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Thomas@Betts

Introduction

Thomas & Betts ... The Complete Product Line

Since the turn of the century, Thomas & Betts has been a recognized leader in electrical fittings. Industry standards such as Chase® Nipples and Erickson® Couplings were introduced by Thomas & Betts and are still registered trademarks. This leadership continues. Here's why.

Innovative Designs

The real test of product design of electrical fittings lies in two areas: Job-suited installation and life of the job reliability. Thomas & Betts Fittings provide both because we listen. We listen to problems and suggestions from the field. Most of the products in this section result from the good suggestions of knowledgeable electrical people. Many were 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 which meet the requirements of the National Electrical Code as well as the listing requirements of the Underwriters' 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

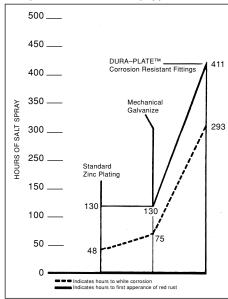
It is a function of purchase cost, availability, installation advantage, and performance. Lower installed cost comes in every carton of Thomas & Betts Raceway Fittings.



Tables and Specifications – Rigid Metal Conduit/Intermediate Metal Conduit Fittings

DURA-PLATE™ Finish – Corrosion Resistant Finish Protects Fittings in Harsh Environments

Comparative Resistance to Salt Spray per ASTM B-117



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 which insures a uniform thickness of protective material over the entire part. Conventional hot dip coatings deposit an uncontrolled build-up of material on the part, especially in threaded areas. This excess build-up must be removed to allow mating parts to function.

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

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

In addition to the uniformity of the coat-

ing, the distinctive gold color of the plating allows 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



140 Series 141AL Series



106 Series

Locknuts

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 insuring 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

%" 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
& Chromate Coated
All Aluminum locknuts degreased

Range

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

Listed/Certified by:

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

Conforms to:

U.L. 514B CSA C22.2 No. 18 NEMA FB1 NFPA 70-1999 (ANSI) Federal Specification replaced by A-A-50553 Federal Standard H-28 (Threads)

"Case Hardened Locknuts"

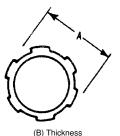
Case hardened locknuts make fittings faster and easier to install. Case hardened locknuts do not slip or turn thereby protecting the biting edge. Case hardened locknuts bite through paint into the enclosure providing excellent continuity of ground (typical T&B/Thomas & Betts fitting with case hardened 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 insuring excellent ground continuity.



Rigid and Intermediate Metal Conduit Fittings







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

Locknuts

Cat. No.		Cat. No.		ons (in.)
Stl. or M.I.	Alum.	Size	A	В
139*	-	1/4"	3/4	%4
140*	-	3/8"	15/16	%4
141**	141AL	1/2"	1%4	5/32
142**	142AL	3/4"	1%	3/16
143	143AL	1"	111/16	13/64
144	144AL	11⁄4"	25/32	13/64
145	145AL	1½"	21/2	13/64
146	146AL	2"	3	7/32
147	147AL	21/2"	3%6	13/32
148	148AL	3"	43/16	13/32
149	149AL	3½"	413/16	15/32
150	150AL	4"	5 %6	15/32
151	151AL	4½"	515/16	17/32
152	152AL	5"	61/2	17/32
153	153AL	6"	7¾	19/32

Cat. No.

106t

107†

108

109

110

111

112†

113†

114†

115†

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

Size

1/2"

3/4"

11/4"

1½"

21/2"

3½"

2"

3"

4"

Available with DURA-PLATE® Finish.

Bonding Locknuts

U.L. File E-23018

CSA File No. 2884



В

.125

.140

.170

.170

.170

.187

.375

.375

.438

.438

Dimensions (in.)

Α

13/8

15%

115/16

25/32

21/2

313/32

413/16

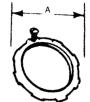
429/32

51/32

3







(B) Thickness

Steel or malleable iron (steel thru 2").

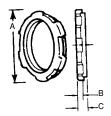
Use anywhere an ordinary locknut is installed to insure positive bonding of conduit to box and prevent loosening due to vibration. Also can be used for Service Entrance applications in conformance with Code. T&B rigid conduit and E.M.T. (thinwall) fittings comply with Federal Specification WF 408c.



† Not CSA certified. Available with DURA-PLATE® Finish. U.L. File No. E-3060 CSA File No. 638







Molded Santoprene Seal Color: Blue

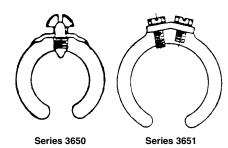
Provides positive seal against water and oil. For use with rigid and intermediate metal conduits, or fittings to provide watertight or rain tight seal at all enclosures.

Sealing L	ocknuts			
Cat.			Dimensions (in.)	
No.	Size	A	В	C
141SL	1/2	1.140	1/8	1/4
142SL	3/4	1.420	5/32	%32
143SL	1	1.770	11/64	%32
144SL	11⁄4	2.281	11/64	5/16
145SL	1½	2.598	11/64	%32
146SL	2	3.175	3∕16	19/64

U.L. File No. E-23018 CSA File No. 2884

^{*} Hex shape ** Case hardened locknuts

Rigid and Intermediate Metal Conduit Fittings



Bonding & Grounding Wedges

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:

U.L File #E3060 CSA File #638

Conforms to:

U.L. 467 CSA C22.2 No. 41 NFPA-70 1999 (ANSI) Federal Specification W-F-406



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

Update existing installations to meet code requirements for bonding (NEC Sect. 250-72e) without disconnecting wiring. Use on new wiring also.

- 1. Loosen bushing ... position wedge.
- 2. Tighten bushing and bonding screw.

Grounding Wedges			
Cat. No.	Size		
3650	1∕2"		
3651	3/4"		
3652	1"		
3653	11/4"		
3654	1½"		
3655	2"		
3656	2½"		
3657	3"		
3658	3½"		
3659	4"		
3661	5"		
3662	6"		

U.L. 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.	Conduit	Dimens	ions (in.)	
No.	Size	A	B ± ¹ /64	
5302	1/2"	111/64	3/4	
5303	3/4"	1½	15/16	
5304	1"	1¾	111/64	
5305	11/4"	2%4	1½	
5306	1½"	2&	1¾	
5307	2"	2 ⁵ %4	215/64	
5308	2½"	3 7⁄₁6	243/64	
5309	3"	45⁄64	319/64	
5311	4"	5%2	419/64	

NEMA 3R, 4, 6 & 13 U.L. File No. E-13938 CSA File No. 2884



Rigid and Intermediate Metal Conduit Fittings

Mounting screw with nylon locking patch has a cone point to lock bushing securely in place. Integral grounding lug enhances ground continuity. Added ground wire range taking reduces inventory. Accepts copper or aluminum ground wires. I Insulating nylon surface is 150°C rated and covers top of bushing, including lug corners.

> Angle of lug screw improves accessibility when securing grounding wire.

access when ground the state of the state of

Insulator surface features a rounded design to reduce drag and prevent abrasion during wire pulling. Cast "threads" opposite the mounting screw tighten the fit dur-

ing installation.

