	Dissolves	S, NR
Formic Acid (Dilute)	75	Partially Dissolves	P, NR
Chlorine	–	Strong Attack	NR
Bromine	–	Strong Attack	NR
Phenol	75	Dissolves	S, NR
O-Chlorophenol	75	Dissolves	S, NR
m-Chlorophenol	75	Dissolves	S, NR
p-Chlorophenol	75	Dissolves	S, NR
Cresol	75	Dissolves	S, NR
Dimethylformamide	75	Strong Attack	NR
gamma-Butyrolactone	75	Strong Attack	NR
Xylenols	75	Dissolves	S, NR
Sodium Hydroxide (1%)	73	Unchanged	E
Sodium Hydroxide (5%)	73	Minimal effect	E
Sodium Hydroxide (5%)	158	Minimal effect	E
Sodium Hydroxide (10%)	73	Minimal effect	E
Sodium Hydroxide (10%)	158	Some “crazing” after 30 days	P
Potassium Hydroxide (5%)	73	Minimal effect	E
Potassium Hydroxide (5%)	158	Minimal effect	E
Potassium Hydroxide (10%)	73	Minimal effect	E
Potassium Hydroxide (10%)	158	Some “crazing” after 30 days	P
Hydrogen Peroxide (0.5%)	73	Unchanged	G
Hydrogen Peroxide (1%)	73	Brittle after 54 days	NR
Hydrogen Peroxide (3%)	73	Brittle after 54 days	NR
Hydrogen Peroxide (10%)	73	Degrades	NR
Hydrogen Peroxide (30%)	73	Degrades	NR

** These abbreviations are used for the ratings:*

E – Excellent *P – Poor*
G – Good *NR – Not Recommended*
F – Fair *S – Solvent*

Table 3 — Behavior of EMS20-1B.1 IN: Organic Solvents at Room Temperature

REAGENT	VISUAL CHANGE	RATINGS*
Benzyl Alcohol	Coarse surface after 2 days	NR
Butyl Alcohol	Temporary loss of stiffness	G
Ethyl Alcohol	Temporary loss of stiffness	G
Isopropyl Alcohol	Temporary loss of stiffness	G
Methyl Alcohol	Temporary loss of stiffness	G
Butyl Acetate	Temporary loss of stiffness	G
Ethyl Acetate	Unchanged	E
Methyl Acetate	Unchanged	E
Amyl Acetate	Unchanged	E
Ether (Diethyl)	Unchanged	E
Tetrahydrofuran	Unchanged	E
Acetone	Unchanged	E
Benzaldyhyde	Unchanged	E
Cyclohexanone	Unchanged	E
Dichlorethylene	Unchanged	E
Trichlorethylene	Temporary loss of stiffness	G
Perchlorethylene	Temporary loss of stiffness	G
Dichlormethane	Unchanged	E
Chloroform	Temporary loss of stiffness	G
Carbon Tetrachloride	Temporary loss of stiffness	G
Carbon Disulfide	Unchanged	E
Pyridine	Unchanged	E
Benzene	Unchanged	E
Monochlorbenzene	Unchanged	E
Toluene	Unchanged	E
Xylene	Unchanged	E
Kerosene	Unchanged	E
Turpentine	Unchanged	E
Tetralin	Unchanged	E
Decalin	Unchanged	E
Gasoline	Unchanged	E
Petroleum	Unchanged	E
Mineral Oil	Unchanged	E
Resorcinol	Dissolves	NR

** These abbreviations are used for the ratings:*

E – Excellent *P – Poor*
G – Good *NR – Not Recommended*
F – Fair *S – Solvent*

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XTRA FLEX® System —

Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit

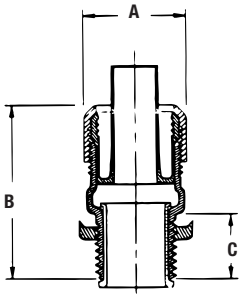

Figure 1

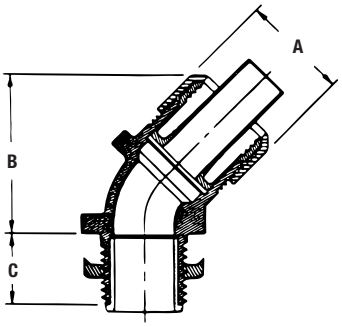

Figure 2

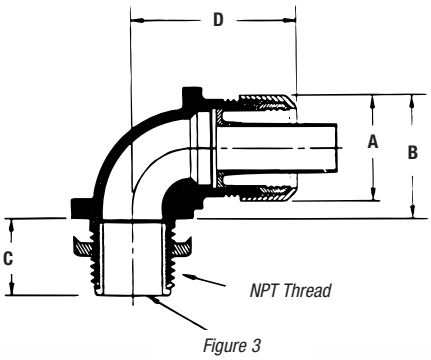

Figure 3

Metallic Bullet® Liquidtight Connectors for T&B LTC Non-Metallic Liquidtight Conduit Type B and T&B EFC Flexible Tubing

CAT. NO.	FIG.	TRADE SIZE (IN.)	A ±.030 (.80) (IN.) (MM)	*B ±.060 (1.50) (IN.) (MM)	C ±.045 (1.15) (IN.) (MM)	D (IN.) (MM)	THREAD NPT (IN.)
LT38M	1	—	1.156	1.500 (38.1)	0.562 (14.3)	—	
LT438M	2	⅜	(29.4)	1.962 (49.8)	0.562 (14.3)	—	½–14
LT938M	3	—	—	1.312 (33.3)	0.625 (15.9)	1.375 (34.9)	—
LT50M	1	—	1.375	1.562 (39.7)	0.562 (14.3)	—	—
LT450M	2	½	(34.9)	1.875 (47.6)	0.562 (14.3)	—	½–14
LT950M	3	—	—	1.437 (36.5)	0.625 (15.9)	1.562 (39.7)	
LT75M	1	—	1.656	1.625 (41.2)	0.625 (15.9)	—	—
LT475M	2	¾	(42.1)	2.125 (54.0)	0.562 (14.3)	—	¾–14
LT975M	3	—	—	1.750 (44.4)	0.625 (15.9)	1.750 (44.4)	
LT100M	1	—	1.875	2.062 (52.4)	0.750 (19.0)	—	—
LT4100M	2	1	(47.6)	2.250 (57.1)	0.812 (20.6)	—	1–11½
LT9100M	3	—	—	1.937 (49.2)	0.812 (20.6)	2.187 (55.5)	
LT125M	1	—	2.375	2.500 (63.5)	0.812 (20.6)	—	—
LT4125M	2	1¼	(60.3)	2.750 (69.8)	0.812 (20.6)	—	1¼–11½
LT9125M	3	—	—	2.500 (63.5)	0.812 (20.6)	2.750 (69.8)	
LT150M	1	—	2.750	2.687 (68.2)	0.812 (20.6)	—	—
LT4150M	2	1½	(69.8)	2.750 (69.8)	0.812 (20.6)	—	1½–11½
LT9150M	3	—	—	2.812 (71.4)	0.812 (20.6)	2.937 (74.6)	
LT200M	1	—	3.468	3.062 (77.8)	0.812 (20.6)	—	—
LT4200M	2	2	(88.1)	3.875 (98.4)	0.875 (22.2)	—	2–11½
LT9200M	3	—	—	3.500 (88.9)	0.875 (22.2)	3.437 (87.3)	—

** After Assembly*

UL File No. E-23018

CSA File No. 52391

Suggested Specification:

Where liquidtight flexible non-metallic conduit (UL Type B) or liquidtight flexible non-metallic tubing is terminated to a box or enclosure, the metallic connectors used shall be able to be installed without disassembly and provide a positive installation criteria. In the installed condition, the connector must provide a seal, meeting watertight requirements of NEMA Type 4 and Type 6 enclosures with conduit and NEMA Type 4 enclosures with tubing. Installed connectors shall be as manufactured by Thomas & Betts LT38M series.

Material: Body/Gland — Steel/Ml
Insert — Nylon

XTRA FLEX® System —

Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit Material — PVC

When you have a conduit application in a liquidtight environment, it's time to load up the T&B Bullet®.

Thomas & Betts introduces the ISO Metric Bullet® liquidtight fittings for use with the ⅜", ½" and ¾" XTRA FLEX® EFC and LTC non-metallic liquidtight conduit series.

The T&B Bullet® liquidtight fitting and EFC non-metallic conduit are suited for OEM applications as in the machine tool industry where environments include continuous motion, vibration and exposure to moisture, oil, dirt and dust.

The T&B Bullet® liquidtight fitting and LTC non-metallic conduit are also suitable for construction applications where ISO metric threading and liquidtight systems are installed.

The XTRA FLEX® system offers a lightweight, liquidtight flexible conduit solution for industrial applications. The XTRA FLEX® system enables fast, easy installation and high performance in demanding industrial applications.

ISO Metric Bullet® Liquidtight Fitting Non-Metallic

CAT. NO.	ANGLE OF FITTING	CONDUIT SIZE	KNOCKOUT SIZE	UNIT PACKAGE	STANDARD PACKAGE	UPC NUMBER
LT38P-ISO20	Straight	⅜"	½"	25	100	786210-66444
LT50P-ISO20	Straight	½"	½"	25	100	786210-66613
LT75P-ISO25	Straight	¾"	¾"	25	50	786210-66443
LT938P-ISO20	90°	⅜"	½"	25	50	786210-66612
LT950P-ISO20	90°	½"	½"	25	50	786210-66640
LT975M-ISO25	90°	¾"	¾"	10	50	786210-66611

**Testing: UL and CSA listed; NEMA 4, 6, 6P; IP 67 when used with LTC conduit or EFC tubing with installed T&B Bullet liquidtight fitting.*

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XTRA FLEX® System —

Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit Material — PVC

Maximum flexibility for tight applications!

Corrugated Flexible Non-Metallic Tubing

- OEM grade — UL Recognized
- PVC material
- Black color standard
- Extremely fast installation
- Liquidtight with specified fittings
- Good tensile strength provides excellent pullout protection
- Smooth inner diameter allows easy wire pulling
- Broad operating temperature range: 18° C to +60° C (-2° F to +140° F).
- Flammability Rating VW-1 (Vertical Wire) UL224

Recommended industrial applications

- Protection of fiber optic cable
- Installation of instrumentation and control cable
- Indoor/outdoor lighting
- Packaging equipment
- Marine and shipboard wiring
- Flexing component wiring protection on robots, graphic arts equipment, etc.

CAT. NO.	CONDUIT SIZE	I.D. (IN.) MIN.	I.D. (IN.) MAX.	O.D. (IN.) MIN.	O.D. (IN.) MAX.
EFC025*	¼"	.390	.405	.560	.575
EFC038	⅜"	.484	.504	.690	.710
EFC050	½"	.622	.642	.820	.840
EFC075	¾"	.820	.840	1.030	1.050
EFC100	1"	1.041	1.066	1.290	1.315
EFC125	1¼"	1.380	1.410	1.630	1.660
EFC150	1½"	1.575	1.600	1.865	1.900
EFC200	2"	2.020	2.045	2.340	2.375

CAT. NO. LTC –	AVAILABLE COLORS COLOR OF CONDUIT
W/O SUFFIX	Black
-1	Orange
-2	Blue

* Not CSA Certified.
Underwriters Recognized
UL File No. 96548

CSA File No. 067241
See technical data next page.
Use with Bullet® Liquidtight Fittings.

XTRA FLEX® System —

Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit Material — PVC

NEW!

Now available in reels.

XTRA FLEX® Conduit

The XTRA FLEX® system offers a lightweight, liquidtight flexible conduit solution for demanding applications. The XTRA FLEX® system ensures fast, easy installations and long-lasting, high performance in a variety of environments.

Now, XTRA FLEX® Conduit is available on reels. Large users can save space and reduce waste, while taking advantage of the convenience of stocking bulk in lengths. Utilizing our new coupling design to connect 100-ft. lengths, Thomas & Betts now offers reel lengths up to 1,000 feet.

- Fast installation — even in tight, cramped spaces
- Smooth inner diameter enables easy wire pulling
- Smooth outer jacket — approved for outdoor use, sunlight resistant and oil resistant
- Tested to CSA and UL requirements
- Lightweight and liquidtight
- Marked at 1-foot intervals for fast, easy measuring

Specifications

- Material: PVC
- Colors Available: Black, Gray
- Temp. Range: -18° C to +105° C (-2° F to +221° F) Black
  -18° C to +80° C (-2° F to +176° F) Gray
- Flammability Rating: UL 1660
- Listings: UL Listed, CSA Certified

Please contact your Thomas & Betts sales representative regarding custom colors and combinations.

XTRA FLEX® Liquidtight Conduit/Reel Lengths

CAT. NO.	SIZE	DESCRIPTION	MIN. I.D.	MAX. I.D	MIN. O.D	MAX. O.D.	REEL LENGTH	MIN. ORDER
LTC038GY-500	⅜"	Gray Type B LT Conduit	.484"	.504"	.690"	.710"	500 ft.	1,500
LTC050GY-500	½"	Gray Type B LT Conduit	.622"	.642"	.820"	.840"	500 ft.	1,500
LTC050-500	½"	Black Type B LT Conduit	.622"	.642"	.820"	.840"	500 ft.	Stock
LTC050GY-1000	½"	Gray Type B LT Conduit	.622"	.642"	.820"	.840"	1,000 ft.	2,000
LTC100GY-500	1"	Gray Type B LT Conduit	1.041"	1.066"	1.290"	1.315"	500 ft.	1,500
LTC100-500	1"	Black Type B LT Conduit	1.041"	1.066"	1.290"	1.315"	500 ft.	1,500

UL Listed, UL File No. 95745

CSA Certified, CSA File No. LL 80349

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XTRA FLEX® System —

Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit Material — PVC

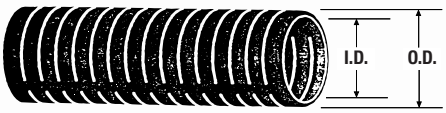
Smooth, sunlight- and oil-resistant outer jacket, approved for outdoor use!

Smooth Liquidtight Non-Metallic Conduit Type B

- Industrial grade — UL Listed/CSA Certified
- PVC material
- Liquidtight non-metallic conduit Type B
- Black color standard
- Fast installation — even in tight, cramped spaces
- Smooth inner diameter enables easy wire pulling
- Tested to CSA and UL requirements
- Lightweight and liquidtight
- Temperature range of -18° C to +105° C (-2° F to +221° F)
- UL1660 flammability rating
- Marked at 1-ft. intervals for fast, easy measuring and cutting

Recommended industrial applications

- Machine tools
- Motor hookups
- Food processing equipment
- Extensions from wireways
- Sensor and microswitch wiring in control consoles



Industrial Grade

CAT. NO.	CONDUIT SIZE	I.D. (IN.) MIN.	I.D. (IN.) MAX.	O.D. (IN.) MIN.	O.D. (IN.) MAX.
LTC038	⅜"	.484	.504	.690	.710
LTC050	½"	.622	.642	.820	.840
LTC075	¾"	.820	.840	1.030	1.050
LTC100	1"	1.041	1.066	1.290	1.315
LTC125	1¼"	1.380	1.410	1.630	1.660
LTC150	1½"	1.575	1.600	1.865	1.900
LTC200	2"	2.020	2.045	2.340	2.375

Commercial Grade

CAT. NO.	CONDUIT SIZE	I.D. (IN.) MIN.	I.D. (IN.) MAX.	O.D. (IN.) MIN.	O.D. (IN.) MAX.
LTC038GY	⅜"	.484	.504	.690	.710
LTC050GY	½"	.622	.642	.820	.840
LTC075GY	¾"	.820	.840	1.030	1.050
LTC100GY	1"	1.041	1.066	1.290	1.315
LTC125GY	1¼"	1.380	1.410	1.630	1.660
LTC150GY	1½"	1.575	1.600	1.865	1.900
LTC200GY	2"	2.020	2.045	2.340	2.375

Rated at 600V

XTRA FLEX® Type B suitable for use in hazardous location (for LTC Series only) where general purpose equipment is specifically permitted by the NEC; Class I Div. 2; Class II, Div. 1 & 2; Class III, Div. 1 & 2, NEC 501-4(b); 502-4(a)(b); 503-3(a)(b).

UL Listed, UL File No. E95745

CSA Certified, CSA File No. LL80349

See technical data below.

Use with Bullet® Liquidtight Fittings.

XTRA FLEX® Conduit and Tubing Technical Data*

LTFNMC = Liquidtight flexible non-metallic conduit
LTFNMT = Liquidtight flexible non-metallic tubing

XTRA FLEX® CONDUIT & TUBING	STYLE	COLOR	SIZE RANGE	UL TEMP RATING	CSA TEMP RATING	VOLTAGE RATING	UL OIL RESISTANT	UL OUTDOOR	UL DIRECT BURIAL
LTC038 Series	UL Type B LTFNMC	Black Black	⅜"–2"	105° C Dry 60° C Wet 70° C Oil	75° C–18° C —	600V	Yes	Yes	Yes
LTC038-1, -2 Series	UL Type B LTFNMC	Orange, Blue	½"–1"	105° C Dry 60° C Wet 70° C Oil	— —	600V	Yes	No	Yes
LTC038GY Series	UL Type B LTFNMC	Gray	⅜"–2"	80° C Dry 60° C Wet 70° C Oil	— —	600V	Yes	Yes	Yes
EFC025 Series**	LTFNMT	Black	¼"–2"	105° C	75°C-18 C	300V	Yes	Yes	No
EFC025-1, -2** Series	LTFNMT	Orange, Blue	½"–1"	105° C	—	300V	Yes	No	No

** For a complete test report, contact Customer Service.*

*** UL Component Recognized*

LTC – CAT. NO.	AVAILABLE COLORS: COLOR OF CONDUIT	AVAILABLE COLORS: COLOR OF MARKING
W/O SUFFIX	Black	Orange
-1	Orange	Black
-2	Blue	Black

XTRA FLEX® System —
Conduit, Tubing, Fittings for Non-Metallic Liquidtight Conduit Material — PVC

XTRA FLEX® Non-Metallic Conduit Type B and Flexible Tubing

A = SATISFACTORY CHEMICAL		B = BE EXPECTED TO CHANGE CHEMICAL		C = NOT RECOMMENDED CHEMICAL	
Acetate Solvents	C	Cottonseed Oil	B	Lubricating Oils	A
Acetic Acid (10%)	A	Creosote	C	Magnesium Chloride	A
Acetic Acid (Glacial)	B	Cresol	A	Magnesium Hydroxide	A
Acetone	C	Cresylic Acid	C	Magnesium Sulphate	A
Acrylonitrile	A	Cyclohexane	A	Malic Acid	A
Adipic Acid	A	Cyclohexanone	C	Methyl Acetate	C
Alcohol Butyl	A	DDT Weed Killer	A	Methyl Bromide	C
Alcohol Ethyl	A	Detergent Synthetic	A	Methyl Ethyl Ketone	C
Alcohol Isopropyl	A	Developers Photographic	A	Methylene Chloride	C
Alcohol Methyl	A	Dextrin	A	Mineral Oils	A
Aluminum Acetate	A	Dextrose	A	Monochlorobenzene	C
Aluminum Chloride	A	Dibutyle Phthalate	C	Naphtha	B
Aluminum Hydroxide	A	Dichlorobenzene	C	Naphthalene	C
Aluminum Sulfate	A	Diesel Oil	B	Nitric Acid (10%)	A
Aliyl Chloride	C	Diethylene Glycol	A	Nitric Acid (40%)	A
Ammonia (0.88S.G.Aqueous)	A	Diethyl Ether	C	Nitric Acid (70%)	C
Ammonia (Dry Gas)	A	Di-isodecyl Phthalate	C	Nitrobenzene	C
Ammonia (Liquid)	C	Dioctyle Phthalate	C	Nitrogen Fertilizers	A
Ammonium Chloride	A	Emulsifiers	A	Oleic Acid	A
Ammonium Hydroxide	A	Emulsions Photographic	A	Oxalic Acid	A
Animal Oils	A	Ethyl Acetate	C	Palmitic Acid	A
Amyl Acetate	C	Ethylene Dichloride	C	Paraffin	A
Aniline Oils	B	Ethylene Glycol	A	Pentane	B
Aromatic Hydrocarbons	C	Fatty Acid	A	Perchloroethylene	C
Asphalt	C	Ferric Chloride	A	Phenol	B
ASTM Fuel A	B	Ferric Sulphate	A	Phosphoric Acid	A
ASTM Fuel B	C	Ferrous Chloride	A	Pitch	A
ASTM #1 Oil	A	Ferrous Sulphate	A	Potassium Hydroxide	A
ASTM #3 Oil	B	Fixing Solution, Photographic	A	Propane	A
Barium Chloride	A	Fluorine	C	Sea Water	A
Barium Hydroxide	A	Formaldehyde (40%)	C	Sodium Hydroxide (10%)	A
Barium Sulfide	A	Formic Acid (40%)	A	Sodium Hydroxide (50%)	A
Benzene	C	Formic Acid (50%)	B	Sodium Cyanide	A
Benzine	B	Formic Acid (100%)	C	Soybean Oil	A
Bordeaux Mixture	A	Fuel Oil	B	Stearic Acid	A
Borax	A	Glacial Acetic Acid	B	Styrene	C
Boric Acid	A	Glucose	A	Sulphur Dioxide (Dry)	A
Brine	A	Glycerine	A	Sulphur Dioxide (Moist)	B
Bromine Traces	C	Grape Sugar	A	Sulphur Dioxide (Liquid)	C
Butyl Acetate	C	Grease	A	Sulphuric Acid (45%)	A
Calcium Hydroxide	A	Heptane	B	Sulphuric Acid (60%)	B
Calcium Hypochlorite	A	Hexane	B	Sulphuric Acid (98%)	C
Carbonic Acid	B	Hydrobromic Acid	A	Sulphurous Acid (30%)	A
Carbon Dioxide	A	Hydrochloric Acid (10%)	A	Tannic Acid	A
Carbon Disulphite	C	Hydrochloric Acid (40%)	A	Tartaric Acid	A
Carbon Monoxide	A	Hydrofluoric Acid (10%)	A	Tetrahydrofuran	C
Carbon Tetrachloride	C	Hydrofluoric Acid (40%)	B	Toluene	C
Casein	A	Hydrofluoboric Acid	A	Trichlorethylene	C
Chlorine (Dry)	A	Hydrofluosilicic Acid	A	Triethanolamine	A
Chlorine (Wet Gas)	B	Hydrogen Peroxide	A	Tricresyl Phosphate	C
Chlorine (Water)	C	Hydrogen Sulphide	A	Turpentine	B
Chlorobenzene	C	Iso-octan	A	Urea	A
Chlorinated Hydrocarbons	C	Isopropyl Acetate	C	Vinegar	A
Chloroform	C	Kerosene	B	Vinyl Acetate	C
Chromic Acid	A	Ketones	C	Vinyl Chloride	C
Citric Acid	A	Lactic Acid (10%)	A	Water	A
Coal Tar	C	Lactic Acid (100%)	C	Xylene	C
Copper Chloride	A	Lacquer Solvents	B	Zinc Chloride	A
Copper Nitrate	A	Linseed Oil	A	Zinc Sulphate	A
Copper Sulphate	A				

NOTE: *These chemical resistance ratings are based upon information supplied by the raw material manufacturers. It is intended as a general guideline only. To determine specific suitability, samples should be tested by user under actual conditions. Operating Condition: 70° F.*

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Flexible Cords and Cable Fittings

Flexible Cord Connectors

The Ranger® Series Cord Connector Fittings

Our Ranger Liquidtight fittings are the only connectors able to take a .250 inch cable range.

These unique connectors feature:

- Connectors that take twice the cable range of ordinary strain relief connectors
- Smaller overall size that makes it easy to fit into tight spaces
- Gland nut design that restricts cable bending
- Choice of aluminum, steel and non-metallic materials
- Straight, 45° and 90° designs

Liquidtight Flexible Cord and Power Cable Fittings

We also offer liquidtight fittings designed to handle the unique connection demands of flexible cords and power cable applications, where exceptional mechanical strain relief is needed in addition to a dependable seal against dust, oil and other liquids.

The design of our flexible cord and power cable fittings is ideal for installations such as robot manufacturers, packaging equipment, machine tool building and other industrial OEM and MRO applications.

The advantages these fittings offer include:

- Neoprene bushing to make liquidtight installations by applying pressure against the cable for the full length of the bushing
- CSA certified watertight
- UL listed for liquidtight strain relief and as an outlet bushing
- Metal and plastic assemblies capable of accepting a wide range of cords
- Black Beauty® non-metallic cord connector offers the convenience of tool-free installation, with a segmented chuck for high mechanical pullout performance, and neoprene bushings for a secure, liquidtight installation.

Flexible Cords and Cable Fittings

Whatever the application. Whatever the size. Thomas & Betts is your connection to tough, versatile cord and cable fittings.

Thomas & Betts offers a complete line of rugged, reliable cord and cable fittings. All fittings are produced to the highest standards, combining innovative design and precision manufacturing methods to provide the products you need for your specific applications. Combining proven performance, installation advantages and availability of ranges, T&B is also your connection to lower installed costs for the life of your cord and cable requirements.

Use this guide to help you specify the fitting you need for your cord and cable requirements.

Cord and Cable Requirements

CORD AND CABLE TYPE	T&B FITTING
S, SO, SV, ST, STD, SJ,	Ranger® 2920NM# Series, 2920# Series
SJO, SJT, SJTO, SVO	Liquidtight Strain Relief 2500# Series
TC	Tray Cable TC Series
JMC, MC	STAR TECK EXTREME® STE/STEX Series
S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVO	Wire Mesh Grips WMG-PC Series for Portable Cord

Considerations for Selection

- Selection of the proper device or fitting involves consideration of the type of cable to be installed and the environment that will surround the cable installation.
- A proper matching of the cable and its fitting is necessary to prevent physical damage to the cable when installed.

Cord and Cable Descriptions

Type TC power and control tray cable is a factory assembly of two or more insulated conductors, with or without associated bare or covered grounding conductors under a nonmetallic sheath, for installation in cable trays, in raceways or where supported by a messenger wire.

Type MC metal clad cable is a factory assembly of one or more insulated circuit conductors with or without optical-fiber members enclosed in a metallic sheath of interlocking tape, or a smooth or corrugated tube.

Type SJ, tradename is Junior Hard Service Cord. The outer covering is Thermoset and it is a pendant or portable cord used in damp locations for hard usage.

Type SJO, tradename is Junior Hard Service Cord. The outer covering is oil-resistant Thermoset.

Type SJT, tradename is Junior Hard Service Cord. The outer covering is Thermoplastic.

Type SJTO, tradename is Junior Hard Service Cord. The outer covering is oil resistant Thermoplastic.

Type SO, tradename is Hard Service Cord. The outer covering is oil-resistant Thermoset and it is a pendant or portable cord used in damp locations for extra hard usage.

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Flexible Cords and Cable Fittings

2920 Series

2920AL Series

2516 Series

Liquidtight Flexible Cord and Cable Connectors

Application

- A liquidtight connector to connect flexible cord or cable to an enclosure and provide adequate strain relief

Features

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

Standard Material

Gland, Body. . . . . Steel/Malleable Iron/Zinc Die Cast
Retaining Ring . . . . . Thermoplastic/Stainless Steel
Bushing. . . . . Neoprene
O-Ring . . . . . Buna N

Standard Finish

Electro Zinc Plated & Chromate Coated

Range

2520 Series, straight . . . . . 125" outside diameter to 3.200" outside diameter Cord or Cable
2200 Series, 45° . . . . 125" outside diameter to 1.485" outside diameter Cord or Cable
2267 Series, 90° . . . . 125" outside diameter to 1.875" outside diameter Cord or Cable
Cord/Cable Type . . . . . S, SO, SV, ST, STO, SJ, SJO, SJT, SJTO, SVO & SVT

Listed/Certified by

UL . . . . . (UL File No. E-13938)
CSA LR-589, LR-4484

Conforms to ANSI C33.84, NFPA 70-1978 (ANSI)
UL 514CSA. 22.2 No. 18.

Suggested Specifications for Flexible Cord and Cable Fittings

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

CAT. NO	SIZE	MIN.	MAX.	SVO, SV, SVT	SJ, SJO, SJT, SJTO			S, SO, ST, STO						
				#18	#18	#16	#14	#18	#16	#14	#12	#10	#8	#6
2 Conductor														
2920	½"	0.125	0.375	X	X	X	X							
2921	½"	0.310	0.560			X	X	X	X	X				
2922	½"	0.500	0.750				X	X	X	X	X	X		
2930	¾"	0.125	0.375	X	X	X	X							
2931	¾"	0.310	0.560			X	X	X	X	X				
2932	¾"	0.500	0.750				X	X	X	X	X	X		
2940	1"	0.310	0.560			X	X	X	X	X				
2941	1"	0.500	0.750				X	X	X	X	X	X		
2942	1"	0.700	0.950				X						X	X
3 Conductor														
2920	½"	0.125	0.375	X	X	X								
2921	½"	0.310	0.560		X	X	X	X	X					
2922	½"	0.500	0.750							X	X	X		
2930	¾"	0.125	0.375	X	X	X								
2931	¾"	0.310	0.560		X	X	X	X	X					
2932	¾"	0.500	0.750							X	X	X		
2940	1"	0.310	0.560			X	X	X	X					
2941	1"	0.500	0.750		X					X	X	X		
2942	1"	0.700	0.950									X	X	
4 Conductor														
2920	½"	0.125	0.375	X										
2921	½"	0.310	0.560		X	X	X	X	X					
2922	½"	0.500	0.750							X	X			
2930	¾"	0.125	0.375	X										
2931	¾"	0.310	0.560		X	X	X	X	X					
2932	¾"	0.500	0.750							X	X			
2940	1"	0.310	0.560		X	X	X	X	X					
2941	1"	0.500	0.750							X	X			
2942	1"	0.700	0.950								X	X		

Flexible Cords and Cable Fittings

The Ranger® Series of Steel Liquidtight Cord Connectors

The Ranger Series Steel Liquidtight Connector takes twice the cable range of most ordinary strain relief connectors. T&B's Ranger Connectors enable you to reduce your inventory and save time with one connector that can do the work of two.

Application

- Provide means for passing a cord cable into an enclosure, through a bulkhead or into a rigid conduit
- Form a mechanical grip and water and/or oil-resistant seal for cord
- Form a non-slip connection or termination for flexible cord

Cord & Cable Type

- S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVD

Features

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

Materials

Body: Steel-2920 series, Malleable Iron-4920 & 4960 series
Gland Nut, Grip: Steel-all series
Bushing: Rubber

Environment Classification

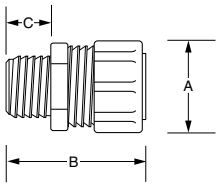
- Ordinary locations
- Wet or dry locations

Range

Cord Range: .125" to .950"

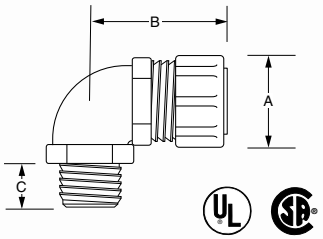
Hub Size Range: ½" to 1"

Steel Liquidtight Strain Relief Connectors — Straight



CAT. NO.	HUB SIZE	THROAT DIA.	CORD RANGE	DIMENSIONS (IN.) A	B	C
2920	½"	47/64"	.125-.375	1⅛	1¾	⅝
2921	½"	47/64"	.310-.560	1⅛	1¾	⅝
2922	½"	47/64"	.500-.750	1⅜	1¾	⅝
2930	¾"	13/16"	.125-.375	1⅜	1 25/32	⅝
2931	¾"	13/16"	.310-.560	1⅜	1 25/32	⅝
2932	¾"	13/16"	.500-.750	1⅜	1 25/32	⅝
2940	1"	1 1/16"	.310-.560	1⅜	1¾	1¾
2941	1"	1 1/16"	.500-.750	1⅜	1¾	1¾
2942	1"	31/32"	.700-.950	1⅜	1⅞	31/32

Steel Liquidtight Strain Relief Connectors — 90° Angle

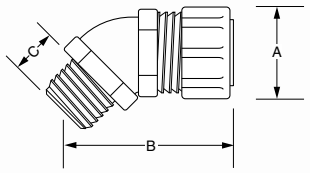


CAT. NO.	HUB SIZE	THROAT DIA.	CORD RANGE	DIMENSIONS (IN.) A	B	C
4960	½"	19/32	.125-.375	1⅛	1¾	⅝
4961	½"	19/32	.310-.560	1⅛	1¾	⅝
4962	½"	19/32	.500-.750	1⅜	1 23/64	⅝
4970	¾"	25/32	.125-.375	1⅜	1 25/32	1 1/16
4971	¾"	25/32	.310-.560	1⅜	1 25/32	1 1/16
4972	¾"	25/32	.500-.750	1⅜	1 25/32	1 1/16
4980	1"	1	.310-.560	1⅜	2 1/32	1 3/16

All items shown on this page are suitable for use in hazardous locations where general purpose equipment is specifically permitted by the NEC. NEC 501-4(b).

U.L. File No. E-13938 *CSA File No. 52391*

Steel Liquidtight Strain Relief Connectors — 45° Angle



CAT. NO.	HUB SIZE	THROAT DIA.	CORD RANGE	DIMENSIONS (IN.) A	B	C
4920	½"	37/64	.125-.375	1⅛	1 5/16	47/64
4921	½"	37/64	.310-.560	1⅛	1 5/16	47/64
4922	½"	37/64	.500-.750	1⅜	1 7/16	47/64
4930	¾"	25/32	.125-.375	1⅜	1 7/16	⅝
4931	¾"	25/32	.310-.560	1⅜	1 7/16	⅝
4932	¾"	25/32	.500-.750	1⅜	1 7/16	⅝
4940	1"	15/16	.310-.560	1⅜	1w	25/32

For wire mesh grips refer to pages A-111 & A-141.

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The Ranger® Series of Non-Metallic Liquidtight Cord Connectors

The Ranger Series Non-Metallic Liquidtight Cord Connector takes twice the cable range of most ordinary strain relief connectors. T&B's Ranger Connectors enable you to reduce your inventory and save time with one connector that can do the work of two. The sturdy nylon material adds corrosion resistance to your installation.