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 is designed not to fall off or get lost.

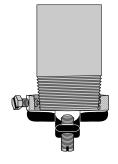
Innovative design improves performance.

The Blackjack® bushing provides superior ground continuity.

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



The Blackjack bushing's conepoint mounting screw bites securely into both



threaded and non-threaded rigid conduits. And the Blackjack bushing's nylon locking patch is designed to prevent the screw from loosening due to vibration.

Reduce inventory.

Because the Blackjack Grounding Bushing is designed for threaded and non-threaded conduits, and the ground lugs are designed to handle an extended range, the number of parts in inventory is reduced by up to twothirds without losing any application coverage.





Blackjack® - Conduit Grounding Bushing

Lug Screw: 14-4: Slotted 14-2/0: Slotted

6-4/0: Internal Hex Drive

Standard Material/Finish

Body: Malleable Iron or Aluminum Mounting Screw: (1/2"-2") Stainless Steel,

(21/2"-6") Brass

Lug Screw: Stainless Steel

Finish: Zinc Plated or Mechanical Galvanized

Range

Conduit: 1/2" thru 6" threaded or thread-

less rigid/IMC

Wire Range: #14 AWG to 4/0 AWG

CU/AL

Listed/Certified by:

U.L File #E3060 CSA File #LR2884

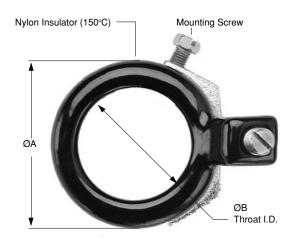
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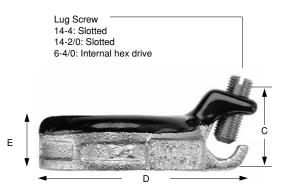
U.L. 514B & U.L. 467 CSA C22.2 No. 18 & CSA C22.2 No. 41



Rigid and Intermediate Metal Conduit Fittings

Blackjack™ Grounding Bushing technical information





For Threaded & Threadless Rigid & IMC Conduit.

Zinc Plated Malleable Iron	Aluminum	Conduit Size	ØA Max.	ØB Min. Throat I.D.	C Max.	D Max.	E Max.	Wire Range
BG050-14-20	BGA050-14-20	1/2"	1.251	.569	1.181	2.134	.696	14-2/0
BG050-14-4	BGA050-14-4	1/2"	1.251	.569	1.027	1.940	.696	14-4
BG075-14-20	BGA075-14-20	3/4"	1.533	.772	1.221	2.414	.696	14-2/0
BG075-14-4	BGA075-14-4	3/4"	1.533	.772	1.030	2.168	.696	14-4
BG100-14-20	BGA100-14-20	1"	1.783	.993	1.181	2.581	.696	14-2/0
BG100-14-4	BGA100-14-4	1"	1.783	.993	1.027	2.368	.696	14-4
BG125-14-20	BGA125-14-20	11⁄4"	2.220	1.319	1.181	2.987	.759	14-2/0
BG150-14-20	BGA150-14-20	11/2"	2.470	1.553	1.181	3.236	.696	14-2/0
BG200-14-20	BGA200-14-20	2"	2.830	2.010	1.181	3.766	.696	14-2/0
BG250-14-20	BGA250-14-20	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	BGAT600-6-40	6"	7.199	6.009	1.524	8.409	.978	6-4/0

Suggested Specifications

Insulated grounding and bonding bushing

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.

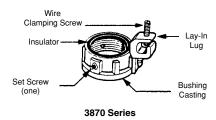
Grounding and bonding bushings used shall be approved for the purpose and
(i) Shall be of malleable iron/steel/aluminum construction adequately protected against corrosion.
(ii) Bushing insulator shall be listed or certified for 150°C/302°F application with a flammability rating of 94V-0. Insulator must be positively locked in place.

Please consult factory for mechanically galvanized.



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.

Standard Material/Finish:

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

Application with 94V-0 flammability





Threaded Insulated Grounding Bushing

Cat. No.	Conduit Size	Bushing Dia.	Throat Dia.	Lug Length	Swing Radius	Bushing Height	Wire Range AWG CU/AL
3870-TB	1/2	1.125	.560	1.310	1.212	.657	14-4
3861	1/2	1.125	.560	1.675	1.402	.657	8-2/0
3871-TB	3/4	1.420	.742	1.310	1.360	.660	14-4
3862	3/4	1.420	.742	1.675	1.550	.660	8-2/0
3872	1	1.770	.944	1.310	1.535	.735	14-4
3882	1	1.770	.944	1.675	1.725	.735	8-2/0
3873	11/4	2.190	1.242	1.310	1.745	.735	14-4
3883	11/4	2.190	1.242	1.675	1.935	.735	8-2/0
3874	11/2	2.468	1.449	1.310	1.884	.770	14-4
3884	11/2	2.468	1.449	1.675	2.074	.770	8-2/0
3875	2	3.031	1.860	1.310	2.165	.770	14-4
3889	2	3.031	1.860	1.675	2.355	.770	8-2/0
3876	21/2	3.516	2.222	1.310	2.408	.940	14-4
3886	21/2	3.516	2.222	1.675	2.598	.940	8-2/0
3993	21/2	3.516	2.222	2.230	2.928	.940	6-4/0
3877	3	4.234	2.761	1.310	2.767	.975	14-4
3887	3	4.234	2.761	1.675	2.957	.975	8-2/0
3994	3	4.234	2.761	2.230	3.287	.975	6-4/0
3878	31/2	4.781	3.193	1.310	3.040	.975	14-4
3863	31/2	4.781	3.193	1.675	3.230	.975	8-2/0
3995	31/2	4.781	3.193	2.230	3.560	.975	6-4/0
3879	4	5.328	3.623	1.310	3.314	.980	14-4
3864	4	5.328	3.623	1.675	3.504	.980	8-2/0
3996	4	5.328	3.623	2.230	3.834	.980	6-4/0
3880	5	6.328	4.542	1.310	3.814	.985	14-4
3865	5	6.328	4.542	1.675	4.000	.985	8-2/0
3998	5	6.328	4.542	2.230	4.334	.985	6-4/0
3881	6	7.406	5.458	1.310	4.353	1.200	14-4
3866	6	7.406	5.458	1.675	4.543	1.200	8-2/0
3999	6	7.406	5.458	2.230	4.875	1.200	6-4/0

Temperature rating 150°C.

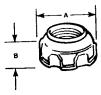
Meets Coast Guard Regulation CG293

Available with DURA-PLATE® Finish.

For mechanically galvanized iron, add suffix-MG.



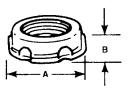
Rigid and Intermediate Metal Conduit Fittings



Nylon insulated metallic bushings

Steel or malleable iron (Steel thru 1½")

The National Electric Code paragraph 373-6C calls for protection of ungrounded conductors by means of smoothly rounded insulating surfaces at the entrance to raceways, pull boxes, junction boxes, etc. T&B insulated throat fittings, recognizable by the distinctive trademarked blue insulating liner in the throat, meet and surpass this Code requirement. In addition, T&B insulated fittings also reduce wire pulling effort by as much as 50%. Temperature rating 105°C.