Application

- Provide means for passing a cord into an enclosure or through a bulkhead or into a rigid conduit
- Form a mechanical grip and water and/or oil-resistant seal for cord
- Form a nonslip connection or termination for flexible cord, cable (armored or unarmored)

Cord & Cable Type

- S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVD

Features

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

Materials

Weather stabilized nylon, temperature rated -34° C to 105° C

Bushing: Rubber

Environment Classification

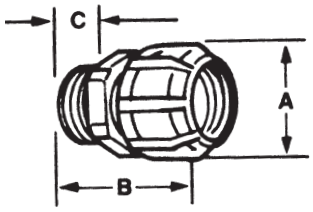
- Ordinary locations
- Wet or dry locations

Range

Cord Range: Straight —.125" to .950"
90° —.125" to .750"

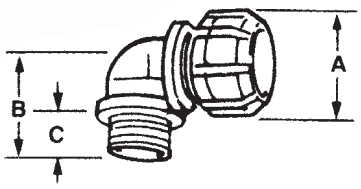
Hub Size Range: Straight — ½" to 1"
90° — ½" to ¾"

Non-Metallic Liquidtight Strain Relief Connector — Straight



CAT. NO.	TRADE OR HUB SIZE	THROAT DIA.	CORD RANGE	DIMENSIONS (IN.) A	B	C
2920NM	½"	.55	.125-.375	1 7/32	2 1/8	5/8
2921NM	½"	.55	.310-.560	1 7/32	2 1/8	5/8
2922NM	½"	.55	.500-.750	1 13/32	2 5/32	5/8
2930NM	¾"	.79	.125-.375	1 13/32	2 3/16	5/8
2931NM	¾"	.79	.310-.560	1 13/32	2 3/16	5/8
2932NM	¾"	.79	.500-.750	1 13/32	2 3/16	5/8
2940NM	1"	.98	.310-.560	1 13/32	2 11/32	25/32
2941NM	1"	.98	.500-.750	1 13/32	2 11/32	25/32
2942NM	1"	.98	.700-.950	1 43/64	2 3/8	25/32

Non-Metallic Liquidtight Strain Relief Connector — 90° Elbow



CAT. NO.	TRADE OR HUB SIZE	THROAT DIA.	CORD RANGE	DIMENSIONS (IN.) A	B	C
4960NM	½"	.55	.125-.375	1 7/32	1 1/4	5/8
4961NM	½"	.55	.310-.560	1 7/32	1 1/4	5/8
4970NM	¾"	.79	.125-.375	1 13/32	1 3/8	5/8
4971NM	¾"	.79	.310-.560	1 13/32	1 3/8	5/8
4972NM	¾"	.79	.500-.750	1 13/32	1 3/8	5/8

UL File No. E 13938

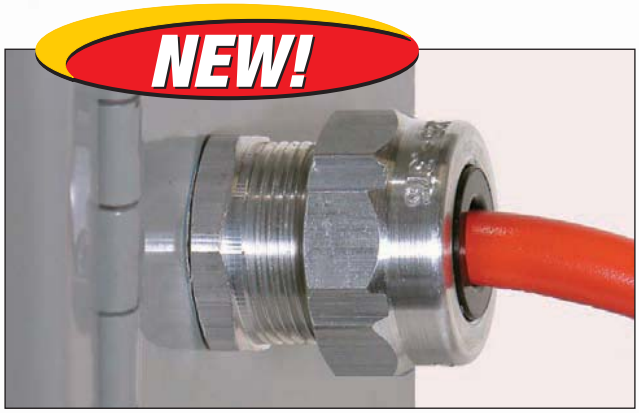
CSA File No. 52391

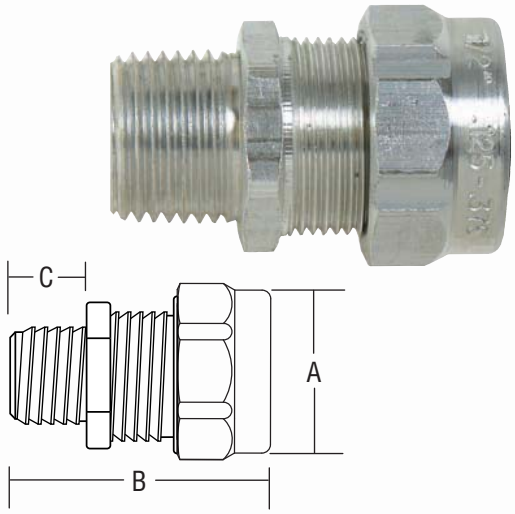
Meets Coast Guard CG293

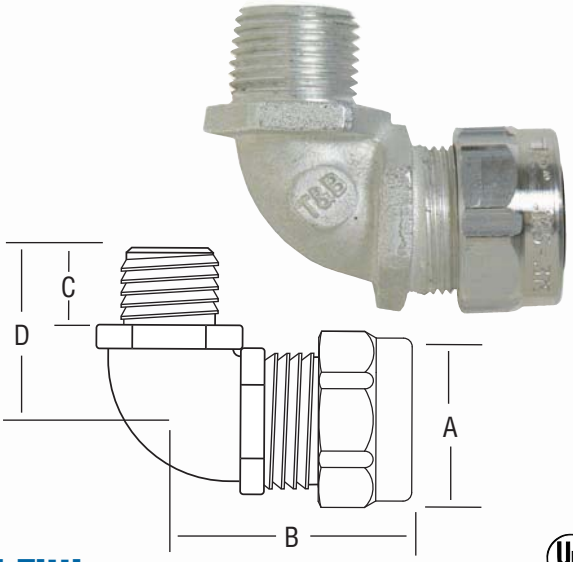
Flexible Cords and Cable Fittings

Aluminum Ranger® Cord Fitting

- Available in straight or 90° designs
- Designed to accept a wide range of cables, offering nine fittings that cover cord ranges from .125" through .950"
- Slotted design gland nut to accommodate securing in tight spaces
- Installer can simply use screwdriver to get into the hard-to-reach area and secure the gland nut
- Marked with cable ranges and conduit hub sizes







T&B® Fittings Aluminum Ranger® Cord Fitting

CAT. NO.	HUB SIZE	CORD RANGE	DIMENSIONS A	B	C	D	STD. PKG. QTY.	WT. PER 100
Straight								
2920AL	½"	.125-.375	1⅛	1¾	⅝	—	25	8.50/C
2921AL	½"	.310-.560	1⅛	1¾	⅝	—	25	8.05/C
2922AL	½"	.500-.750	1 5/16	1¾	⅝	—	25	9.95/C
2930AL	¾"	.125-.375	1 5/16	1 25/32	⅜	—	10	12.30/C
2931AL	¾"	.310-.560	1 5/16	1 25/32	¾	—	10	11.90/C
2932AL	¾"	.500-.750	1 5/16	1 25/32	¾	—	10	11.50/C
2940AL	1"	.310-.560	1 5/16	1¾	1 1/16	—	10	18.00/C
2941AL	1"	.500-.750	1 5/16	1¾	1 1/16	—	10	16.00/C
2942AL	1"	.700-.950	1 9/16	1⅞	3/32	—	10	16.70/C
90° Elbow								
4960AL	½"	.125-.375	1⅛	1¾	⅝	1 5/16	50	23.60/C
4961AL	½"	.360-.560	1⅛	1¾	⅝	1 5/16	50	11.60/C
4962AL	½"	.500-.750	1 5/16	1 23/64	⅝	1⅜	50	29.40/C
4970AL	¾"	.125-.375	1 5/16	1 25/32	1 1/16	1 15/32	50	17.20/C
4971AL	¾"	.310-.560	1 5/16	1 25/32	1 1/16	1 15/32	50	30.00/C
4972AL	¾"	.500-.750	1 5/16	1 25/32	1 1/16	1 15/32	50	33.09/C
4980AL	1"	.310-.560	1 5/16	2 1/32	1 3/16	1¾	25	21.50/C
4981AL	1"	.500-.750	1 5/16	2 1/32	1 3/16	1¾	25	22.36/C
4982AL	1"	.700-.950	1 9/16	2 11/16	1 3/16	2	25	18.20/C

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Aluminum Liquidtight Strain Relief Connectors — 90° Elbow

CAT. NO.	TRADE OR HUB SIZE	THROAT DIA.	CORD RANGE	DIMENSIONS (IN.) A	B	C	D
4960AL	½"	19/32"	.125-.375	1⅛	1¾	⅝	1 5/16
4961AL	½"	19/32"	.360-.560	1⅛	1¾	⅝	1 5/16
4962AL*	½"	19/32"	.500-.750	1 5/16	1 23/64	⅝	1⅜
4970AL	¾"	25/32"	.125-.375"	1 5/16	1 25/32	11/16	1 15/32
4971AL	¾"	25/32"	.310-.560	1 5/16	1 25/32	11/16	1 15/32
4972AL	¾"	25/32"	.500-.750	1 5/16	1 25/32	11/16	1 15/32
4980AL	1"	1"	.310-.560	1 5/16	2 1/32	13/16	1¾
4981AL	1"	1"	.500-.750	1 5/16	2 1/32	13/16	1¾
4982AL	1"	1"	.700-.950	1I	2 11/16	13/16	2

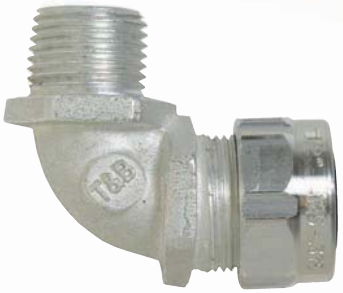
** It may be necessary to remove sufficient outer covering of cable to permit conductors to pass through connector body.*

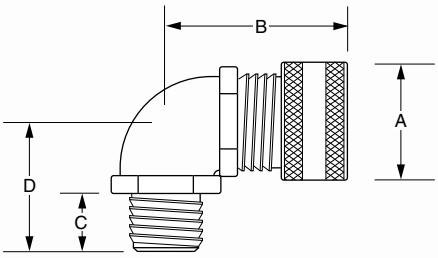
All items shown on this page are suitable for use in hazardous locations where general purpose equipment is specifically permitted by the NEC. NEC 501-4(b).

UL File No. E-13938

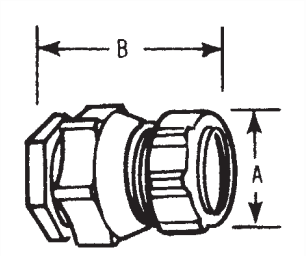
CSA File No. 52391

For wire mesh grips, refer to pages A-111 and A-141.





CHASE® Liquidtight Cord Connectors



CAT. NO.	CABLE SIZE RANGE SIZE (IN.)	THROAT DIA.	CORD RANGE	DIMENSIONS (IN.) A	B
2631	(.125-.250)	½"	9/16"	1 1/16	1⅜
2632	(.250-.375)	½"	9/16"	1 1/16	1⅜
2633	(.375-.500)	½"	9/16"	1 1/16	1⅜
2634	(.450-.560)	½"	9/16"	1 1/16	1⅜
2637	(.125-.250)	¾"	25/32"	1 5/16	1¾
2638	(.250-.375)	¾"	25/32"	1 5/16	1¾
2639	(.375-.500)	¾"	25/32"	1 5/16	1¾
2640	(.500-.625)	¾"	25/32"	1 5/16	1¾
2641	(.625-.750)	¾"	25/32"	1 5/16	1¾
2646	(.500-.625)	1"	1"	1⅝	1 13/16
2647	(.625-.750)	1"	1"	1⅝	1 13/16
2648	(.750-.880)	1"	1"	1⅝	1 13/16

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

Complete with O-Ring seal and nylon insulated throat and neoprene bushing.

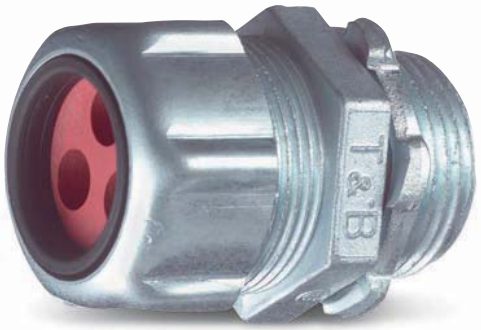
UL Listed as liquidtight strain relief, and outlet bushing.
CSA certified watertight.

Temperature Rating: 105° C UL File No. E 13938

CSA File No. 589. CHASE® Liquidtight Cord Connectors are ideal for installation where space is limited inside the enclosure.

Flexible Cords and Cable Fittings

Multi-Hole Flexible Cord and Cable Connectors

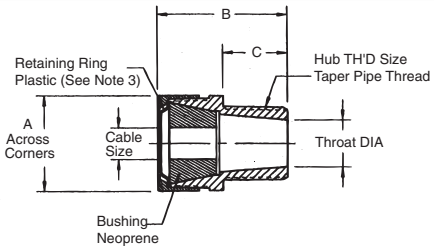


CAT. NO.	HUB SIZE, IN.	DIA. NO.	CORD DIA.
2520-2	½"	2	.220
2530-2	¾"	2	.220
2531-2	¾"	2	.260
2531-3	¾"	3	.260
2541-2	1"	2	.300
2542-2	1"	2	.375
2540-3	1"	3	.225
2541-3	1"	3	.300
2540-4	1"	4	.220
2555-2	1¼"	2	.500

NOTE: Range of cord dia. ± .010.

In many applications you have only room for one fitting but you need to run two cables for example, proximity switches. Now you can provide strain relief and liquidtight protection with T&B's new multi-hole liquidtight strain relief connectors. With the ever-increasing number of signal cables, now you have a solution to the problem of how to strain relieve multiple cables in one fitting.

Watertight Strain Relief Connectors (Straight)



NOTES:

1. Cord or cable will not pass thru body without removing outer covering.
2. Listed under UL file No. E13938A and CSA file No. 589 except Cat. Nos. 2516, 2517, 2518 and 2519.
3. 21/2" and 3" sizes have stainless steel retaining rings.
4. Cat. No. 2558AL through 2575AL have machined aluminum body with stamped sheet aluminum gland. All others have cast aluminum body and gland. All bodies and glands are etched clean and wax-coated for easy assembly.
5. Alumishield to be on gland to prevent galling of threads.

CAT. NO.	HUB THD SIZE (TAPER THD)	CABLE SIZE MIN.	CABLE SIZE MAX.	A	B MAX.	C	ON BUSHING	MARKING BUSHING PART. NO.	THROAT DIA. (MIN.)
2558AL	1¼	.880	1.065	2 3/32	2 5/32	13/16	.880-1.065	053-71411-63	1 17/64
2559AL	1¼	1.065	1.205	2 3/32	2 5/32	13/16	1.065-1.205	053-71411-64	1 17/64
2556AL	1¼	1.187	1.375	2 11/32	2½	13/16	2564	053-71411-18	1¼
2557AL	1¼	1.375	1.485	2 11/32	2½	13/16	None	033-72259-2	1¼
2562AL	1½	.812	1.000	2 11/32	2½	11/16	None	033-72259-3	1 7/16
2563AL	1½	1.000	1.187	2 11/32	2 7/16	11/16	2563	053-71411-17	1 7/16
2564AL	1½	1.187	1.375	2 11/32	2 7/16	11/16	2564	053-71411-18	1 7/16
2565AL	1½	1.375	1.625	2 13/16	2⅝	13/16	1.375-1.625	053-71411-65	1 29/64
2573AL	2	1.125	1.375	2 13/16	2⅝	13/16	1.125-1.375	053-71411-66	1 29/64
2574AL	2	1.375	1.625	2 13/16	2⅝	11/16	1.375-1.625	053-71411-65	1 29/64
2575AL	2	1.625	1.875	2 13/16	2⅝	11/16	1.625-1.875	053-71411-67	1 29/64
2576AL	2	1.750	1.965	3 3/32	3½	27/32	10412	033-72259-5	1 29/32
2577AL	2	1.937	2.187	3 3/32	3½	27/32	10413	033-72259-6	1 29/32
2584AL	2½	1.750	1.965	3 3/32	3¾	1 1/32	10412	033-72259-5	2
2585AL	2½	1.937	2.187	3 3/32	3¾	1 1/32	10413	033-72259-6	2
2586AL	2½	2.156	2.360	3 15/16	4¼	1 1/32	10414	033-72259-7	2 5/32
2587AL	2½	2.350	2.565	3 15/16	4¼	1 1/32	10415	033-72259-8	2 5/32
2592AL	3	2.156	2.360	3 15/16	4¼	1 1/32	10414	033-72259-7	2 13/32
2593AL	3	2.350	2.565	3 15/16	4¼	1 1/32	10415	033-72259-8	2 13/32
2594AL	3	2.535	2.750	3 15/16	4¼	1 1/32	10416	033-72259-9	2 13/32
2595AL	3	2.735	2.985	4 1/16	4 13/16	1⅛	None	033-72259-10	2 13/16
2596AL	3	2.990	3.220	4 1/16	4 13/16	1⅛	None	033-72259-11	2 13/16

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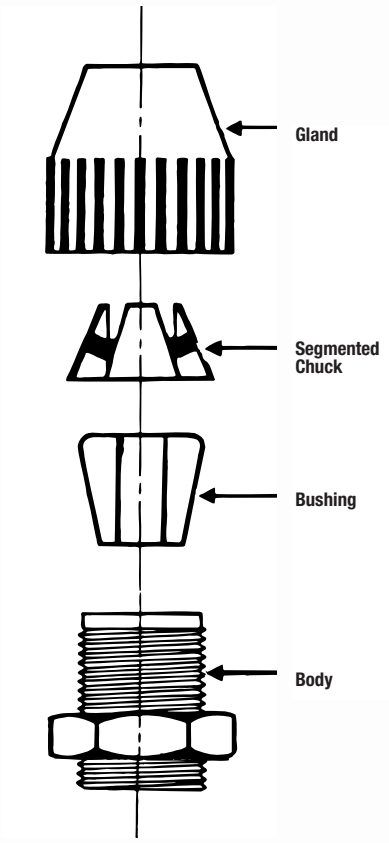
Flexible Cords and Cable Fittings — Non-Metallic

2672 Series



2672 Series

Liquidtight Flexible Cord Connectors —

Black Beauty® Series

Application

- A liquidtight connector to connect flexible cord to a box or enclosure and provide adequate strain relief

Features

- Taper Thread hub seals in female hub (A)
- Neoprene bushing provides liquidtight installation (B)
- Hand tightens — no tools needed for assembly
- Segmented chuck provides high mechanical pullout performance — will not cut or damage cord jacket (C)
- Corrosion and weather resistant plastic is excellent for outdoor/indoor use
- Plastic parts improve dielectric strength and provide insulated throat (D)
- Wide range — reduces inventories

Listed/Certified by:

UL . . . . . (UL File No. E-23018)

CSA LR-2884, LR-4484

Standard Material

Body, Gland & Segmented Chuck . . . . . Weather stabilized thermoplastic rated for -34° C (-29° F) to 105° C (221° F) application.

Bushing . . . . . Neoprene

Standard Finish

All parts as molded.

Range

.250 outside diameter to 1.020 outside diameter . . . . . Type S, SO, SV, ST, STO, ... SJ, SJO, SJT, SJTO, ... SVTO, SVO, SVT Flexible . . . . . Cords & Cables

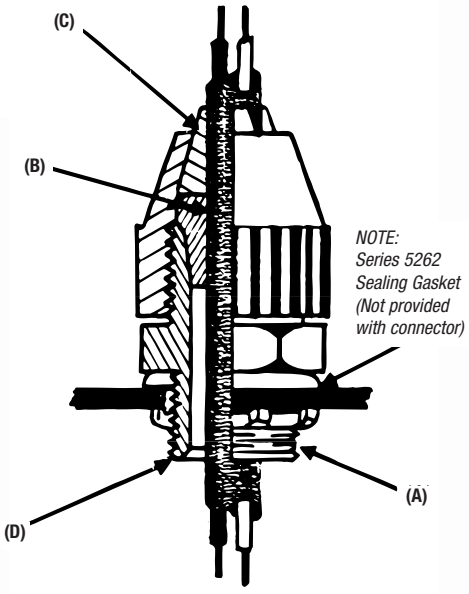
Conforms to

UL 514B

CSA C22.2 No. 18

NFPA 70-1999 (ANSI)

Federal Standard H-28 (Threads)

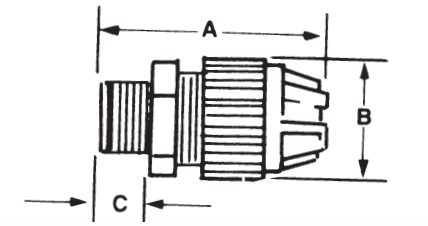


Typical Installation

Flexible Cords and Cable Fittings — Non-Metallic

Rugged, weather-stabilized nylon construction!

Non-Metallic Liquidtight Strain Relief Connector — Straight



- UL 94-V2 flammability rated
- Temperature rating: -34° C to +105° C
- Meets Coast Guard CG293

CAT. NO.	TRADE OR HUB SIZE	THROAT DIAM. (IN.)	CORD RANGE (IN.)	DIMENSIONS (IN.) A	B	C
2671	⅜"	0.33	.125–.275	2.0	.90	.46
2690	½"	0.33	.125–.275	2.3	.90	.60
2672	½"	0.55	.250–.400	2.6	1.27	.60
2673*	½"	0.55	.400–.560	2.6	1.27	.60
2691*	½"	0.54	.560–.690	3.0	1.57	.60
2692*	½"	0.54	.660–.780	3.0	1.57	.60
2693	¾"	0.55	.250–.400	2.7	1.27	.62
2694*	¾"	0.55	.400–.560	2.7	1.27	.62
2674	¾"	0.79	.560–.690	3.0	1.57	.62
2675	¾"	0.79	.660–.780	3.0	1.57	.62
2696*	¾"	0.76	.770–.895	3.2	1.89	.62
2676	1"	0.98	.660–.780	3.3	1.89	.77
2677	1"	0.98	.770–.895	3.3	1.89	.77
2678*	1"	0.98	.870–1.020	3.3	1.89	.77
2699	1"	0.98	.890–1.090	4.2	2.58	.77
2702	1¼"	1.25	.890–1.090	4.2	2.58	.80
2703	1¼"	1.25	1.080–1.280	4.0	2.58	.80
2704	1¼"	1.25	1.270–1.470	4.0	2.58	.80
2705-TB	1½"	1.47	.890–1.150	4.2	2.95	.82
2706	1½"	1.47	1.140–1.400	4.3	2.95	.82
2707	1½"	1.47	1.390–1.650	4.3	2.95	.82
2708	2"	1.89	1.190–1.530	5.1	3.50	.84
2709	2"	1.89	1.520–1.860	4.9	3.50	.84
2710*	2"	1.89	1.850–2.190	4.9	3.50	.84

**Remove sufficient outer covering of cable to permit conductors to pass thru connector body.*

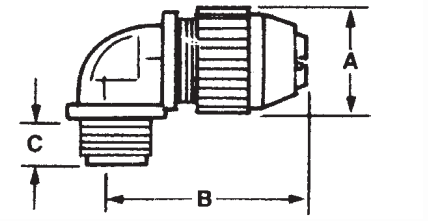
UL File No. E 13938

CSA File No. 52391

All items shown on this page are suitable for use in hazardous location where general purpose equipment is specifically permitted by the NEC. Class I, Div. 2. Class II, Div. 1 & 2. Class III, Div. 1 & 2. NEC 501-4(b), 502-4(a)(b), 503-3(a)(b).

90° angle with a standard-size body!

Non-Metallic Liquidtight Strain Relief Connector — 90° Elbow



- Weather-stabilized nylon construction
- UL 94-V2 flammability rated
- Temperature rating: -34° C to +105° C
- Meets Coast Guard CG293

CAT. NO.	TRADE OR HUB SIZE	THROAT DIAM. (IN.)	CORD RANGE (IN.)	DIMENSIONS (IN.) A	B	C
2680	⅜"	.33	.125–.275	29/32	1¾	.460
2681	½"	.55	.250–.400	—	—	—
2682*	½"	.55	.400–.560	—	—	—
2683	¾"	.78	.560–.690	—	—	—
2684	¾"	.78	.660–.780	—	—	—
2688	1"	.98	.560–.690	1 27/32	3¼	.770
2685	1"	.98	.660–.780	1 27/32	3¼	.770
2686	1"	.98	.770–.895	1 27/32	3 3/16	.770
2687*	1"	.98	.870–1.020	1 27/32	3	.770

**Remove sufficient outer covering of cable to permit conductors to pass thru connector body. 90° angle, standard size body.*

UL File No. E 13938

CSA File No. 52391

All items shown on this page are suitable for use in hazardous locations where general purpose equipment is specifically permitted by the NEC. Class I, Div. 2. Class II, Div. 1 & 2. Class III, Div. 1 & 2. NEC 501-4(b), 502-4(a)(b), 503-3(a)(b).

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Wire Mesh Grips

The T&B WMG-PC Series Wiremesh Grips for Portable Cord

T&B Wiremesh grips are ordered separately and fit with your existing inventory of Ranger® connectors and liquidtight strain relief connectors. There's no need to duplicate inventory.

Application

- Provides high gripping strength for adequate cable support and strain relief without damage to the cable sheath
- Compression of a tapered neoprene bushing ensures the watertight integrity of the fittings
- To meet National Electrical Code or NEC requirements for electrical installations in hazardous atmospheres, a sealing fitting may be required in conjunction with the cable and cord fitting

Cord & Cable Type

- S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVD

Features

- Prevents severe cord bends and pullouts
- Used in aluminum and/or steel fittings

Materials

- Wiremesh made of stainless steel. Retaining rings made of aluminum

Environment Classification

- Ordinary locations

Range

- .187 – 3.220

Now Includes Ranger® Series

How to select proper wiremesh grip:

1. Determine O.D. of portable cord, e.g., .200
2. Determine size of knockout or threaded hub, e.g. ½"
3. Select Cat. No. of strain relief connector, e.g., 2520, 2920AL.
4. Match up O.D. with grip range and strain relief to determine Cat. No. of Wiremesh Grip (e.g., .200 + 2520 = WMP-PC1)

2920 Series

2920AL Series

2516 Series

CAT. NO.	GRIP RANGE	STRAIN RELIEF CONNECTOR							
		STRAIGHT			45°		90°		
		RANGER® STEEL	RANGER® ALUMINUM	T&B STEEL	RANGER® STEEL	T&B STEEL	RANGER® STEEL	RANGER® ALUMINUM	T&B STEEL
WMG-PC1	.187–.250	2920	2920AL	2520	4920	2200	4960	4960AL	2267
WMG-PC2	.250–.375	2920	2920AL	2521	4920	2201	4960	4960AL	2268
WMG-PC3	.375–.500	2921	2921AL	2522	4921	2202	4961	4961AL	2269
WMG-PC4	.500–.625	2922 2932 2941	2922AL 2932AL 2941AL	2524 2534 2544	4922 4932 4941	2204 2209 2214	4962 4972 4981	4962AL 4972AL 4981AL	2250 2273 2255
WMG-PC5	.625–.750	2922 2932 2941	2922AL 2932AL 2941AL	2525 2535 2545	4922 4932 4941	2205 2210 2215	4962 4972 4981	4962AL 4972AL 4981AL	2251 2274 2256
WMG-PC6	.187–.250	2930	2930AL	2530	4930	2206	4970	4970AL	2252
WMG-PC7	.250–.375	2930	2930AL	2531 2541	4930	2207	4970	4970AL	2271
WMG-PC8	.375–.500	2931 2940	2931AL 2940AL	2532 2542	4931 4940	2208 2213	4961 4980	4961AL 4980AL	2272 2254
WMG-PC9	.750–.875	2942	2942AL	2536 2546	4942	2211 2216	4982	4982AL	2253 2275
WMG-PC10	.875–1.000	—	—	2547	—	2217	—	—	2276
WMG-PC11	.875–1.000	— —	— —	2548 2558	— —	2218 2220	— —	— —	2257 2277
WMG-PC12	1.000–1.125	— — — —	— — — —	2548 2558 2549 2559	— — — —	2218 2220 2219 2221	— — — —	— — — —	2257 2277 2258 2278
WMG-PC13	1.125–1.250	— —	— —	2549 2559	— —	— 2221	2258	2258 —	2219 2278
WMG-PC14	1.125–1.250	— — —	— — —	2556 2563 2564	— — —	— — —	2279 — —	2279 — —	2222 2282 2283
WMG-PC15	1.250–1.375	— —	— —	— 2564	— —	2222 —	— —	— —	2256 2283
WMG-PC16*	1.375–1.500	—	—	2557	—	2223	—	—	2280
WMG-PC17*	1.125–1.250	—	—	2573	—	—	—	—	2284

CAT. NO.	GRIP RANGE	STRAIN RELIEF CONNECTOR	
		STRAIGHT	90°
		T&B STEEL	T&B STEEL
WMG-PC18*	1.250–1.375	2573	2284
WMG-PC19*	1.375–1.500	2565 2574	2285 —
WMG-PC20*	1.500–1.625	2565 2574	2285 —
WMG-PC21*	1.625–1.750	2575	2286
WMG-PC22*	1.750–1.875	2575	2286
WMG-PC23	1.750–1.875	2576 2584	— —
WMG-PC24	1.875–2.000	2576 2584	— —
WMG-PC25	1.937–2.062	2577 2585	— —
WMG-PC26*	2.062–2.187	2577 2585	— —
WMG-PC27	2.125–2.250	2586 2592	— —
WMG-PC28	2.250–2.375	2586 2592	— —
WMG-PC29	2.350–2.475	2587 2593	— —
WMG-PC30	2.475–2.600	2587 2593 2594	— — —
WMG-PC31*	2.625–2.750	2594	—
WMG-PC32*	2.735–2.860	2595	—
WMG-PC33*	2.860–2.985	2595	—
WMG-PC34*	2.970–3.095	2596	—
WMG-PC35*	3.095–3.220	2596	—

*Replacement Gland Nut supplied with these catalog numbers only.

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Non-Metallic Cable Glands

Low-profile cable gland perfect for tight spots.

Non-Metallic Cable Glands

T&B Nylon Cable Glands have a sturdy cable sealing mechanism that results in superior strain relief. The compact size ensures quick and easy installation in cramped spaces. The non-metallic construction provides excellent corrosion, chemical and impact resistance. The glands have long threads and locknuts are available.

- Halogen-free
- Flame-retardant UL 94V0
- Rated IP 68 5 BAR, suitable for NEMA 4 enclosures
- UL Listed*, CSA listed for certain ranges of cable
- Working temperatures -30° C (-86° F) to +80° C (176° F)
- Continuous, +150° C (276° F) Intermittent
- Meets VDE ratings

* Material not UV resistant. Sturdy Nylon 6 for strong, lightweight construction. Gray color shown, also available in black.

CAT. NO. FITTINGS	THREAD SIZE	COLOR	CORD RANGE IN.	CORD RANGE MM	LENGTH OF THREAD IN.	LENGTH OF THREAD MM	USE T&B LOCKNUT CAT. NO.	UNIT PKG.	STD. PKG.
NPT Threads									
CC-NPT38-B	⅜"	Black	.197–.394	5–10mm	.590	15mm	—	50	250
CC-NPT38-G	⅜"	Gray	.197–.394	5–10mm	.590	15mm	—	50	250
CC-NPT12-B	½"	Black	.394–.551	10–14mm	.590	15mm	LN501	50	250
CC-NPT12-G	½"	Gray	.394–.551	10–14mm	.590	15mm	LN501	50	250
CC-NPT34-B	¾"	Black	.512–.709	13–18mm	.590	15mm	LN502	25	100
CC-NPT34-G	¾f"	Gray	.512–.709	13–18mm	.590	15mm	LN502	25	100
CC-NPT1-B	1"	Black	.709–.984	18–25mm	.709	18mm	LN503	20	100
CC-NPT1-G	1"	Gray	.709–.984	18–25mm	.709	18mm	LN503	20	100
ISO/Metric Threads									
CC-ISO16-G	16	Gray	.197–.394	5–10mm	.394	10mm	LN-ISO16-G	50	200
CC-ISO20-G	20	Gray	.236–.473	6–12mm	.590	15mm	LN-ISO20-G	50	200
CC-ISO25-G	25	Gray	.512–.709	13–18mm	.590	15mm	LN-ISO25-G	25	100
CC-ISO32-G	32	Gray	.709–.984	18–25mm	.590	15mm	LN-ISO32-G	20	100
PG Threads									
CC-PG7-G	7	Gray	.118–.256	3–6.5mm	.315	8mm	LN-PG7-G	50	200
CC-PG9-G	9	Gray	.157–.315	4–8mm	.315	8mm	LN-PG9-G	50	200
CC-PG11-G	11	Gray	.197–.394	5–10mm	.315	8mm	LN-PG11-G	25	100
CC-PG135-G	13½	Gray	.236–.473	6–12mm	.354	9mm	LN-PG135-G	25	100
CC-PG16-G	16	Gray	.394–.551	10–14mm	.394	10mm	LN-PG16-G	25	100
CC-PG21-G	21	Gray	.512–.709	13–18mm	.433	11mm	LN-PG21-G	10	50
CC-PG29-G	29	Gray	.709–.984	18–25mm	.433	11mm	LN-PG29-G	10	50
CC-PG36-G	36	Gray	.867–1.26	22–32mm	.512	13mm	LN-PG36-G	10	50

**Listed under UL file E13938, control #137B NPT and PG threaded Cable Glands are UL Listed, ISO/Metric Threaded Cable Glands are not UL Listed.*

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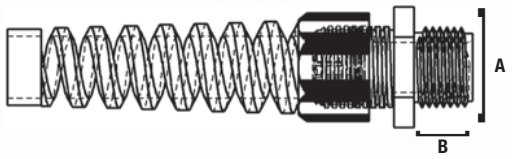
Non-Metallic Cord Fittings

Non-Metallic Cable/Cord Fitting with Integral Strain-Relief

NEW!

Thomas & Betts is pleased to announce the new non-metallic spiral cable/cord connector. T&B spiral cable/cord connectors are ideal in environments where maximum protection is needed against conductor fatigue caused by flexing cables.

- Strain-relief is integral to the fitting, saving time and costs of additional parts for cable/cord installations
- UL listed
- Contains an IP68 rating for NEMA 4 enclosures
- Meets VDE ratings for European applications



Specifications

Materials. . . . . Polyamide 6 (Body, Cap)
Neoprene (Sealing Ring)

Colors Available. . . . . Black, Gray

Protection Class . . . . . IP 68, 5 Bar

Temperature Range. . . . . – 30° C to +80° C permanent
(-86° F – +176° F)

Operating Temperature . . . . . Up to +150° C (+276° F)
continuous

Please contact your Thomas & Betts sales representative regarding our custom grommet offering.

Non-Metallic Spiral Cable/Cord Fitting

CAT. NO.	SIZE	MIN. CABLE RANGE	MAX CABLE RANGE	USE T&B LOCKNUT CAT. NO.	COLOR	DIMENSIONS (IN.) A	DIMENSIONS (IN.) B	STD. PKG. QTY.
SP-NPT38-G	⅜"	.197	.394	—	Gray	.866	.590	25
SP-NPT38-B	⅜"	.197	.394	—	Black	.866	.590	25
SP-NPT12-G	½"	.394	.551	LN501	Gray	1.062	.590	25
SP-NPT12-B	½"	.394	.551	LN501	Black	1.062	.590	25
SP-NPT34-G	¾"	.512	.709	LN502	Gray	1.299	.590	25
SP-NPT34-B	¾"	.512	.709	LN502	Black	1.299	.590	25

Space and labor-saving cord fittings for panels.

Multi-Hole Cord Grip Connectors

NEW!

- Ideal in limited space environments where multiple cables run into an enclosure
- Small cables such as instrumentation wires, proximity device wiring and signal cables can run safely into the enclosure
- Liquidtight, easy to assemble, provide good strain relief, offer a wide clamping range and are simple to use

T&B® Multi-Hole Cord Grip Connector Information

CAT. NO.	TRADE SIZE	NUMBER OF OPENINGS	CABLE RANGE MINIMUM	CABLE RANGE MAXIMUM	BODY LENGTH MINIMUM	BODY LENGTH MAXIMUM	LENGTH PER 100	THREAD WEIGHT
CC-NPT12-G2	½"	2	.190	.250	1.051"	1.291"	.590"	2.5 lbs.
CC-NPT12-G3	½"	3	.190	.250	1.051"	1.291"	.590"	2.5 lbs.
CC-NPT34-G2	¾"	2	.230	.290	1.283"	1.492"	.590"	2.5 lbs.
CC-NPT34-G3	¾"	3	.230	.290	1.283"	1.492"	.590"	2.5 lbs.
CC-NPT34-G4	¾"	4	.230	.290	1.283"	1.492"	.590"	2.5 lbs.

** Based on the comparative material and labor costs of installing one multi-hole connector rather than three connectors in the same panel.*

Service Entrance Cable Fittings

Suggested Specifications for Service Entrance Fittings

All service fittings shall be approved for the purpose by a nationally recognized testing laboratory, inspection agency or product evaluation organization.

Where service raceway consists of a rigid metal conduit, intermediate metal conduit, electrical metallic tubing or where service entrance cable is used as service conductors, a suitable rain tight service head conforming to Federal Standard W-C-586 shall be provided.