Aluminum, steel or malleable iron (steel thru $1\frac{1}{2}$ ").

Smoothly rounded shoulder covers end of conduit: broad flange covers knockout hole. High ribs make tightening easy with fingers or with wrench. ½" - 1½" size, formed in steel, have extra smooth shoulders. Locknut-type base gives improved bonding and resists loosening under conditions of vibration.



All Plastic Insulating Bushings

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

Insulate	ed Throat Fitting	js <u> </u>		
Cat.			Dimensions (in.)	
No.	Alum.	Size	A	В
1222	1222AL	1/2"	11/32	29/64
1223	1223AL	3/4"	1%2	31/64
1224	1224AL	1"	119/32	11/32
1225	1225AL	11⁄4"	1 ¹⁵ ⁄ ₁₆	21/32
1226	1226AL	1½"	2¾6	23/32
1227	1227AL	2"	211/16	7/8
1228	1228AL	2½"	3¾6	31/32
1229	1229AL	3"	327/32	15/16
1230	1230AL	3½"	4 1/16	1 1/16
1231	1231AL	4"	47/8	13/32
1232†	1232AL†	41/2"	-	-
586	586AL	5"	531/32	1%2
587	587AL	6"	7¾6	111/32

† Not CSA Certified

Catalog series 1222 thru 1232, 586 and 587 are available in aluminum. Add suffix AL to Cat. No.

134AL

The aluminum series are not CSA certified.





Metallic Bushings					
Cat. No.			Dimensi	ion (in.)	
Stl. or M.I.	Alum.	Size	A	В	
122	122AL	1/2"	11/32	13/32	
123	123AL*	3/4"	11⁄4	7/16	
124	124AL**	1"	1%	1/2	
125-TB	125AL	11/4"	129/32	%16	
126	126AL	1½"	25/32	19/32	
127	127AL	2"	221/32	5/8	
128	128AL	2½"	3¾6	3/4	
129	129AL	3"	327/32	13/16	
130-TB	130AL	3½"	4%	15/16	
131-TB	131AL	4"	415/16	1	
132-TB	-	4½"	5 7⁄16	15/64	
133-TB	133AL	5"	6	13/16	

^{*} Not U.L. Listed or CSA Certified

134-TB

Available with DURA-PLATE® Finish.

U.L. File No. E-23018

CSA File No. 2884



11/4



Plastic Insu	lating Bushings		
Cat.		Dimens	ions (in.)
No.	Size	A	В
222-TB	1/2"	11/16	3/8
223-TB	3/4"	1%2	13/32
224	1"	1%6	%6
225-TB	11⁄4"	129/32	%6
226	1½"	21/32	%6
227	2"	225/32	5/8
228-TB	2½"	3%	3/4
229-TB	3"	4 1/16	3/4
230-TB	3½"	45%	7∕8
231	4"	51/8	7∕8
232	4½"	511/16	1
233	5"	65⁄16	1
234	6"	7 1/16	1

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



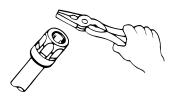
^{**} Not CSA Certified

Rigid and Intermediate Metal Conduit Fittings



TRIB50 Series

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



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

Insulating Bushing

(For Threadless Rigid Conduit and Intermediate Metal Conduit)

Application

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

Features

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

Standard Material

High impact thermoplastic listed for 105°C (221°F) application. Flammability Classification 94 V-1.

Standard Finish

As molded.

Range

½" through 4" conduit

Listed by:

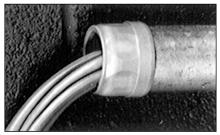
U.L. (U.L. File No. E-13938) CSA (LR-2884, LR-4484)

Conforms to:

U.L. 514B NFPA 70-1999 (ANSI)





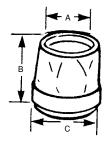


Pop-on Bushing

Threadless Rigid (and IMC) Insulating Bushings.

Insulated	Metallic Bu	shing		
Cat.			Dimensions (in.)	
No.	Size	A	В	C
TRIB-50	1/2"	19/32	1%2	11/16
TRIB-75	3/4"	25/32	1 ²⁵ ⁄64	11⁄4
TRIB-100	1"	1	1½	1%
TRIB-125	11/4	15/16	1%	1 ⁵ %4
TRIB-150	11/2"	117/32	121/32	211/64
TRIB-200	2"	131/32	1 ¹³ / ₁₆	211/16
TRIB-250	2½"	223/64	2	31/4
TRIB-300	3"	25%4	21/32	329/32
TRIB-350	3½"	3%	25/16	42%4
TRIB-400	4"	327/32	213/32	5

I.M.C. sizes ½" thru 4" U.L. Rated flame retardant 94V-1. U.L. File No. E-13938 CSA File No. 2884





Rigid and Intermediate Metal Conduit Fittings



3210 Series

Knockout Bushings

Application

• To bush knockout openings in metal boxes or enclosures.

Features

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

Standard Material

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

Standard Finish

As molded.

Range

.875" through 2.469" nominal diameter knockout opening (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.

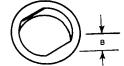
.520

Listed/Certified by:

U.L. (U.L. File No. E-3803) CSA (LR-589, LR-4484)

Conforms to:

U.L. 514B CSA C22.2 No. 18 NFPA 70-1999 (ANSI)



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



* Per U.L. and NEMA standards. Refer to "KNOCKOUT" table on page A14. Oxygen index >28°

2.469

U.L. 94V-1 U.L. File No. E-3803 CSA File No. 589

3215

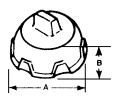


Rigid and Intermediate Metal Conduit Fittings









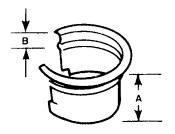
Makes a workmanlike seal against grit, plaster, and mischief. Removable with pliers. As shown ½" through 1½" in steel: 1½" and 2" in malleable iron.

Capped Bushings				
Cat.		Dimensio	on (in.)	
No.	Size	A	В	
1460	1/2"	11/32	13/32	
1461	3/4"	11⁄4	7/16	
1462	1"	1%	1/2	
1463	11⁄4"	129/32	9/16	
1464	1½"	25/32	19/32	
1465	2"	221/32	5/8	

U.L. File No. E-23018 CSA File No. 2884







Slip over wires - insert into bushing – snaps into place

High dielectric nylon, 105°C.

An insuliner sleeve snapped into a regular bushing makes a U.L. Listed insulated bushing. For standard rigid conduit, E.M.T. (thinwall conduit) or any standard bushed outlet. Especially suitable for use with flexible metallic conduit.

Converts ordinary bushing to code approved insulated bushing without disturbing wiring.

INSULINER® Sleeves						
Cat.		Dimens	ion (in.)			
No.	Size	A	В			
422	1/2"	5%	.025			
423	3/4"	11/16	.025			
424	1"	7∕8	.025			
425	11/4"	1	.030			
426	1½"	1	.030			
427	2"	11/8	.030			
428	2½"	11⁄4	.040			
429	3"	1½	.040			
430	3½"	125/32	.055			
431	4"	21/32	.055			
433	5"	2½	.070			
434	6"	2½	.070			

Oxygen index >28° U.L. File No. E-23018 CSA File No. 589



Rigid and Intermediate Metal Conduit Fittings



1451 Series

Knockout Plugs

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 U.L.-94) thermoplastic construction.

Standard Material

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

Standard Finish

As molded.

Range

.875" through 2.469" Nominal Diameter Knockout opening (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:

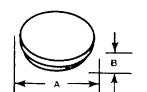
U.L. (U.L. FILE No. E13938) CSA (LR589)

Conforms to:

U.L. 514B NFPA 70-1999 (ANSI)







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

Knock-	out Plugs		
Cat.		Dimensio	ons (in.)
No.	Size	A	В
1451	1/2"	1.060	.400
1452	3⁄4"	1.300	.400
1453	1"	1.590	.400
1454	11⁄4"	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. U.L. File No. E-13938 CSA File No. 4484

Rigid and Intermediate Metal Conduit Fittings

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 application; 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.

Standard Material

Polyethylene

Standard Finish

As molded

Listed/Certified by:

CSA (LR2884, LR4484)

Conforms to:

U.L. 514B CSA C22.2 No. 18 NFPA 70-1999 (ANSI) NEMA FB1



Economically seal out grout and plaster from any fitting or raceway conforming to CSA dimensional tolerances. Made of flexible plastic, they push into place and are held fast by pressure against internal surface of fitting or raceway. Eliminates need for separate capped bushing or steel penny and bushing.

Push-Penny® Plugs Cat. Size No. 1470 1/2" 3/4" 1471 1472 11/4" 1473 1474 1½" 1475 2" 1476* 21/2" 1477 3" 1478* 3½"

4"

1479*



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

Pennies – Steel		
Cat. No.	Size	
815-TB	1/2"	
816	3/4"	
817	1"	
818	11/4"	
819	1½"	
820	2"	
821	2½"	
822	3"	
824	3½"	
823	4"	

U.L. not applicable CSA File No. 2884



^{*} Not CSA Certified CSA File No. 2884 UL not applicable

Rigid and Intermediate Metal Conduit Fittings



1942 Series 842AL Series (Non Insulated)

Nipple (CHASE® Nipple)

Application

- To effectively bush factory or fieldpunched, cut, or drilled holes in metal boxes or enclosures.
- To couple boxes back-to-back.

Features

- Rugged construction.
- Insulator curled over to:
 Bush conductors entering/leaving
 at any angle.
 Reduce wire pull effort.
 Protect threads against damage

Standard Material

in handling.

1942 Series

Body½" S	Steel
34" through 6" Malleable	lror
InsulatorN	ylon

842AL Series

All Copper free Aluminum

Standard Finish

1942 Series	Electro Zinc Plated
	& Chromate Coated
842AL Series	Degreased

Range

1942 & 842AL Series

½" through 6"
All hub threads straight pipe (NPS)

Listed/Certified by:

U.L. [All except for Catalog No. 842AL, 844AL & 845AL](U.L. File No. E-23018)CSA (LR-2884, LR-4484)

Conforms to:

U.L. 514B CSA C22.2 No. 18 Federal Specification W-F-408 NFPA 70-1999 (ANSI) NEMA FB1 Federal Standard H-28 (Threads)



Rigid and Intermediate Metal Conduit Fittings



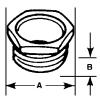




Steel or malleable iron or aluminum.

Cat	. No.		Dimens	ions (in.)
Stl. or M.I.	Alum.	Size	Α	В
841TB	-	3/8"	15/16	7/16
842TB	842ALTB†	1/2"	11/8	13/32
843TB	843ALTB	3/4"	1%	19/32
844	844AL†	1"	111/16	21/32
845	845AL†	11/4"	2	25/32
846	846AL	1½"	2%	13/16
847	847AL	2"	215/16	31/32
848	848AL	2½"	3%6	1 1/16
849	849AL	3"	43%	11/4
850	850AL	3½"	51/8	15/16
851	851AL	4"	5	15/16
853	853AL	5"	6½	15/16
854	854AL	6"	7½	1%

† Not UL Listed Available with DURA-PLATE® Finish. U.L. File No. E-23018 CSA File No. 2884





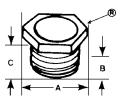




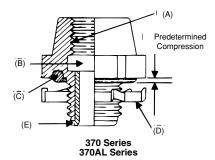
Steel or malleable iron or aluminum.

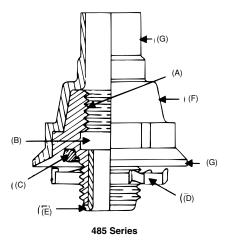
CHASE®	Nipples – Nylon	Insulated		
Cat.			Dimensions (in.)	
No.	Size	A	В	С
1942	1/2"	13/32	7/16	9⁄16
1943	3/4"	1%	17/32	23/32
1944	1"	111/16	21/32	7/8
1945	11⁄4"	21/32	25/32	11/32
1946	1½"	2¾	13/16	13⁄32
947	2"	215/16	31/32	111/32
1948	2½"	3%	1 1/16	1 7/16
1949	3"	43%	13/16	119/32
1950	3½"	51/8	15/16	125/32
1951	4"	51/8	15/16	1 13/16
953	5"	6%	15/16	113/16
1954	6"	7%	1%	1%

U.L. File No. E-23018 CSA File No. 2884



Rigid and Intermediate Metal Conduit Fittings





Threaded Hubs (Bullet® Hubs)

(For Threaded Rigid Metal Conduit/IMC/PVC Coated Rigid Metal Conduit)

Application

- To connect threaded metal conduit (ferrous rigid/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 watertight/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 N.E.C. 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 practicable, 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.



Rigid and Intermediate Metal Conduit Fittings

Threaded Hubs (Bullet® Hubs) – (Continued)

(For Threaded Rigid Metal Conduit/IMC/PVC Coated Rigid Metal Conduit)

Standard Material

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

Standard Finish

	370 Series	370AL Series	485 Series
Hub	Electro Zinc Plated	As Cast	PVC – Outside. Electro Zinc
	Chromate Coated		Plated Chromate Coated Inside
Locknuts	All Ferrous Locknuts	Electro Zinc Plated	and Chromate Coated

Screws All Electro Zinc Plated & Chromate Coated

Range

Listed/Certified by:

U.L. (U.L. File No: E-23018) CSA (LR-637, LR-23086)

Conforms To: U.L. 514B

CSA C22.2 No. 18 NFPA 70-1999 NEMA FB-1 JIC EGP1; JIC EMP 1 Federal Specification W-F-408 Federal Standard H-28 (Threads)



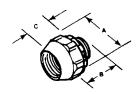
Rigid and Intermediate Metal Conduit Fittings







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



Steel/Malleable Iron and Aluminum Hub Connectors*†

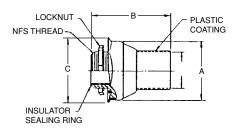
Cat. No.				Wall Thk.		
Stl. or M.I.	r M.I. Alum.**	Size	A	В	С	(max.)
370	370AL	1/2"	1%	11⁄4	3/4	5/16
371	371AL	3/4	1%	11⁄4	3/4	5/16
372	372AL	1"	23/32	1%	7∕8	5/16
373	373AL	11/8"	2%	1%	1	5/16
374	374AL	11/2"	33⁄32	1%	1	5/16
375	375AL	2"	3%	1%	1	5/16
376	376AL	2½"	41/8	1%	11/8	3/8
377	377AL	3"	5	21/2	11/2	1/2
378	378AL	3½"	5%	21/2	1½	1/2
379	379AL	4"	6¾6	21/2	11/2	1/2
381	-	5"	8	31/8		1/2
382	-	6"	9¾6	31/8		1/2

^{*} 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).