Fastening

Series 4175
Pipe Strap (EMT)

Series 1275/1275AL
Pipe Strap (Rigid Metal Conduit & I.M.C.)

Series 1350/1350AL
Pipe Spacer
(Rigid Metal Conduit I.M.C. & EMT)

Service raceway shall be securely fastened in place to the supporting surface at intervals as specified by the Code using suitable straps and spacers; straps and spacers shall be of malleable iron or steel construction, hot dipped galvanized or electro zinc plated conforming to Canadian Standards Association Standard C22.2 No. 18 and as manufactured by Thomas & Betts: series 1275 or 4175 straps and series 1350 spacers; aluminum straps or spacers such as series 1275AL and series 1350AL may be substituted when installed in environmental conditions that are more than normally corrosive.

Threaded Rigid Metal

Series 1490
Entrance ELL

Where threaded rigid metal service raceway enters the building, the raceway shall be equipped with a cast malleable iron/copper-free aluminum entrance ell suitably bushed with a burr-free end stop and taper tapped holes as manufactured by Thomas & Betts, series 1490.

Grounding & Bonding

Series 3870
Bonding & Grounding Bushing — Insulated

Series 106
Bonding Locknut

For grounding and bonding of service raceway, end of raceway or the terminating fitting shall be equipped with bonding locknuts and insulated metallic grounding and bonding bushing as required.

Bonding locknuts shall be of hardened steel or malleable iron construction, electro zinc plated, and provided with hardened bonding screws as manufactured by Thomas & Betts, series 106 bonding locknuts.

Insulated metallic grounding and bonding bushing shall be of malleable iron/steel construction, electro zinc plated and assembled with an insulator listed or certified for 150° C/302° F service as manufactured by Thomas & Betts, series 3870.

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Technical Services
Tel: 888.862.3289

Service Entrance Cable Fittings

Suggested Specifications for Service Entrance Fittings *(Continued)*

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

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

Terminating Fittings

Series 2111
Service Entrance Cable Connector

Series 2116
Underground Feeder Cable Connector

Series 3302M
Two Screw Connector (Insulated)

Terminating fittings for service entrance cable (Type SE or USE) or underground feeder and branch — circuit cable (Type UF) in locations where exposed to intermittent or constant moisture or in dry locations and subjected to mechanical strain shall be of watertight strain relief type as manufactured by Thomas & Betts, series 2111 or 2116; fittings shall be constructed of ferrous or non-ferrous metal and equipped with taper threaded hub, beveled moisture resistant/oil resistant synthetic rubber bushing.

In dry locations, nylon insulated two screw type fittings of malleable iron/steel construction electro zinc plated inside outside, including threads such as series 3302M manufactured by Thomas & Betts may be substituted.

Gaskets

Series 5262, 5302
Sealing Gasket

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

Supports

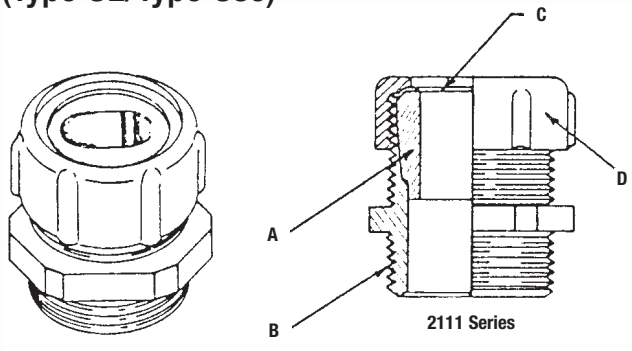
Series 1341
Cable Strap

Service entrance cable shall be adequately supported at intervals enumerated in code using cable straps conforming to requirements of Canadian Standards Association Standard CSA 22.2 No. 18; cable straps shall be of malleable iron/steel construction, hot-dipped galvanized or electro zinc plated as manufactured by Thomas & Betts, series 1341.

Service Entrance Cable Fittings

Service Entrance Cable Connector

(Type SE/Type Use)



Application

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

Standard Material/Finish

Body . . . . . Zinc Die Cast/as cast
Gland . . . . . Steel/Electro Zinc Plated & Chromate Coated
Retaining Ring . . . . . Stainless Steel/Passivated
Bushing . . . . . Neoprene/as molded

Range

Oval (Flat) Cable Size . . . . . .260 x .500 thru 1.062 x 1.765
Type USE Cable Size . . . . . .3 #12 thru 3-4/0 AWG Conductors
Hub Size. . . . . ½" thru 2" NPT (taper pipe threads)

Features

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

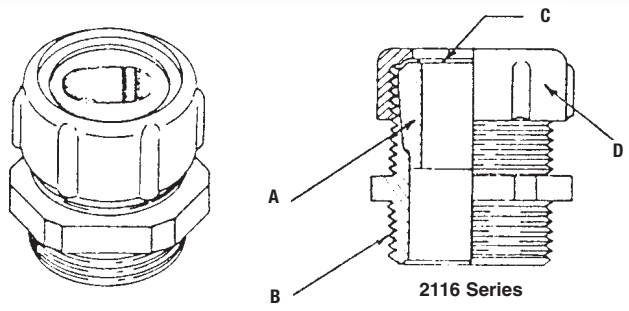
Listed by

UL (UL File No. E15170)
CSA (LR589, LR4484)

Conforms to

UL514, NEMA FB1, Federal Standard
H-28 (Threads), NFPA70

Underground Feeder Cable Connectors



Application

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

Standard Material/Finish

Body . . . . . Zinc Die Cast/as cast
Gland . . . . . Steel/Electro Zinc Plated & Chromate Coated
Retaining Ring . . . . . Stainless Steel/Passivated
Bushing . . . . . Neoprene/as molded

Range

Oval (Flat) Cable Size. . . .235 x .500 thru .260 x .740
Hub Size. . . ½" thru 1" NPT (tapered pipe threads)

Features

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

Listed by

UL
CSA (LR2884)

Conforms to

UL514B, NEMA FB1, Federal Standard
H-28 (Threads), NFPA70

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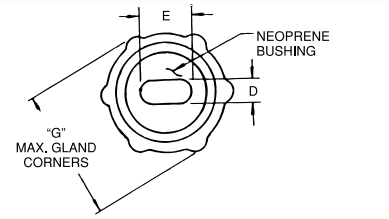
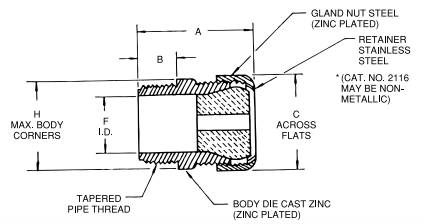
Service Entrance Cable Fittings

Oil- and water-resistant neoprene bushing specially designed for sealing around underground feeder cable!

Underground Liquidtight Feeder-Cable Fittings

- Stainless steel retaining ring provides bearing surface for glandnut and eliminates cable twist
- Ribbed glandnut tightens easily with wrench to form high-strength connection





CAT. NO.	HUB SIZE	CABLE OPENING	DIMENSIONS (IN.) A	B	C	D MIN.	D MAX.	E MIN.	E MAX	F	G	H
2116-TB*	½"	.235 x .500	1 1⁄16	5⁄8	1	.060	.235	.350	.500	9⁄16	1 1⁄8	1 1⁄8
2237	¾"	.230 x .430	1 3⁄16	9⁄16	1 7⁄32	.080	.230	.320	.430	13⁄16	1 3⁄8	1 3⁄8
2238	¾"	.235 x .465	1 3⁄16	9⁄16	1 7⁄32	.050	.235	.340	.465	13⁄16	1 3⁄8	1 3⁄8
2239	¾"	.240 x .685	1 3⁄16	9⁄16	1 7⁄32	.060	.240	.500	.685	13⁄16	1 3⁄8	1 3⁄8

** Not CSA Certified*

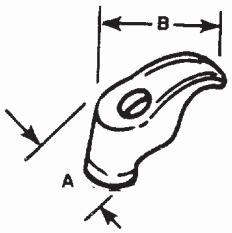
UL File No. E-23017

CSA File No. 2884

Rocking action of foot allows each strap to accept a wide range of wire sizes!

Cable Straps

- Hole for ¼" screw
- Hot-dipped galvanized malleable iron construction



CAT. NO.	WIRE SIZE	DIMENSIONS (IN.) A	B
1341-TB	2-#10	5⁄8	1 1⁄8
1344	3-#6 or 3-#8	5⁄8	1 15⁄16
1345*	3-#4 or 3-#2	13⁄16	1∂
1346	3-1/0	¾	2 7⁄16
1347	3-4/0	¾	2 25⁄32

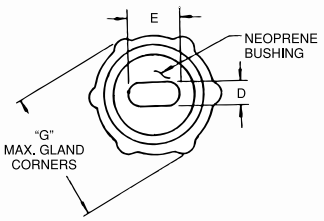
** Steel, hot dipped galvanized.*

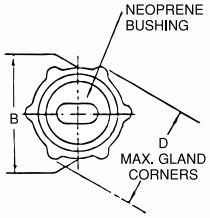
UL not applicable

CSA Certified

Service Entrance Cable Fittings

Two-taper design — one slow and one fast — enables connectors to accept varied cable sizes for maximum take-up!





Watertight Connectors for Oval Cable

- Tapered neoprene bushings resist oil, sunlight and water
- Hex gland and body take same wrench opening
- Stainless-steel slip ring prevents cable from twisting as gland ring is tightened
- Threads on body tapered for water-sealing

Watertight Connectors for Oval Cable

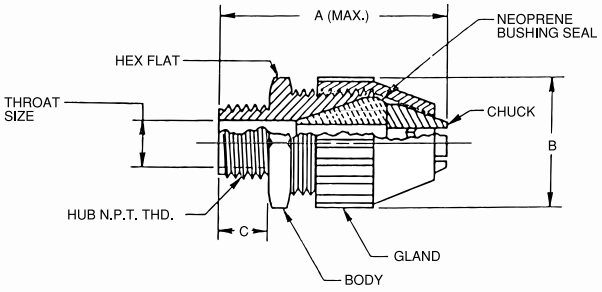
CAT. NO.	HUB SIZE	DIMENSIONS (IN.) A	B	C	D	E	OVAL CABLE RANGE MAX.	MIN.
2111	½"	1¾	1¼	⅝	1⅜	1⅜	.420 x .560	.380 x .520
2232	¾"	1 11/16	1¼	9/16	1⅜		.385 x .600	.260 x .500
2233	¾"	1 11/16	1¼	9/16	1⅜		.500 x .750	.375 x .625
2234	¾"	1 11/16	1¼	9/16	1⅜		.555 x .800	.490 x .675
2432	1"	1 11/16	1¼	9/16	1⅜		.385 x .600	.260 x .500
2433	1"	1 11/16	1¼	9/16	1⅜		.500 x .750	.375 x .625
2434	1"	1 11/16	1¼	9/16	1⅜		.555 x .800	.430 x .675
2438	1"	1¾	1½	25/32	1 11/16	1¾	.565 x .855	.440 x .730
2439	1"						.635 x .975	.510 x .850
2442	1¼"						.635 x .975	.510 x .850
2443	1¼"	2 1/16	1 15/16	⅝	2 1/16	2⅛	.640 x 1.050	.490 x .900
2446	1¼"						.750 x 1.150	.565 x .965
2454	1½"	2¼	2⅛		2 5/16	2 5/16	.840 x 1.275	.655 x 1.090
2447	1½"						.880 x 1.425	.695 x 1.240
2448	2"			11/16			.968 x 1.500	.790 x 1.390
2449	2"	2⅜	2⅝		2¾	2 19/32	1.062 x 1.765	.850 x 1.550
2450	2"						1.820 x 1.190	1.700 x 1.050

UL File No. E-15170

CSA File No. 589

NOTE: These may be obsoleted and replaced.

Hand tightens — no tools required!



Nylon UF-Cable Fittings for Corrosive Environments

- Tapered threaded hub
- Liquid- and dust-tight
- Corrosion- and weather-resistant nylon construction for both outdoor and indoor applications

Nylon UF Cable Fittings for Corrosive Environments

CAT. NO.	HUB SIZE	UF CABLE RANGE MAX.	MIN.	A MAX.	B ± .060	C ± .060
2827	½"	.550 x .280	.400 x .190	2.60	1.270	.600
2828	¾"	.675 x .280	.525 x .190	3.00	1.570	.620
2829	¾"	.775 x .280	.625 x .190	3.00	1.570	.620

UL File No. 15170

CSA File No. 589

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Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

Metal Clad Cable, Armored Cable and Flexible Metal Conduit

Armored Cable (Type AC) — Ref. NEC Article 320

National Electrical Code defines type AC armored cable as, "A fabricated assembly of insulated conductors in a flexible metallic enclosure."

ACT Indicates an armored cable employing conductors having thermoplastic (Type T) insulation.

AC Indicates an armored cable employing conductors having rubber insulation of code grade.

ACH Indicates an armored cable employing conductors having rubber insulation of the heat resistant (75° C) grade.

ACHH Indicates an armored cable employing conductors having rubber insulation of the heat resistant (90° C) grade.

ACU Indicates an armored cable employing conductors having rubber insulation of latex grade.

"L" Used as a suffix, it indicates that a lead covering has been applied over the conductor assembly.

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

No. 14 AWG to No. 1 AWG Copper

No. 12 AWG to No. 1 AWG Aluminum or Copperclad Aluminum

Type AC cables except ACL carry an internal bonding strip of copper or aluminum in intimate contact with the armor for its entire length. Armored cable can be used for both exposed or concealed locations. With lead-covered conductors (Type ACL), the cable can be embedded in masonry or concrete and can be used in damp locations or where exposed to oil.

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

With minor exceptions, armored cable is also not permitted to be used in hoists or elevators, storage battery rooms, any hazardous locations, in commercial garages and in theaters or similar locations.

Codes require that cable shall be supported with straps or staples without damaging conductors and also limit the minimum bend radius to 5 times the diameter of type AC cable. Certain precautions are prescribed in code where cable is installed through joist rafters or similar wood members.

According to NEC 320 where armored cable is terminated, a fitting is required to protect conductors from abrasion. In addition, a bushing is required between the conductors and armor. Design of fitting has to be such that the insulating bushing is visible for inspection. Bushing is not required with lead-covered cables when properly installed.

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

1. NEC Article 320…Armored Cable (Type AC Cable)
2. UL 4, ANSI C33.9…Safety Standards for Armored Cable
3. UL 514B, Safety Standards for Outlet Boxes and Fittings
4. A-A-50552…Federal Specification. Fittings for Cable, Power, Electrical and Conduit, Metal, Flexible
5. NEMA FB-1…Standards Publication. Fittings & Supports for Conduit and Cable Assemblies
6. CEC Section 12-700…Wiring Methods (Armored Cable)
7. CSA C22.2 No. 51…Safety Standards for Armored Cables
8. CSA C22.2 No. 18…Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

NOTE

The materials herein, whether relating to the National Electrical Code, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation of our products. Refer to applicable codes, instructions and industry specifications prior to installation or use.

Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

Metal Clad Cable, Armored Cable and Flexible Metal Conduit — continued

Flexible Metal Conduit — Ref. NEC Article 348

Flexible metal conduit can be used for exposed or concealed work in dry locations. It can be used for wet locations provided conductors within are lead covered or other approved type.

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

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

According to NEC Article 350-5, flexible metal conduit no longer than six feet and containing circuit conductors protected by overcurrent device rated for 20 amps or less is suitable as a grounding means provided, it is terminated in fittings approved for the purpose.

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

In Class I & II, Division 2 hazardous areas, the conduit itself cannot be used as the grounding means. A bonding jumper must be installed in accordance with NEC Section 250.102. Flexible metal conduit is available with steel or aluminum armor in trade size 5⁄16" to 4". With few exceptions where 5⁄16" and 3⁄8" trade sizes are used, Code prohibits use of conduit less than d" trade size. Bends in concealed work are restricted to 360 degrees total. No angle connectors are permitted in concealed raceway installations.

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

1. NEC Article 348…Flexible Metal Conduit
2. UL 1, ANSI C33.92…Safety Standards for Flexible Metal Conduit
3. UL 514B, Safety Standards for Outlet Boxes and Fittings
4. A-A-50552…Federal Specification. Fittings for Cable, Power, Electrical and Conduit, Metal Flexible
5. WW-C-566…Federal Specification. Conduit, Metal, Flexible
6. NEMA FB1…Standards Publication. Fittings and Supports for Conduit and Cable Assemblies
7. CEC 12-1100…Wiring Method (Rigid & Flexible Conduit)
8. CSA C22.2 No. 56…Safety Standards for Flexible Metallic Conduit and Liquid-Tight Flexible Metal Conduit
9. CSA C22.2 No. 18…Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

Suggested Specifications for Armored Cable and Flexible Metal Conduit Fittings

Series 3110
Armored Cable Connector & Flexible Metal Conduit

Series 422
Insuliner® Sleeve

- Armored cable (metal clad cable type AC) and flexible metal conduit shall conform to provisions of following applicable standards:

  Armored Cable…UL 4/ANSI C33.9/CSA 22.2 No. 51

  Flexible Metal Conduit…UL 1/ANSI C33.92/WW-C-566/CSA 22.2 No. 56

  Type of cable used and conductors within flexible metal conduit shall be suitable for conditions of use and location.