U.L. File No. E-23018 For Stl.: CSA File No. 2284 For AL.: CSA File No. 0637



Steel or malleable iron (steel thru 11/4").



PVC Coated Hub for Rigid Conduit						
Cat.						
No.	Conduit Size	A	В	C		
485	1/2"	1 ² ⁄⁄ ₆₄	21/8	1%		
486	3⁄4"	119/32	21/8	21/8		
487	1"	127/32	2¾	2%		
488	11⁄4"	215/32	3%	31/8		
489	1½"	229/32	3%	3½		
490	2"	3%	3¾	4		
491	2½"	327/32	4	41/2		
492	3"	421/32	4%	5%		
193	3½"	5%4	413/16	5%		
	4.0	=0.4	***	0.7/		

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).



^{**} Aluminum not available with insulated throat.

[†] U.L. Listed rain tight and CSA Certified watertight and dust tight Available with DURA-PLATE® Finish.

Rigid and Intermediate Metal Conduit Fittings

Spacing Chart for Bullet® Hubs

	Center to Center Spacing							Min. Space from Center of	КО			
	1/2	3/4	1	nduit Siz 1½	zes 1½	2	2½	3	3 3½ 4	4	Bullet® Hub to Wall of Box	Diameters (min.)
1/2	1 7/16	1%	1¾	21/8	2%	2%	2%	35/16	3½	3%	3/4	7/8
3/4	-	1¾	1%	21/4	2½	2¾	3	3½	3¾	41/8	7/8	11/8
1	_	_	2	23/8	25%	2%	31/8	3%	3%	41/4	11/8	1%
11/4	-	-	-	211/16	215/16	31/4	3½	4	41/4	4½	1%	13/4
1½	_	_	-	-	31/8	3½	3¾	41/8	43/8	4¾	1%	2
2	-	-	-	-	-	3¾	4	4½	4¾	5	1%	2½
2 ½	-	-	-	-	-	_	41⁄4	4¾	5	5%	21/8	3
3	-	-	-	-	-	-	-	51/8	5%	5¾	2%	35/8
3½	-	-	-	-	-	-	-	-	5%	6	2%	41/8
4	-	-	-	-	-	-	-	-	-	61/4	31/4	45/8



BULLET® Hub Connectors – Nylon Insulated

	Size		Packa	ging	Wt.
Cat. No. (in		Description	Carton	Std.	per 100
401	1/2"		25	100	20
402	3/4"		25	50	26
403	1"	Steel or malleable iron (steel through	5	25	44
404-TB	11⁄4"	1 inch). Used with a neoprene "O" ring	5	25	75
405	11/2"	to provide a watertight* threaded hub	2	10	100
406-TB	2"	on enclosures. Supplied with 106 series	1	5	138
407	21/2"	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

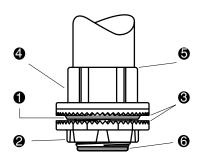
	Center to Center Spacing												Min. Space from Center of	КО
	1/2	3/4	1	11/4	1½	Conduit Size 2	2½ 2½	3	3½	4	5	6	Bullet® Hub to Wall of Box	Diameters (min.)
1/2	1 7/16	1%	1¾	21/8	2%	2%	2%	35⁄16	3½	3%	4%	5%	3/4	7/8
3/4	-	1¾	1%	21/4	2½	2¾	3	3½	3¾	41/8	413/16	5½	7/8	11/8
1	_	_	2	2%	25/8	2%	31/8	35/8	3%	41/4	415/16	511/16	11/8	13%
11/4	-	-	-	211/16	215/16	31/4	3½	4	41⁄4	41/2	55/16	5¾	1%	1¾
11/2	-	-	-	-	31/8	3½	3¾	41/8	43/8	4¾	7 1/16	6¾6	1%	2
2	-	-	-	-	-	3¾	4	4½	4¾	5	5¾	6½	17⁄8	21/2
21/2	-	-	-	-	-	-	41⁄4	4¾	5	5%	6	6¾	21/8	3
3	-	-	-	-	-	-	-	51/8	5%	5¾	6%	71/8	2%	3%
3½	-	-	-	-	-	-	-	-	5%	6	6¾	7½	27/8	41/8
4	-	-	-	-	-	-	-	-	-	61⁄4	71/8	7%	31/4	45%
5	-	-	-	-	-	-	-	-	-	-	8	8¾	4	5½
6	-	_	-	_	_	_	-	_	_	_	8¾	9½	4¾	6½



Rigid and Intermediate Metal Conduit Fittings



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.



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)

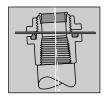
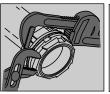


Fig. 1

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)



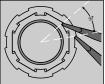


Fig. 2

Fig. 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.
- Precision Machined Tapered Threads designed to create watertight union.
- **(a)** Insulated Throat molded from 105° C rated thermoplastic with a flammability rating of 94 V-O.





T&B Hut						
		Α	В	C	D	E
Cat. No.	Trade Size	Dia.			Max. Panel Thickness	Throat Dia.
H050-TB	1/2	1 7⁄16	1%	7/8	3/16	19/32
H075-TB	3/4	121/32	119/32	29/32	3/16	25/32
H100-TB	1	2	1 ¹³ ⁄ ₁₆	11/16	1/4	1
H125-TB	11/4	23/8	1%	11/16	1/4	15/16
H150-TB	1½	2¾	1%	11/16	1/4	117/32
H200-TB	2	31/4	1 15/16	15⁄32	1/4	131/32
H250-TB	2½	3¾	2%	1%	1/4	213/32
H300-TB	3	43/8	221/32	119/32	1/4	231/32
H350-TB	3½	5	223/32	1%	1/4	313/32
H400-TB	4	5½	223/32	1%	1/4	3%
H500-TB	5	6%	31/32	115/16	1/4	415/16
H600-TB	6	711/16	35⁄32	2	5/16	6

Material -

Hub and Locknut: Insulating Throat:

zinc or copper free aluminum 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). (1/2" through 2" only.) Meets NEMA sealing requirements for NEMA 3R, 4 & 13 enclosures. U.L. Listed and CSA Certified. CSA Certified for hazardous locations Class II Groups E.F.G. Class III.