- Where approved armored cable or flexible metal conduit is used as an equipment grounding conductor, terminating fitting used shall be of the grounding type as manufactured by Thomas & Betts, series 3110

- Where armored cable or flexible metal conduit terminates into a threadless or threaded opening, it shall be assembled with approved fittings; fittings shall be of malleable iron/steel construction, electro zinc plated inside outside, equipped with nylon insulated throat and shall be of angled saddle type as manufactured by Thomas & Betts, series 3110. Direct bearing screw type fittings shall not be used

- Suitable bushing as manufactured by Thomas & Betts, series 422 or 390, shall be provided between the conductors and armor

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Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

Armored Cable & Flexible Metal Conduit Connectors

3110 Series

Application

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

Features

- Provided with a saddle designed to:
  - (1) Firmly secure conduit in place without damaging cable armor (Mechanical holding power of angled wedge assembly increases with increased strain.)
  - (2) Provide high quality bond between conduit or cable and is unaffected by vibrations
  - (3) Centralize conduit or cable with respect to throat opening for conductors
- Insulated throat protects conductors during and after installation, reduces wire pull effort and prevents thread damage in handling
- Locknuts designed to provide effective bond between connector and box or enclosure, will not vibrate loose
- Designed with fewer screws — reduces installation time and cost
- Armor stop with viewing window
- Rugged all steel or malleable iron construction
- Suitable as a grounding means per NEC Article 348 for flexible metal conduit, NEC Article 320 for armored cable and NEC Article 330 for metal clad cable
- Suitable for hazardous location use per Class 1 Division 2 NEC 501.10 (b)(2)

Standard Material/Finish

Body . . . . . Steel or malleable iron/ Electro Zinc Plated & Chromate Coated

Saddle . . . . . Steel/Electro Zinc Plated & Chromate Coated

Screws . . . . . Steel/Electro Zinc Plated & Chromate Coated

Insulator . . . . . Thermoplastic/As Molded

Conforms to

UL 514B

CSA C22.2 No. 18

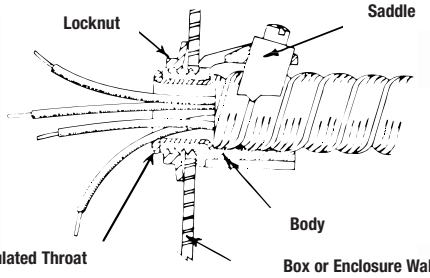
NEMA FB1

Listed/Certified by

UL	(UL File No. 23018)
CSA	(LR-2884, LR-4484)

RANGE	HUB SIZE	CONDUIT SIZE	CABLE OPENING
3110 Series Straight Connectors	¼" thru 5" NPS	⅜" thru 5"	.437" to 5.500"
3130 Series 90° Connectors	¼" thru 4" NPS	⅜" thru 4"	.437" to 4.560"

(All hubs provided with straight pipe threads NPS)



Typical Installation

Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

Designed to resist vibration and strain!

TITE-BITE® Connectors — Nylon-Insulated

- Steel or malleable iron construction
- Tough, insulated lining and Tite-Bite® design make these connectors a "must" when conductors are subject to vibration or strain
- Look for the unique T&B blue color to ensure the highest quality fitting

CAT. NO.	CABLE OPENING MAX.	CABLE OPENING MIN.	TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.) A†	B	C
3110-TB**#	.660	.470	⅜"	½"	1¼	1⅛	g
3112#	.937	.750	½"	½"	1¼	1⅛	g
3115#	1.125	.906	¾"	¾"	1 25/32	1¾	1 7/32
3117#	1.468	1.250	1"	1"	2⅜	1¾	1⅛
3118***	1.750	1.562	1¼"	1¼"	2¾	2	1¼
3119***	2.031	1.812	1½"	1½"	3⅛	2⅝	1¾
3120***	2.500	2.312	2"	2"	3¾	2¾	1 13/16
3121***	3.062	2.812	2½"	2½"	4⅜	3¼	2¼
3122***	3.562	3.312	3"	3"	5	3¼	2¼
3123***††	4.060	3.620	3½"	3½"	—	—	—
3124***	4.560	4.120	4"	4"	—	—	—

***UL Listed for armored cable only.*

****UL Listed for flexible metal conduit only.*

Material: Steel thru ¾" trade size.

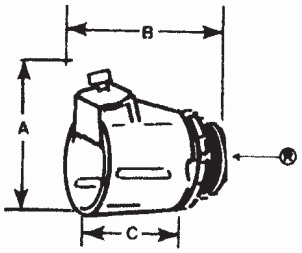
†Approximate dimension with screw at minimum height.

UL File No. E 23018

CSA File No. 2884

††CSA not applicable.

 # Approved for Metal Clad Cable



Completely salvageable!

TITE-BITE® Connectors

- Easy to install with double-grip saddle
- ⅜" and ½" sizes made of formed steel, which produces uniform high quality and a smooth throat to protect conductor insulation
- ¾" and larger size are malleable iron

CAT. NO.	CABLE OPENING MAX.	CABLE OPENING MIN.	TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.) A†	B	C
300-TB**#	.660	.470	⅜"	½"	1¼"	1 5/16	7/16
302-TB#	.937	.750	½"	½"	1⅝	1 1/16	1 7/64
304#	1.093	.906	¾"	¾"	1⅞	1 1/16	1 7/32
306#	1.468	1.250	1"	1"	2 1/16	1¾	1¾
308***	1.750	1.562	1¼"	1¼"	2 5/16	2 1/32	1¼"
310***	2.031	1.812	1½"	1½"	2⅝	2 9/16	1¾
312***	2.500	2.312	2"	2"	3⅛	2 13/16	1 13/16
314***	3.062	2.812	2½"	2½"	3½	3⅛	2¼"
316***	3.562	3.312	3"	3"	4 1/16	3 3/16	2¼"

***UL Listed for armored cable only.*

****UL Listed for flexible metal conduit only.*

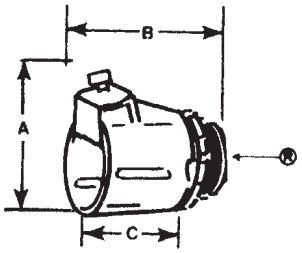
†Approximate dimension with screw at minimum height.

UL File No. E 23018

CSA File No. 2884

Material: Steel thru ½" trade size.

 # Approved for Metal Clad Cable



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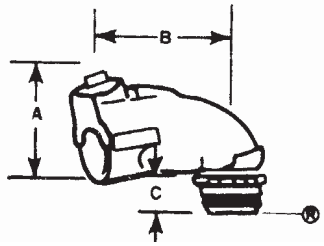
Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings



- Steel or malleable iron construction
- Offers all of the advantages of the straight connector with only one screw to tighten, except in the larger sizes, which have two
- Peep hole on top provides for easy inspection of ABC bushing
- Narrow design makes it easy to install connectors in adjacent knockouts

The easiest and best connector to install when making sharp bends at the enclosure or equipment!

TITE-BITE® Connectors — 90° Angle Nylon-Insulated

CAT. NO.	CABLE OPENING MAX.	CABLE OPENING MIN.	TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.) A†	B	C
3130-TB#	.660	.470	⅜"	½"	1 11/32	1 19/32	15/16
3132#	.937	.750	½"	½"	1⅛	2 5/16	15/16
3135#	1.093	.906	¾"	¾"	2⅛	2⅛	9/16
3137#	1.468	1.250	1"	1"	2 21/32	2⅛	½
3138***	1.750	1.562	1¼"	1¼"	3 5/16	3 9/32	9/16
3139***	2.031	1.812	1½"	1½"	4	4⅛	11/16
3140***	2.500	2.312	2"	2"	4 15/16	5 1/16	11/16
3141***	3.062	2.812	2½"	2½"	6 9/32	6	¾
3142***	3.562	3.312	3"	3"	7 11/32	7 1/16	¾
3143†††	4.060	3.620	3½"	3½"	—	—	—
3144-TB***	4.560	4.120	4"	4"	—	—	—

****UL Listed for flexible metal conduit only.*

†Approximate dimension with screw at minimum height.

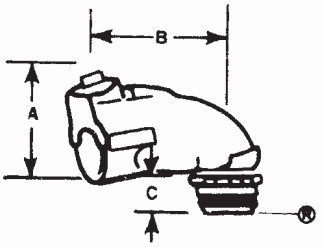
†††Not UL Listed or CSA Certified.

UL File No. E 23018

CSA File No. 2884

TITE-BITE® Connectors — 90° angle*

 # Approved for Metal Clad Cable



- Throat is long enough to install in cast housing knockouts
- ⅜" and ½" sizes of steel construction
- ¾" and larger sizes made of malleable iron

Angle clip provides secure mechanical grip that tightens under tension or vibration!

TITE-BITE® Connectors — 90° Angle

CAT. NO.	CABLE OPENING MAX.	CABLE OPENING MIN.	TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.) A†	B	C
321-TB#	.660	.470	⅜"	½"	1 11/32	1½	⅜
323#	.937	.750	½"	½"	1⅛	2⅜	17/32
325#	1.093	.906	½"	½"	2⅛	2⅛	½
326-TB#	1.468	1.250	1"	1"	2 21/32	2⅛	1
327-TB***	1.750	1.562	1¼"	1¼"	3⅛	3⅝	—
328***	2.031	1.812	1½"	1½"	4⅛	4⅛	—
329***	2.500	2.312	2"	2"	4⅜	4 31/32	—
330-TB***	3.062	2.812	2½"	2½"	6½	6	—
331***	3.562	3.312	3"	3"	5 25/32	7	—

****UL Listed for flexible metal conduit only.*

†Approximate dimension with screw at minimum height.

UL File No. E 23018

CSA File No. 2884

 # Approved for Metal Clad Cable

- Can be used on smooth or corrugated aluminum sheathed and steel MC cable
- One-screw design enables quick installation

Unique saddle design firmly secures cable in place, provides holding power in excess of listing agency requirements and ensures high-quality bonding!

TITE-BITE® Aluminum Sheathed Cable Connectors

CAT. NO.	DIA. RANGE ALUM. SHEATH (IN.)	HUB SIZE
2492	(.370–.500)	½"

UL Listed as a grounding means for steel MC cable and ALS. For dry location.

UL File No. E 38947

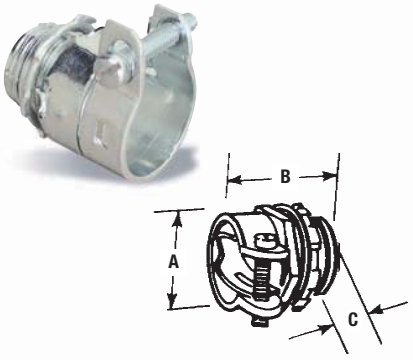
CSA File No. 589

Tite-Bite® Connectors are approved for continous sheathed corrugated MC cable.

Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

Fits every size of armored cable, leaded cable and flexible conduit!

Squeeze Connectors



- Malleable iron or steel construction
- Catalog No. 253 is steel

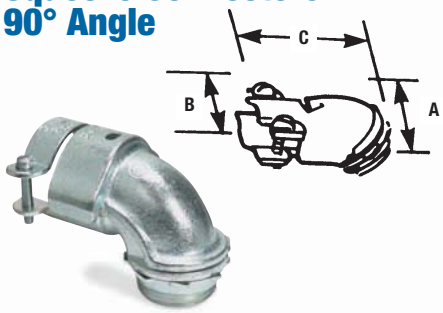
CAT. NO.	CABLE OPENING MAX.	CABLE OPENING MIN.	TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.) A†	B	C
252***	.531	.437	5/16"	3/8"	13/16	25/32	11/32
253TB**	.585	.455	3/8"	1/2"	31/32	1 13/64	5/8
254-TB	.938	.812	1/2"	1/2"	1 7/32	1 3/8	13/32
255	1.094	.938	3/4"	3/4"	1 1/4	1 17/32	7/16
256	1.375	1.250	1"	1"	1 19/32	1 5/8	1/2
257***	1.656	1.500	1 1/4"	1 1/4"	1 7/8	1 23/32	17/32
258***	1.875	1.688	1 1/2"	1 1/2"	2 1/4	1 7/16	9/16
259***	2.500	2.313	2"	2"	2 31/32	2 5/8	1 1/16
249***	3.062	2.812	2 1/2"	2 1/2"	3 5/16	2 11/16	3/4
277***	3.563	3.312	3"	3"	3 13/16	2 7/8	3/4
278-TB	4.370	3.200	3 1/2"	3 1/2"	6 5/8	5 1/4	1 5/16
281-TB	4.600	3.500	4"	4"	7 1/4	5 3/4	1 5/8

*** UL Listed for armored cable only. Fitting material steel.*
**** UL Listed for flexible metal conduit only.*
† Approximate dimension with screw at minimum height.

UL File No. E 23018
CSA File No. 2884

Only two screws to tighten!

Squeeze Connectors — 90° Angle



- Cap lifts off simply by loosening screws partway
- 3/8" and 1/2" sizes made of steel
- 3/4" and larger sizes made of malleable iron

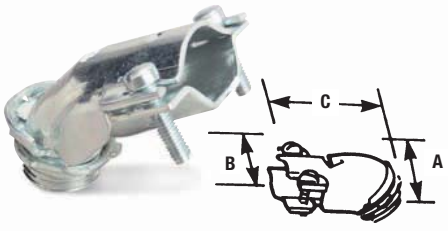
CAT. NO.	CABLE OPENING MAX.	CABLE OPENING MIN.	TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.) A	B	C
266-TB	.656	.406	3/8"	1/2"	1 1/2	1 13/32	1 1/16
272**	.812	.688	3/8"	1/2"	1 9/16	1 7/8	—
268-TB	.937	.813	1/2"	1/2"	1 11/16	1 13/16	1 7/8
279	1.000	.875	3/4"	3/4"	1 13/16	2 1/16	1 13/16
270	1.125	1.000	3/4"	3/4"	1 7/8	1 3/4	1 13/16
273TB	1.406	1.187	1"	1"	2 3/8	2 3/32	2 1/16
274***	1.656	1.375	1 1/4"	1 1/4"	3	3	3
275***	1.875	1.625	1 1/2"	1 1/2"	3 3/8	3 5/16	4
276***	2.500	2.125	2"	2"	4 1/2	3 13/16	4 3/8
282-TB	3.100	2.520	2 1/2"	2 1/2"	4 5/16	5 17/16	7 9/16
283-TB	3.640	3.100	3"	3"	5 1/16	6 9/16	8 15/16
284-TB	4.220	3.700	3 1/2"	3 1/2"	6 13/16	8 5/16	11 1/4
285-TB	4.600	4.100	4"	4"	7 1/4	8 7/8	12 3/8

** UL Listed for armored cable only.*
*** UL Listed for flexible metal conduit only.*

UL File No. E23018
CSA File No. 2884

Fast and easy installation — simply loosen screws partway to lift off cap!

Squeeze Connectors — 45° Angle



- 3/8" and 1/2" sizes made of steel
- 3/4" and larger sizes made of malleable iron

CAT. NO.	CABLE OPENING MAX.	CABLE OPENING MIN.	TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.) A	B	C
265	.656	.406	3/8"	1/2"	1 17/32	15/32	1 1/8
267	.937	.813	1/2"	1/2"	1 23/32	1/2	1 1/4
269	1.125	1.000	3/4"	3/4"	2	17/32	1 1/16

UL File No. E-23018
CSA File No. 2884

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Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

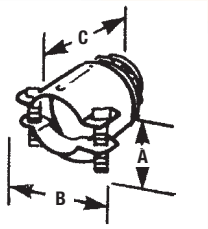
Armor-gripping saddle stays open by itself when cable is being inserted!

Two-Screw Connectors

- Formed steel body
- Carefully round bushing

CAT. NO.	CABLE OPENING MAX.	CABLE OPENING MIN.	TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.) A	B	C
3301-TB**	.656	.250	⅜"	½"	31/32	1 5/16	1 1/16
3312-TB	.937	.500	½"	½"	1 3/32	1 5/8	1 3/8

** UL Listed for armored cable only. UL File No. E 1383 CSA File No. 2884



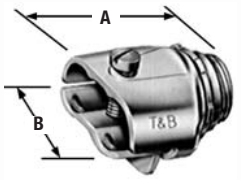
For non-metallic and armored cable

Duplex Clamp Connector

- Malleable iron construction

CAT. NO.	K.O. SIZE	DIMENSIONS (IN.) A	B
291-TB	½"	1 13/32"	1 1/16"

UL File No. E 1383
CSA File No. 2884

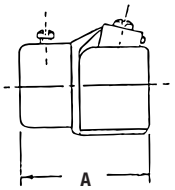


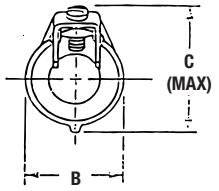
TITE-BITE® design holds flexible metal cable firmly in place with a single screw!

Adapter — EMT to Flex

CAT. NO.	SIZE FLEX TO EMT	DIMENSIONS (IN.) A	B	C
503TB	½" - ½"	1 23/32	1 3/16	1 1/8
504	¾" - ¾"	1 25/32	1 1/16	2 1/8
505-TB	1" - 1"	2 1/32	2 1/16	2 5/8

CSA File No. 8994
UL File No. E-23018





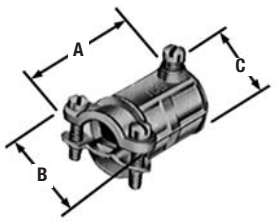
One-piece fitting couples ⅜" flexible metal conduit to ½" EMT!

Combination Coupling

CAT. NO.	SIZE FLEX TO EMT	DIMENSIONS (IN.) A	B	C
449-TB	⅜" - ½"	1 21/32	1 11/32	15/16

Cable opening: max. .656, min. .250

UL File No. E-23018
CSA File No. 2884



Smooth plastic bushing protects conductor insulation from rough edges of armored cable and flexible metal conduit!

Anti-Short Bushing

CAT. NO.	SIZE
390	14-2, 14-3, 12-2
391	14-4, 12-3, 6-1, and 4-1
392	12-4, 10-2, 10-3 and 2-1
393	10-4, 8-2, 8-3, and 1-1
394	8-4, 6-2, 6-3, 4-2, 4-3, and 6-4

Colorized
Temperature Rating: 240° F

CSA File No. 589
UL not applicable.

Fast and easy installation!

Strap

- Elongated bolt hole makes alignment easy, even when holes in mounting surface are off center
- Snap-on design holds strap in place

CAT. NO.	SIZE
65-TB	⅜" Flex

Non-Metallic Sheathed Cable Fittings

Non-Metallic Sheathed Cable

Ref. NEC Article 336

Code defines non-metallic sheathed cable as, "A factory assembly of two or more insulated conductors having an outer sheath of moisture resistant, flame retardant, non-metallic material."