U.L. File No. E-23018 CSA File No. 4484

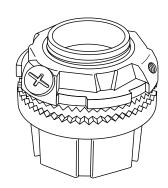


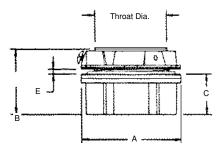
Throat Dia, E

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



Rigid and Intermediate Metal Conduit Fittings





1 4 2 4 1 4						
					D	Е
Cat. No.	Trade Size	A Dia.	В	C	Max. Panel Thickness	Throat Dia.
H050GR-TB	1/2	1 7/16	1%	7/8	3/16	19/32
H075GR-TB	3/4	121/32	119/32	29/32	3/16	25/32
H100GR-TB	1	2	1 13/16	1 1/16	1/4	1
H125GR-TB	11/4	2%	1%	1 1/16	1/4	1 5⁄16
H150GR-TB	11/2	2¾	1%	1 1/16	1/4	117/32
H200GR-TB	2	31⁄4	1 15/16	15⁄32	1/4	131/32
H250GR-TB	21/2	3¾	2%	1%	1/4	213/32
H300GR-TB	3	4%	221/32	119/32	1/4	231/32
H350GR-TB	31/2	5	223/32	1%	1/4	313/32
H400GR-TB	4	5½	223/32	1%	1/4	3%
H500GR-TB	5	6%	31/32	115/16	1/4	415/16
H600GR-TB	6	711/16	35⁄32	2	5⁄16	6

Material – Hub and Locknut: zin Insulating Throat: the

T&B Grounding Hub

zinc or copper free aluminum thermoplastic temp. rating – 105°C Flammability Rating: – 94V-0 Nitrilo (PUNA "N")

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.

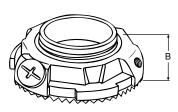
U.L. Listed and CSA Certified. CSA Certified for hazardous locations Class II Groups E.F.G. Class III.

U.L. File No. E-23018 CSA File No. 4484 Chrome Plated Hubs (suffix-"CP") are rated NEMA 4X.





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Grounding Locknut for Hubs

T&B Grounding and Bonding Locknut

Cat.	Trade	A	В	Ground	Max. Conductor
No.	Size	Dia.	Height	Screw	Size
L050GR	1/2	1½	13/32	#10-32 x 1/4"	#10
L075GR	3/4	111/16	13/32	#10-32 x 1/4"	#10
L100GR	1	2	13/32	#10-32 x 1/4"	#10
L125GR	11/4	23/8	15/32	1/4-20 x 1/4"	#10
L150GR	11/2	2¾	15/32	1/4-20 x 5/16"	#8
L200GR	2	31⁄4	15/32	1/4-20 x 5/16"	#8
L250GR	21/2	3¾	11/16	1/4-20 x 5/16"	#6
L300GR	3	43/8	23/32	1/4-20 x 5/16"	#6
L350GR	31/2	5	23/32	1/4-20 x 5/16"	#6
L400GR	4	5½	23/32	1/4-20 x 5/16"	#4
L500GR	5	65/8	23/32	%-16 x %"	#2
L600GR	6	711/16	23/32	%-16 x %"	#1

Material – Locknut: zinc or copper free aluminum For Aluminum Locknuts add suffix A. (i.e. L050GRA)

U.L. File No. E-3060 CSA File No. 4484

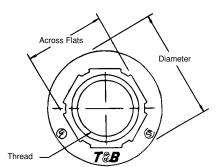
For Chrome Plated Locknuts add suffix CP. (i.e. L050CP). For 316 Stainless Steel Locknuts add suffix **SST** (½" through 2" only.)

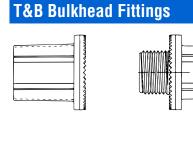
T&B Hub	Cente	rline	Spa	cinç	y Cha	art						
Conduit Trade Size	1/2"	3/4"	1"	11/4"	1½"	2"	2 ½"	3"	3½"	4"	5"	6"
1/2"	1%											
3/4"	143/64	125/32										
1"	127/32	161/64	21/8									
11/4"	21/32	2%4	25/16	2½								
1½"	27/32	221/64	2½	211/16	2%							
2"	215/32	237/64	2¾	215/16	31/8	3%						
21/2"	223/32	253/64	3	3¾6	3%	3%	3%					
3"	31/32	3%4	35/16	3½	311/16	315/16	43/16	41/2				
3½"	311/32	321/64	3%	313/16	4	41/4	41/2	413/16	51/8			
4"	319/32	345/64	3%	41/16	41/4	41/2	43/4	51/16	5%	5%		
5"	4%2	325/64	4%	43/4	415/16	5¾6	5 1/16	5¾	61/16	65/16	7	
6"	411/16	451/64	431/32	55/32	511/32	519/32	527/32	65/32	615/32	623/32	713/32	713/16
Nearest Obstruction to Center of Hub	27/32	61/64	11/8	15/16	1½	1¾	2	25/16	25/8	2%	2%	331/32

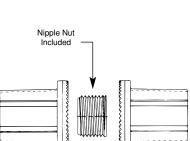
Rigid and Intermediate Metal Conduit Fittings



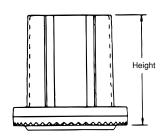


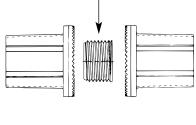






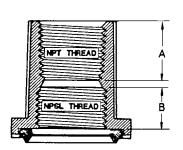
Bulkhead Fitting	
Cat. No.	Trade Size
H050BHD	1/2"
H075BHD	3/4"
H100BHD	1"
H125BHD	11/4"
H150BHD	1½"
H200BHD	2"
H250BHD	2½"
H300BHD	3"
H350BHD	3½"
H400BHD	4"
H500BHD	5"
H600BHD	6"

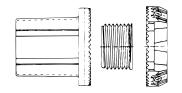




I hru	Bulkhead	Fitting
Cat	i.	

Cat. No.	Trade Size
H050TBF	1/2
H075TBF	3/4"
H100TBF	1"
H125TBF	11/4"
H150TBF	1½"
H200TBF	2"





Thru Bulkhead Hub

Cat. No.	Trade Size
Н050ТВН	1/2"
H075TBH	3/4"
H100TBH	1"
H125TBH	11⁄4"
H150TBH	1½"
H200TBH	2"

Trade Size	Thread	Height	Diameter	Across Flats	A	В
1/2"	1⁄2"-14	113/32	1 7/16	1	3/4	1/2
3/4"	3/4"-14	115/32	1 ¹¹ ⁄ ₁₆	11/4	25/32	17/32
1"	1"-11½	111/16	2	117/32	29/32	19/32
11/4"	11/4"-111/2	125/32	2%	127/32	29/32	21/32
1½"	1½"-11½	1 ¹³ ⁄ ₁₆	2¾	11/8	29/32	21/32
2"	2"-11½	127/32	31/4	25/8	15/16	21/32
21/2"	2½"-8	23/2	3¾	31/8	13/32	7/8
3"	3"-8	2%	4%	325/32	1 5⁄16	29/32
3½"	3½"-8	2%	5	4%2	1%	7/8
4"	4"-8	2%6	5½	427/32	1%	7/8
5"	5"-8	223/32	6%	529/32	115/32	7/8
6"	6"-8	3	711/16	71/32	1½	31/32

Material -

Hub, Body and Locknut: Insulating Throat:

zinc or copper free aluminum Thermoplastic temp. rating – 105°C Flammability Rating: – 94V-0 Nitrile (BUNA "N")

Sealing Ring 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.

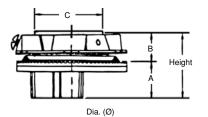
U.L. File No. E-3060 CSA File No. 4484

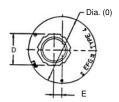


Rigid and Intermediate Metal Conduit Fittings









Offset Reducers

Cat. No.	Trade Size	Height	Dia. (Ø)	A Dia.	В	C	D	E
H150-H075ORGR	11/2"-3/4"	121/32	2¾	15/16	23/32	129/32	19/32	11/32
H150-H100ORGR	1%2"-1"	125/32	23/4	1 1/16	23/32	129/32	1%	7/32
H150-H125ORGR	19/32"-11/4"	125/32	23/4	11/16	23/32	129/32	1%	1/32
H250-H200ORGR	21/2"-2"	21/8	3¾	13/16	15/16	229/32	221/32	3/32

Material - Offset Reducer and Locknut: Insulating Throat:

Zinc or copper free aluminum Thermoplastic Temp. Rating - 105°C Flammability Rating – 94V-0 Nitrile (BUNA "N")

Sealing Ring For Aluminum Offset Reducer add suffix A.

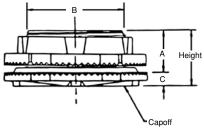
For Chrome Plated Offset Reducer add suffix CP.

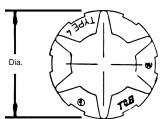
Meets NEMA sealing requirements for NEMA 3R. 4 & 13 enclosures. CSA Certified for hazardous locations Class II Groups E.F.G. Class III. U.L. File No. E-3060

CSA File No. 4484









Capoffs						
Cat. No.	Trade Size	Height	Diameter	A	В	С
H050CAP	1/2"	113/32	1 1/16	19/32	27/32	3/16
H075CAP	3/4"	115/32	111/16	19/32	11/16	3/16
H100CAP	1"	111/16	2	11/16	1 5⁄16	1/4
H125CAP	11/4"	1 ²⁵ / ₃₂	2%	23/32	121/32	1/4
H150CAP	1½"	1 ¹³ ⁄ ₁₆	2¾	23/32	129/32	1/4
H200CAP	2"	127/32	31⁄4	23/32	23/8	1/4
H250CAP	2½"	2%2	3¾	7/8	229/32	1/4
H300CAP	3"	2%	4%	7/8	31/32	11/32
H350CAP	3½"	2%	5	29/32	41/32	11/32
H400CAP	4"	2%	5½	29/32	41/2	11/32
H500CAP	5"	223/32	65/8	29/32	5%	11/32
H600CAP	6"	3	7%	31/32	65/8	11/32

Material - Capoff and Locknut: Insulating Throat:

zinc or copper free aluminum Thermoplastic temp. rating – 105°C Flammability Rating – 94V-0 Nitrile (BUNA "N")

Sealing Ring
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. U.L. File No. E-3060

CSA File No. 4484



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). ...duration of current 3 cycles.

Listed/Certified by:

U.L. (U.L. File No: E-23018) CSA (LR-2884, LR-4484)

Standard Material

Nut, Gland ½" to 1" Steel – 1¼" to
4" Malleable Iron
Body All Malleable Iron
Ring Steel (case hardened)
InsulatorNylon
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: U.L. 514B

CSA C22.2 No. 18 NFPA 70-1999 (ANSI) NEMA FB1 Federal Specification W-F-408 Federal Standard H-28 (Threads)

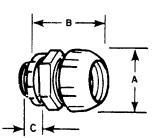


Rigid and Intermediate Metal Conduit Fittings









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

Nylon Insulated Threadless Connectors

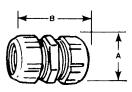
Cat. No. Nylon	Non-	Conduit	Dimensions (in.)			
Insul.	Insul.	Size	Α	В	С	
8123	8121	1/2"	17⁄32	111/16	1½	
8223	8221	3/4"	117/32	13/4	11/2	
8323	8321	1"	129/32	2	9/16	
8423	8421	11/4"	2%	2 1/16	11/16	
8523	8521	1½"	211/16	25/8	3/4	
8623	8621	2"	31/4	213/16	27/32	
8723-TB	8721	2½"	41/8	313/16	11/8	
8823	8821	3"	4%	4	17⁄32	
8853	8851	3½"	5½	41/8	11/8	
8973	8971	4"	61/32	4%	11/8	

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









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

Threadles	ss Couplings		
Cat.		Dimens	ions (in.)
No.	Size	A	В
3120	1/2"	1%2	2
3220	3/4"	119/32	25/16
3320	1"	17⁄8	211/16
3420	11⁄4"	23/8	213/16
3520	11/2"	25%	3%
620	2"	31⁄4	313/16
720	21/2"	315/16	5%
820	3"	411/16	5½
850	3½"	5¾6	5½
970	4"	511/16	5½

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

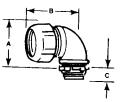


Rigid and Intermediate Metal Conduit Fittings

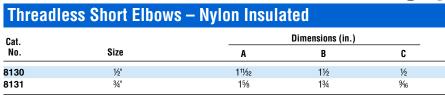








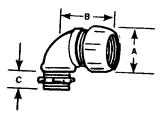
Ideal for entering enclosure or conduit body at right angles. Eliminates need to thread conduit. As with straight couplings, this connector makes a concrete-tight connection. Malleable iron.



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







This elbow has all of the advantages of the insulated short elbow except for the insulation. Malleable iron.

Threadle	ess Short Elbows	;		
Cat.			Dimensions (in.)	
No.	Size	A	В	C
8030	1/2"	1%	1½	7/16
8031	5/8"	111/16	1¾	1/2

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



Rigid and Intermediate Metal Conduit Fittings



8125 Series



8124 Series

Set Screw Connector/Coupling

(For Threadless Rigid Metal Conduit and Intermediate Metal Conduit)

Application

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

Features

- Thickwall steel or malleable iron body.
- Hardened hex head cup point screw to provide high quality bond.
- 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	2" thru 2" Steel
-	21/2" thru 4" Malleable Iron
Locknut1	%" thru 2" Steel (hardened)
	21/2" thru 4" Malleable Iron
Screw	Steel (hardened)
Insulator	Nylon

Standard Finish

Electro Zinc Plated & Chromate Coated

Listed/Certified by:

U.L. (U.L. File No: E-23018) CSA (LR-2884, LR-4484)

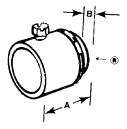
Conforms to: U.L. 514B

CSA C22.2 No. 18 NFPA 70-1999 (ANSI) NEMA FB1 Federal Specification W-F-408 Federal Standard H-28 (Threads)



Rigid and Intermediate Metal Conduit Fittings





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

Insulated Set-Screw Connector						
Cat.	Conduit	Dimensio	ons (in.)			
No.	Size	A	В			
8125	1/2"	1%	13/32			
8225	3/4"	1½	7/16			
8325	1"	1 ¹³ ⁄ ₁₆	35/64			
8425	11⁄4"	2	5/8			
8525	1½"	25⁄16	5%			
8625-TB	2"	2 7⁄16	11/16			
8725-TB	2½"	3%	1			
8825	3"	3 7⁄16	1			
8855	3½"	3%	11/16			
8975	4"	43⁄16	11/8			

Sizes ½"-2" made of steel. Sizes 2½"-4" are malleable iron. Available with DURA-PLATE® Finish.