Non-metallic sheathed cable is constructed of insulated conductors (14 to 2 AWG Copper or 12 to 2 AWG Aluminum or Copperclad Aluminum), and an outer non-metallic sheath classified as Type NM or Type NMC.

Non-metallic sheathed cable is provided with or without a bare or insulated equipment grounding conductor. Non-metallic sheathed cable is rated for 60° C service with voltage limitation of 600 volts.

Type NM — has flame-retardant moisture resistant sheath.

Type NMC — has flame-retardant, moisture-resistant, fungus-resistant and corrosion-resistant sheath.

Non-metallic sheathed cable is permitted by code to be used exposed or concealed in one, two or multifamily dwellings or other structures not exceeding three floors. Use of Type NM cable is restricted to dry locations where as Type NMC can be used in dry, moist, damp or corrosive environments.

Non-metallic sheathed cable (both Type NM & NMC) is not permitted to be used as a service conductor, in commercial garages, in hoists or cannot be embedded in cement, concrete or aggregate. With minor exceptions use of non-metallic sheathed cable is also prohibited in theaters or any hazardous locations.

NEC Section 336-5 requires that cable be secured in place by suitable means so as not to injure the cable. Adequate protection for cable is also required when run is exposed, through joists or rafters, through floors, in unfinished basements and accessible attics.

Cable bends are limited to a minimum of five times the diameter of the cable.

NEC 300-4(b) requires that cable be protected from physical damage when it passes through factory or field punched, cut or drilled holes in metal members. A bushing or grommet firmly secured in place is recommended.

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

1. NEC Article 336…Non-Metallic Sheathed Cable (Type NM & NMC)
2. NEC Article 300…Wiring Methods
3. UL 719, ANSI C33.56…Safety Standards for Non-Metallic Sheathed Cable
4. UL 514B, Safety Standards for Outlet Boxes and Fittings
5. NEMA FB-1…Standards Publication. Fittings and Supports for Conduit and Cable Assemblies
6. CEC Section 12-600…Wiring methods (Non-Metallic Sheathed Cable)
7. CSA C22.2 No. 48…Safety Standards for Non-Metallic Sheathed Cable
8. CSA C22.2 No. 18…Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

NOTE:

The materials herein, whether relating to the National Electrical Code, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation of our products. Refer to applicable codes, instructions and industry specifications prior to installation or use.

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Non-Metallic Sheathed Cable Fittings

Suggested Specifications for Non-Metallic Sheathed Cable

- Where non-metallic sheathed cable or flexible cord terminates into a threaded or threadless opening, terminating fittings used shall be approved for the purpose by nationally recognized laboratory, inspection agency or product evaluation organization.
- Terminating fittings shall be of malleable iron, steel or thermoplastic construction designed to provide adequate strain relief and positively prevent damage to jacket or conductor insulation such as series 3300 or 3302M manufactured by Thomas & Betts.

  Ferrous metal fittings shall be electro zinc plated inside/outside including threads and bushed with a nylon insulated throat.

  Thermoplastic material used for connector construction shall be of high impact strength suitable for 105° C/221° F service with a UL flammability rating of 94V-1.
- Where non-metallic sheathed cable passes through either factory or field punched, cut or drilled holes in metallic members, the cable shall be protected by thermoplastic bushing such as series 3210 manufactured by Thomas & Betts. Bushing shall be firmly secured in opening. Nylon bushed metallic fittings such as Thomas & Betts series 1942 may be substituted as required.

Series 3300
Non-Metallic Sheathed Cable and Flexible Cord Connectors (All Plastic)

Series 3302M
Non-Metallic Sheathed Cable and Flexible Cord Connectors (Steel)

Series 3210
Knockout Bushings

Series 1942
Insulated Nipples

Non-Metallic Sheathed Cable Fittings

Non-Metallic Sheathed Cable and Flexible Cord Connectors (All Plastic)

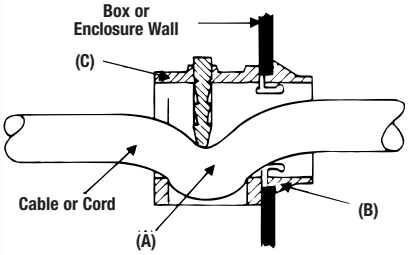
Application

- To connect non-metallic sheathed cable and flexible cord to a box or an enclosure

Features

- Design provides strain relief by partially deflecting cable (A); therefore:
  - (1) Connector will not damage outer covering or jacket of cable, or conductor insulation; designed to give safe trouble free installation
  - (2) Holding power and cable strain relief are not affected by surface finish of outer covering or cable jacket
  - (3) Connector provides superior holding power far in excess of listing agency requirements
- Snap-in one piece design; accommodates variation in knockout dimensions, saves installation time (B).
- All high-impact thermoplastic construction provides:
  - (1) Insulated throat; conductors are protected from abrasion
  - (2) Improved dielectric strength, and eliminates potential shorts
  - (3) Corrosion resistance

3300 Series



- Wide range — reduces inventories
- Connector may be pre-installed in box K.O. or on cable

Standard Material

All high-impact polycarbonate — UL Class 94V-1 suitable for 105° C application

Standard Finish

As molded

Listed/Certified by

UL (UL File No: E-23017)

CSA (Cat. #3201, 3350) for factory installation (LR-589, LR-2884)

Conforms to

UL 514B

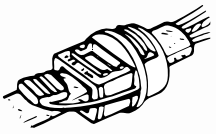
CSA C22.2 #18 (Where applicable)

ANSI C33.84, NFPA 70

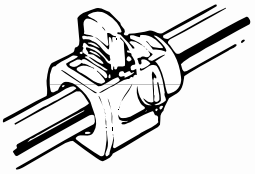
Range

CAT. NO.	CABLE/ KNOCKOUT SIZE	CORD RANGE
3300	½"	10-2, 12-2 & 14-2 type NM Cable. .125" to .300" outside diameter cord
3201 & 3350	½"	10-3, 12-3, 14-3, 10-2, 12-2, 14-2 Type NM Cable; also multiple (2) 12-2 and 14-2 Type NM Cable; .300" to .600" outside diameter cord
3202	¾"	8-3 and 6-3 type NM cables; also Multiple (2) 14-3 and 10-2 Type NM Cable; .500" to .850" outside diameter cord

Typical Installation

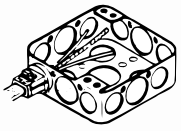


1. *Remove sheath from end of cable (4" or more as required). Insert cable through connector as shown (Cable under button).*

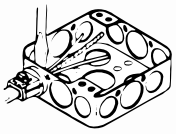


2. *Insert button into cavity.*

3. *With grooved pliers, or parallel jaw type pliers (commercially available) squeeze button into cord or wires as far into connector body as possible.*
   ***NOTE:** It may be necessary to re-adjust pliers to ensure button is properly installed.*



4. *Snap connector into knockout box. If desired, this step can be done prior to Step 1.*



5. *To remove from knockout box depress ears.*

6. *To remove from cable cut connector as shown.*

No locknut required!

Snap-In Connector for Flexible Metal Conduit

- No special tools required
- High-impact polycarbonate construction with steel insert

CAT. NO.	CONDUIT SIZE	K.O. SIZE	DIMENSIONS (IN.) A	B	C	UNIT QUAN.
100-TB	⅜"	½"	27/32	1 13/32	1 31/32	50
100BP	⅜"	½"	27/32	1 13/32	1 31/32	250

100BP sold in multiples of unit package.

Temperature Rating: 105° C

UL 94-V1

CSA File No. 0589

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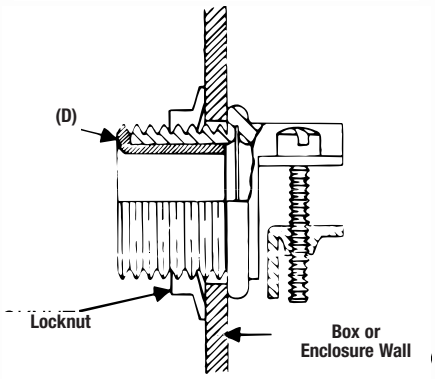
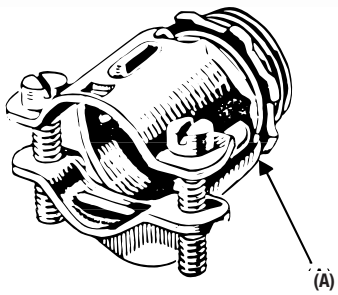
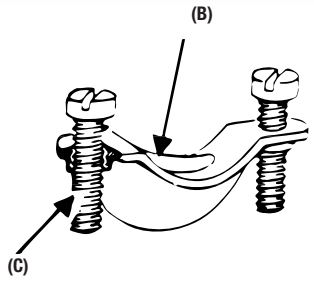
3302M Series
Non-Metallic Sheathed Cable Connector

Typical Installation







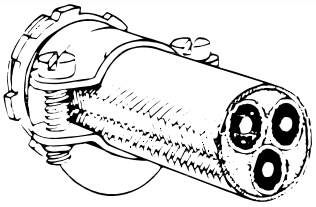
Non-Metallic Sheathed Cable & Flexible Cord Connectors (Steel)

Application

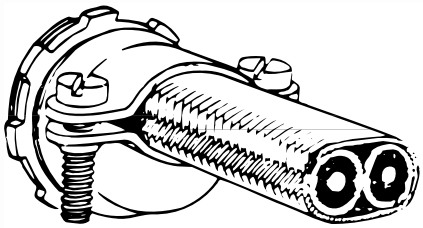
- To connect non-metallic sheathed cable and flexible cord to a box or an enclosure

Features

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



Typical Installation (Flexible Cord)



Typical Installation (NM-Sheathed Cable)

Standard Material

Body . . . . . ½" thru 1" Steel; 1¼" thru 2" Malleable Iron

Clamp . . . . . ½" thru 1¼" Steel; 1¼" thru 2" Malleable Iron

Locknut . . . . . All Steel

Insulator. . . . . Thermoplastic

Standard Finish

All steel and malleable iron parts — Electro Zinc Plated & Chromate Coated

Range

Hub Size . . . . . ½" thru 2" Hubs provided with straight pipe threads (NPS.)

Cable . . . . . 2 #14 thru 4 #4 Type NM

Cable Outside Diameter. . . . .250" to 1.150"

Listed/Certified by

UL (UL File No: E-23017)

CSA (LR-589, LR-2884)

Conforms to

UL 514B

CSA C22.2 No. 18

NFPA 70

NEMA FB1

Federal Standard H-28 (Threads)

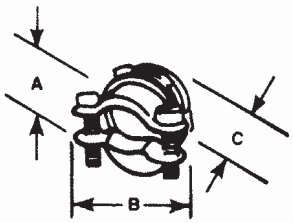
Non-Metallic Sheathed Cable Fittings

Steel or malleable iron.

Two-Screw Connectors

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

- Threaded saddle means screws don't travel or extend beyond connector body as it's clamped to cable
- Extra lip on saddle closes unused part of connector opening
- Steel or malleable iron construction
- Look for the unique T&B blue color ensuring the highest quality fitting



NON-INSULATED CAT. NO.	INSULATED CAT. NO.	K.O. SIZE	UL LISTED & CSA CERTIFIED FOR THE FOLLOWING SINGLE (1) AND PAIRS OF (2) NM & NMC CABLE	UL LISTED & CSA CERTIFIED FOR THE FOLLOWING SERVICE ENTRANCE CABLES	IN. A	IN. B	IN. C	CABLE OPENING MAX.	CABLE OPENING MIN.
3302-TB*	3302M-TB	½"	(1) 2#14, 2#12, 2#10, 3#14, 3#12, 3#10, (2) 2#14, 2#12	2#12 thru 2#4, 3#12, 3#10	31/32	1⅜	1	.590	.250
3303-TB	3303M	¾"	(1) 2#8, 2#6, 3#8 (2) 2#12, 2#10, 2#8, 3#14 (1) 3#8, 3#6, 3#4	2#8 thru 2#1/0, 3#8, 3#6, 2#6 + #8 GND 2#1, 2#1/0, 3#6 thru 3#2,	1¼	1⅝	1 3/16	.750	.530
3304	3304M	1"	(2) 2#8, 3#10 (1) 3#8, 3#6, 3#4	2#4 + #6 GND, 2#3 + #5 GND, 2#2 + #4 GND 3#2 thru 3#2/0, 2#1 + #3	1 15/32	1⅞	1¼	.990	.690
3305	3305M	1¼"	(2) 2#8, 2#6, 2#4, 3#8	GND, 2#1/0 + #2 GND, 2#2/0 + #1 GND	1 15/16	2 7/32	1 9/32	1.320	.850
3306	3306M	1½"	(1) 3#4	3#3/0, 3#4/0, 2#3/0 + #1/0 GND, 2#4/0 + #2/0 GND	2 5/32	2 31/32	1⅝	1.515	.930
3307	3307M	2"	Max. 1.98", Min. 1.15"	—	—	—	—	—	—
3308†	—	2½"	Max. 2.38", Min. 1.5"	—	—	—	—	—	—
3309†	—	3"	Max. 2.88", Min. 1.75"	—	2 25/32	3 3/16	1⅜	1.980	1.150
3310†	—	3½"	Max. 3.38", Min. 2.25"	—	—	—	—	—	—
3311†	—	4"	Max. 3.88", Min. 2.5"	—	—	—	—	—	—

**UL Listed for use with rubber and thermoplastic flexible cords (both single and multiple cords and 2 oval cables).*

†Not UL Listed or CSA certified.

UL Listed for multiple cords and cables.

CSA File No. 2884

UL File No. E-23013 – ½" – 1½"; U.L. File No. E-15170 – 2"

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Conduit Dimensional Data

UL Recommended Dimensions and Weights of Rigid Metal Conduit

TRADE SIZE (IN.)	THDS. PER IN.	I.D. (IN.)	O.D. (IN.)	WALL THICKNESS (IN.)	MIN. WT. AT 100' LENGTHS WITH ONE COUPLING ATTACHED (LBS.)
¼	18	0.364	.540	.088	38.5
⅜	18	0.493	.675	.091	51.5
½	14	0.622	.840	.109	79.0
¾	14	0.824	1.050	.113	105.0
1	11½	1.049	1.315	.133	153.0
1¼	11½	1.380	1.660	.140	201.0
1½	11½	1.610	1.900	.145	249.0
2	11½	2.067	2.375	.154	332.0
2½	8	2.469	2.875	.203	527.0
3	8	3.068	3.500	.216	682.6
3½	8	3.548	4.000	.226	831.0
4	8	4.026	4.500	.237	972.3
4½	8	4.506	5.000	.247	1,150.0
5	8	5.047	5.563	.258	1,313.6
6	8	6.065	6.625	.280	1,745.3

UL Dimensions for Intermediate Metallic Conduit † — Type I (10 ft. lengths)

TRADE SIZE (IN.)	O.D. (IN.) MIN.	O.D. (IN.) MAX.	WALL THICKNESS (IN.)
½	.810	.820	.070*
¾	1.024	1.034	.075*
1	1.285	1.295	.085*
1¼	1.630	1.645	.085*
1½	1.875	1.890	.090*
2	2.352	2.367	.095*
2½	2.847	2.867	.130**
3	3.466	3.486	.130**
3½	3.961	3.981	.130**
4	4.456	4.476	.130**

** (+.015. -.000)*

*** (+.020. -.000)*

† IMC Threads are the same as Rigid Metal Conduit Threads.

UL Dimensions for Intermediate Metallic Conduit — Type II (10 ft. lengths)

TRADE SIZE (IN.)	O.D. (IN.) MIN.	O.D. (IN.) MAX.	WALL THICKNESS (IN.)
½	.825	.840	.085*
¾	1.035	1.050	.085*
1	1.300	1.315	.108*
1¼	1.645	1.660	.108*
1½	1.885	1.900	.108*
2	2.360	2.375	.108*
2½	2.850	2.875	.155**
3	3.475	3.500	.155**
3½	3.975	4.000	.160**
4	4.475	4.500	.160**

** (+.020. -.000)*

*** (+.025. -.000)*

UL Recommended Dimensions and Weight of Electrical Metallic Tubing (EMT)

TRADE SIZE (IN.)	O.D. (IN.)	I.D.* (IN.)	WALL THICKNESS (IN.)	MIN. ACCEPT WT. FT. (LBS.)
⅜	.577 ± .005	.493	.042	.230
½	.706 ± .005	.622	.042	.285
¾	.922 ± .005	.824	.049	.435
1	1.163 ± .005	1.049	.057	.640
1¼	1.510 ± .005	1.380	.065	.950
1½	1.740 ± .005	1.610	.065	1.100
2	2.197 ± .005	2.067	.065	1.400
2½	2.875 ± .010	2.731	.072	2.050
3	3.500 ± .015	3.356	.072	2.500
3½	4.000 ± .020	3.834	.083	3.250
4	4.500 ± .020	4.334	.083	3.700

** Not a requirement — included for information only.*

Conduit Dimensional Data

Knockout (Sliphole) Sizes for Electrical Conduits and Connectors

TRADE SIZE (IN.)	KNOCKOUT DIAMETER NOM.	MIN.	MAX.
¼	.575	.559	.605
⅜	.718	.703	.734
½	.875	.859	.906
¾	1.109	1.094	1.141
1	1.375	1.359	1.406
1¼	1.734	1.719	1.766
1½	1.984	1.958	2.000
2	2.469	2.433	2.500
2½	2.969	2.938	3.000
3	3.594	3.563	3.625
3½	4.125	4.063	4.156
4	4.641	4.563	4.672
4½	5.109	5.063	5.166
5	5.719	5.625	5.750
6	6.813	6.700	6.844

Sizes ¼" thru 1¼" are per UL 514.

Sizes ½" thru 6" per proposed revision to NEMA Engineering Bulletin No. 71, Aug. 1976.

UL Recommended Diameters for Flexible Metal Conduit (Greenfield)

TRADE SIZE (IN.)	MAX. O.D. (IN.)	O.D. (IN.) MIN.	MAX.
5/16	.510	.312	.393
⅜	.610	.375	.645
½	.920	.625	.835
¾	1.105	.812	—
1	1.380	1.000	—
1¼	1.630	1.250	—
1½	1.950	1.500	—
2	2.450	2.000	—
2½	3.060	3.500	—
3	3.560	3.000	—
3½	4.060	3.500	—
4	4.560	4.000	—

UL Recommended Diameters for Liquidtight Flexible Metal Conduit

TRADE SIZE (IN.)	I.D. (IN.) MIN.	MAX.	O.D. (IN.) MIN.	MAX.
⅜	.484	.504	.690	.710
½	.622	.642	.820	.840
¾	.820	.840	1.030	1.050
1	1.041	1.066	1.290	1.315
1¼	1.380	1.410	1.630	1.660
1½	1.575	1.600	1.865	1.900
2	2.020	2.045	2.340	2.375
2½	2.480	2.505	2.840	2.875
3	3.070	3.100	3.460	3.500
3½	3.500	3.540	3.960	4.000
4	4.000	4.040	4.460	4.500

Diameter of Liquidtight Non-Metallic Flexible Conduit

TRADE SIZE (IN.)	I.D. (IN.) MIN.	MAX.	O.D. (IN.) MIN.	MAX.
⅜	.485	.505	.755	.775
½	.620	.640	.910	.930
¾	.815	.835	1.150	1.170
1	1.030	1.055	1.415	1.440
1¼	1.370	1.395	1.800	1.825
1½	1.585	1.620	2.045	2.080
2	2.045	2.080	2.605	2.640

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T&B® Fittings

T&B® Non-Metallic Spiral Cable/Cord Fitting

NEW!

- UL Listed
- Integral strain relief
- Contains an IP68 rating for NEMA 4 enclosures

For more information, see **page A-143**.

T&B® Silver Grip® Tray/Cord Fitting

NEW!

- Safe, cost-effective choice for hazardous locations
- Hand-tightens — no tools required
- Aluminum — ½" to 2" and stainless steel up to 1"

For more information, see **page A-98**.

T&B® Aluminum Ranger® Cord Fitting

NEW!

- Largest range-taking cord fitting
- Hex gland for easy grip with channel locks
- Slotted design for easy tightening in tight spaces

For more information, see **page A-136**.

T&B® Stainless Steel Liquidtight Fittings

NEW!

- Only Thomas & Betts offers this UL® Listed stainless steel liquidtight fitting
- Ideal for food processing, wastewater, petrochemical, salt water and pharmaceutical applications
- Available in straights, 45˚ and 90˚ from ⅜" to 2"

For more information, see **page A-110**.

T&B® Series 35 Conduit Bodies

NEW!

- Completing the entire range of iron conduit bodies
- Available in C, LB, LL, LR, X, TB and T configurations
- Steel covers offer raised dome for additional wiring room

For more information, see **pages A-38 – A39**.

T&B® BlueKote™ Form 7 and Form 8 Conduit Outlet Bodies

NEW!

- Triple-layer protection – including two layers of epoxy – stops corrosion in its tracks
- BlueKote™ internal coating reduces force required to pull wires
- Cover with integral gasket reduces inventory and chance of misplacing a separate gasket

For more information, see **pages A-37 – A-47**.

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T&B® GUP Explosion Proof Box

- Compact design ideal for gas station construction
- Class I, Div 1 & 2 Group C & D rated
- O-rings are standard on all boxes

NEW!

For more information, see **page A-75**.

T&B® Flexible Aluminum Conduit and Aluminum Fittings

NEW!

- Aluminum conduit and fittings engineered to be light and corrosion resistant
- The lightweight solution for mission-critical applications

For more information, see **pages A-112 – A-113**.

Color-Keyed® Cast-Copper Reducing Splices

- Ideal for telecom, commercial, and industrial MRO
- Tin-plated, sand-cast copper construction
- Easier to install and insulate than contour designed reducing splices

NEW!

For more information, see **page B-42**.

Color-Keyed® Narrow-Tongue Lugs

NEW!

- Ideal for confined-space terminations
- Consistent narrow width from barrel to tongue
- Double-chamfered barrel eases wire insertion

For more information, see **page B-23**.

Color-Keyed® KUBE™ Connectors Multi-Tap

NEW!

- Lowest installed cost for the application
- Individual connectors can be rotated 360° on rod on rod for multi-directional connections
- Versatile, modular design

For more information, see **page B-58 – B-59**.

Color-Keyed® KUBE™ Connectors Flags and Tees

NEW!

- Makes economical, field-constructible 90° and T electrical connections
- Offers thousands of connection possibilities, including multi-circuit configurations
- Used with standard Color-Keyed® lugs and splices

For more information, see **page B-60**.

Color-Keyed®

Color-Keyed® 6-Ton and 14-Ton Hydraulic Tools

NEW!

- Ergonomically designed for highest efficiency in both manual and battery-powered tools
- 180° rotating heads
- Crimping and cutting tools

For more information, see **pages B-76 – B-92**.

Battpac® Battery-Powered Compression and Cutting Tools

NEW!

- Hermetically sealed unit protects motor against environment/elements
- Broadest family of battery-powered tools
- Ideal for commercial and industrial connector and grounding installations
- Robust design for years of use

For more information, see **pages B-76 – B-92**.

Color-Keyed® Metric Connectors

NEW!

- Complete line of connectors for use with metric wire sizes
- Crimping tools and dies available for easy installation

For more information, see **pages B-96 – B-99**.

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Blackburn® AMT Connectors

NEW!

- Dual-rated aluminum connectors through 750kcmil
- Superior insulation that lasts the life of the connector
- UV-resistant material impedes deterioration from outdoor applications

For more information, see **pages C-55 – C-59**.

Blackburn® Power Distribution Blocks

NEW!

- Compatible with both copper and aluminum conductors
- Insulated housing provides fast, clean, safe installation and controlled dielectric strength
- Easily installed and position locked with DIN rail or screw mounting

For more information, see **pages C-60 – C-61**.

Blackburn® Direct Burial Splice Kit

NEW!

- Splice cables up to 600 volts
- UF Kit features a 4-in-1 connector to support four-conductor, three-phase plus neutral or single-phase wiring systems
- Non-UF Kit offers an easy-to-install, one-piece, aluminum-alloy connector

For more information, see **page C-71**.

Ty-Rap® Multi-Color Ties

NEW!

- Infinite adjustability with the exclusive "Grip of Steel" lock for a perfect fit
- Great for matching equipment colors or identification
- 100 standard ties in 10 colors (10 of each)

For more information, see **page D-4**.

Ty-Rap®

Ty-Rap® Tote

NEW!

- Fast and convenient way to dispense Ty-Rap cable ties while on the jobsite
- Resealable hook-and-loop flap for easy refill
- Handy belt clip and chrome steel loop for easy attachment

For more information, see **page D-5**.

Ty-Rap® Detectable Cable Ties

NEW!

- Detectable by metal detectors, x-ray equipment and vision systems
- The Ty-Rap® "The Grip of Steel®" locking device offers superior performance over single piece ties
- Half the price of stainless steel fasteners

For more information, see **page D-14.**

Ty-Rap® Heat Stabilized/ UV Resistant Ties

NEW!

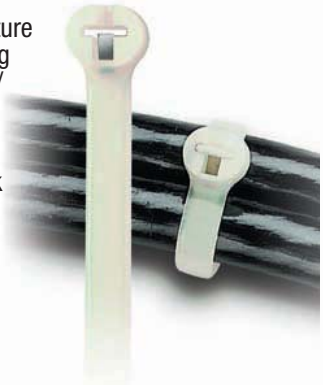
- Made of heat stabilized (up to 221˚ F) and UV-resistant nylon
- High-performance stainless steel locking device with infinite adjustability
- Quicker to install and less expensive than metallic fasteners

For more information, see **page D-15**.

Ty-Rap® Extra High-Temp Ties

NEW!

- Made of extra high-temperature nylon with temperature rating from –40˚ F/-40˚ C to 302˚ F/ 150˚ C
- Infinite adjustability with the exclusive "Grip of Steel" lock
- Quicker to install and less expensive than metallic fasteners



For more information, see **page D-15**.

Ty-Rap® Coated Stainless Steel Ball-Lock Cable Ties

NEW!

- Ideal for offshore drilling, petroleum refining, shipbuilding, food and beverage and pharmaceutical processing
- 316 grade (marine-grade) stainless steel construction
- Fully coated with polyester to resist corrosion, UV radiation, temperature extremes, chemicals, impact, abrasion and cracking

For more information, see **page D-27**.

Ty-Rap® Cable Tie Installation Tool

NEW!

- 360˚ rotating nose enables operation from any position
- Front-access tension-adjustment wheel permits fast, easy changes
- Lightweight ergonomic design dramatically reduces user stress and strain

For more information, see **page D-56**.

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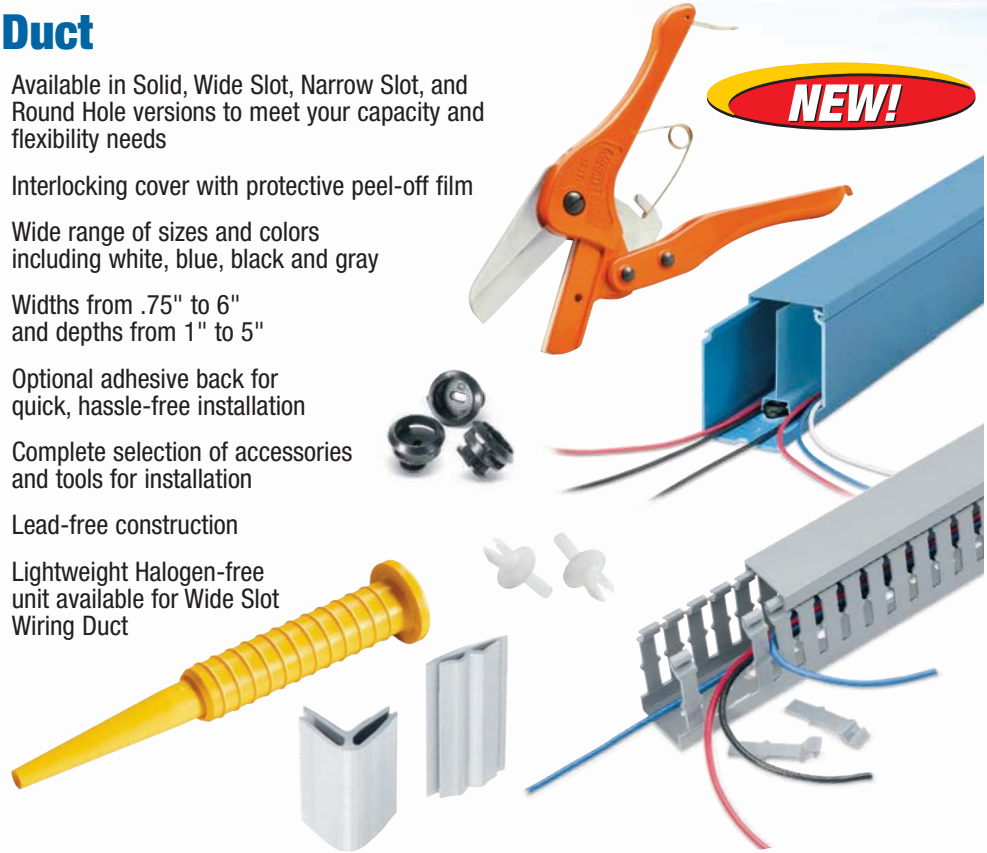
Ty-Duct® Wiring Duct

- Available in Solid, Wide Slot, Narrow Slot, and Round Hole versions to meet your capacity and flexibility needs
- Interlocking cover with protective peel-off film
- Wide range of sizes and colors including white, blue, black and gray
- Widths from .75" to 6" and depths from 1" to 5"
- Optional adhesive back for quick, hassle-free installation
- Complete selection of accessories and tools for installation
- Lead-free construction
- Lightweight Halogen-free unit available for Wide Slot Wiring Duct



For more information, see **pages E-1 – E-26**.

Sta-Kon® Heat-Shrink Terminal Kit

- Heat shrink insulation creates a fully sealed protected connection
- Self-insulated
- Includes most popular butt splices and ring terminals, a wire stripper, ratchet crimp tool and butane torch

For more information, see **page F-23**.

Sta-Kon® Bench/ Portable Air Crimp Tools

- Heavy-duty air crimp tools
- Expanded crimp ranges from 22-6 AWG
- Uses standard, hand tool dies for consistent crimping

For more information, see **pages F-38**.

Sta-Kon® Luminaire Disconnect

- Meets new UL requirements for fluorescent fixtures and ballasts
- Enables safe servicing of fluorescent light fixtures without disconnecting power
- UL Listed, CSA Certified, NEC® 410.73(G) 2005 edition compliant

For more information, see **page F-27**.

Sta-Kon® & Catamount®

Sta-Kon® Parallel Splices

NEW!

- Offers a cost-effective solution for splicing wires
- Reliable, long-term UL listed connection at a low installed cost
- Resistant to corrosion and preserves the electrical integrity of the wires

For more information, see **page F-20**.

Sta-Kon® Expanded Entry Ring Terminals

NEW!

- Accepts #8 and #6 stranded wire
- Expanded entry insulator
- Installs easily with Sta-Kon ERG2007 or TBM6 ratchet tools for fast, reliable termination

For more information, see **page F-8**.

Sta-Kon® Sta-Org™ Terminal and Splice Organizer Kit

NEW!

- Ideal for contractors, OEMs or any other user of terminals and splices
- Slips in a tool box or sits on your bench — only 6.6"L x 3" dia.
- Bench-mountable (hardware included)

For more information, see **page F-31**.

Sta-Kon® Disconnect Installation Tool

NEW!

- Perfect for wire-harness assemblers and panel builders
- One-of-a-kind, patented design
- Dual-ended

For more information, see **page F-27**.

Sta-Kon® High-Temp Wire Joints

NEW!

- Rated for temperatures up to 150˚ C (302˚ F), 600V maximum
- Brazed copper sleeve prevents separation of connection during crimping

For more information, see **page F-21**.

Catamount® Vinyl-Insulated Butt Splices

NEW!

- Step down from two wires to one wire
- Splice existing wiring to auxiliary equipment with different sized wire

For more information, see **page F-51**.

Catamount® TwistTail™

NEW!

- Unique, patent-pending design for quick, easy, tool-less installation
- After installing, remove excess tail with a simple “bend, bend again and twist” motion

For more information, see **page D-59**.

Thomas&Betts
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Tel: 888.862.3289

E-Z-Code® EZL-100 Printer

NEW!

- 5 print sizes: XS, S, M, L & XL
- Horizontal and vertical printing
- Memory stores up to 8 custom labels
- Auto-shutoff turns power off to save battery life
- Supports up to 4 lines per label
- Prints Code 39 and 128 barcodes

For more information, see **page H-4**.

E-Z-Code® EZL Printer Kit

- Easy, compact and flexible printing system
- Includes case, printer, two label cassettes, batteries and AC adapter
- Clear, color and heat-shrink media cartridges

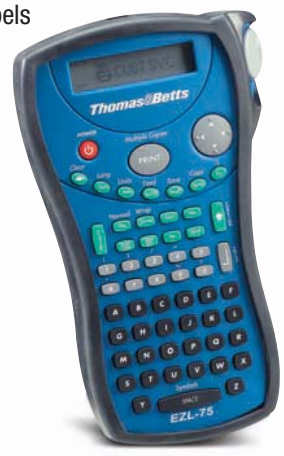
NEW!

For more information, see **page H-4**.

E-Z-Code® EZL-75 Thermal Label Printer

NEW!

- Easy, affordable printing of no-smear wire markers and labels
- Hot keys access more than 150 common security, location and voice/data/video terms
- One-touch flagging for wires and cables and fixed-length labels for faceplates and security panels
- Prints high-quality labels that stick and last — on polyester, nylon or heat-shrink tape

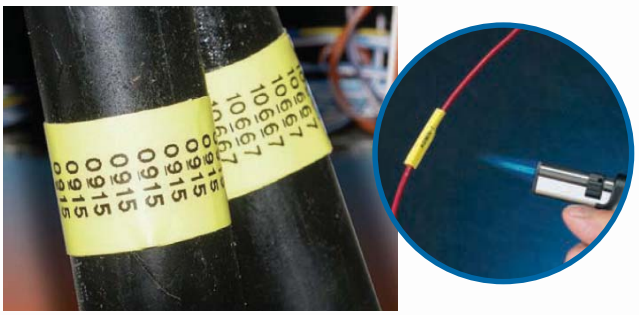


For more information, see **page H-5**.

E-Z Code® EZL-100 and EZL-75 Heat-Shrinkable Labels

- Polyolefin material, 3:1 shrink material in yellow and white
- Easy-to-load cassette
- Available sizes: ¼", ⅜", ½", ¾"

NEW!



For more information, see **page H-5**.

E-Z-Code® & Shrink-Kon®

E-Z-Code® PC Label Software

- Downloadable software updates enable the user to download new templates and software quickly and easily
- Import text from Excel or text file, or graphics from your PC for a professional look
- What-you-see-is-what-you-get technology enables you to see exactly what prints

NEW!

For more information, see **page H-6**.

E-Z-Code® EZL-100 and EZL-75 Clear and Colored Labels

- Feature EZ-Peel split back for ease of use and industrial-strength adhesive
- Easy-to-load cassette
- Available sizes: ½", ¾"

NEW!

For more information, see **page H-5**.

Shrink-Kon® Self-Fusing Insulation Tape

NEW!

- Quick and easy insulation — no heat or adhesive required
- Just two layers form a moisture-proof, abrasion-resistant, dielectric seal
- Creates an immediate, permanent bond even when wet

For more information, see **page I-18**.

Shrink-Kon® EZL Torch

NEW!

- Runs on widely available standard butane fuel
- Automatic piezo ignition offers quick, easy lighting
- Ergonomic rubber grip and light weight to ensure user comfort
- 2,500° F output capacity satisfies virtually any heat-shrink, brazing or soldering requirement

For more information, see **page I-21**.

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