U.L. File No. E-23018 CSA File No. 2884

Sat Sere





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

	ŶĽ.	y
ew Coupling		
Condu	.:. Dimension (in.)	

Set Sciew Coupling					
Cat.	Conduit	Dimension (in.)			
No.	Size				
8124	1/2"	2½			
8224	3/4"	211/16			
8324-TB	1"	223/32			
8424	11/4"	3			
8524	1½"	3%			
8624	2"	3%			
8724	2½"	3%			
8824-TB	3"	41⁄4			
8854	3½"	415/16			
8974	4"	5%			

Sizes ½"-2" made of steel; sizes 2½"-4" are malleable iron. Available with DURA-PLATE® Finish.

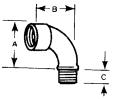
U.L. File No. E-23018 CSA File No. 2884



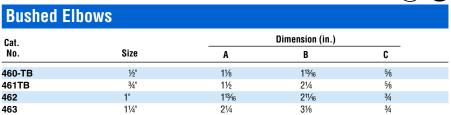
Rigid and Intermediate Metal Conduit Fittings





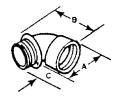


The non-insulated elbow has smoothly rounded shoulders to protect conductor insulation. Malleable iron.



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





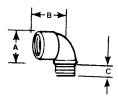
The integral insulation of the insulated elbow is a guarantee that the bushing of every fitting will be smooth. Malleable iron.

Short Elbows – Nylon Insulated						
Cat. Dimension (in.)						
No.	Size	A	В	C		
4290	1/2"	11/32	11⁄4	1/2		
4291	3/4"	1 7/16	15/16	%16		
4292	1"	123/32	1 1/16	11/16		
4293	11⁄4"	21/32	21/16	13/16		
4294	1½"	215/32	2¾6	13/16		
4295	2"	3	2%6	13/16		

Available with DURA-PLATE® Finish. Not U.L. or CSA.





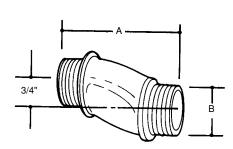


When an insulated elbow is not desired, the non-insulated short elbow should be used. Malleable iron.

Short Elbo	ws				
Cat.		Dimension (in.)			
No.	Size	A	В	C	
4250	1/2"	15/16	11⁄4	7/16	
4251	3/4"	117/32	15/16	1/2	
4252	1"	1 ¹³ ⁄ ₁₆	1%	5/8	
4253	11/4"	23/2	21/16	11/16	
4254	1½"	2%	2¾6	11/16	
4255	2"	33⁄32	2%	11/16	

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

			<u></u>
<) -	



Conduit Nipples – Die Cast Zinc 1" Long					
Cat. No.	Size	A	В		
HA-211	1/2"	1"	15/16"		
HA-212	3/4"	1"	13/16"		
HA-213	1"	1"	1 7/16"		

U.L. File No. E-1275 1/2" & 3/4" only

Offset Nipples – Die Cast Zinc					
Cat. No.	Size	Α	В		
HO-221	1/2"	2.60"	1.00"		
HO-222	3/4"	2.62"	1.32"		
HO-223	1"	2.68"	1.51"		
HO-224	11⁄4"	2.85"	1.85"		
HO-225	1½"	2.88"	2.08"		
HO-226	2"	3.19"	2.71"		

3/4" offset. U.L. File No. E-1275



Rigid and Intermediate Metal Conduit Fittings



674 Series 675AL Series

Threaded Coupling (Erickson® Coupling)

(For Threaded Rigid Metal Conduit and Intermediate Metal Conduit)

Application

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

Features

- Malleable Iron/Steel/Copper free Aluminum Construction.
- Free fitting threads insure easy assembly.
- · Permits conduit coupling without rotating either conduit.
- Provides rigid in-line coupling with high quality grounding; will not loosen under vibration.
- Suitable for concrete tight application.
- · Capable of carrying ground fault currents up to 10,000 amps RMS (1/2" through 11/2" size) and up to 20,000 amps RMS (2" and above) (duration of fault current 3 cycles) (674 series tested).

Standard Material

674 Series

Bushing & CaseMalleable Iron RingSteel & Malleable Iron

675AL Series

Bushing & Case.....Aluminum RingAluminum

Standard Finish

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

%" thru 6" Conduit (malleable iron) ½" thru 6" Conduit (aluminum) All straight pipe threads (NPS)

Listed/Certified by:

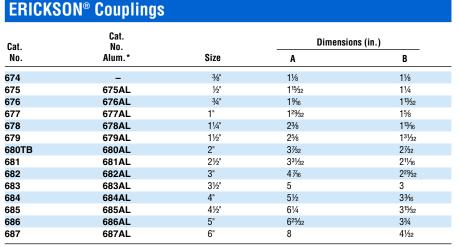
U.L. (U.L. File No. E-23018) CSA (LR-2884, LR-4484)

Conforms to: U.L. 514B

CSA C22.2 No. 18 **NEMA FB1** NFPA 70-1999 (ANSI) Federal Specification W-F-408 Federal Standard H-28 (Threads)







* Copper Free Aluminum.

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

U.L. File No. E-23018

CSA File No. 2884



turned. A conduit run may also be broken with-

out taking down the whole run. Conduit joined

with ERICKSON® Couplings is rigid and in line

and vibration will not loosen the connections.

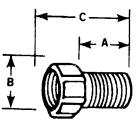
Malleable iron.



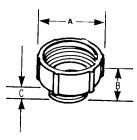
Rigid and Intermediate Metal Conduit Fittings



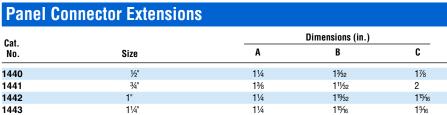




Ideal when longer thread length is needed. Will combine with any fitting having a male thread. Male thread of panel connector extension is 1" long. Malleable iron.



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



U.L. File No. E-23018 CSA File No. 2884





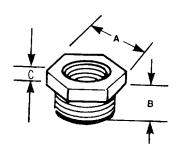
Male Enlargers*						
Cat.		Dimensions (in.)				
No.	Size	A	В	С		
1245	½" to ¾"	113/32	11/16	1/2		
1246	3⁄4" to 1"	111/16	11/4	15/32		
1244	1" to 11/4"	21/16	111/32	1/2		
1247	11/4" to 11/2"	25/16	1%	9/16		

^{*} 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.

U.L. File No. E-23018 CSA File No. 2884







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

Female Reducers*					
Cat.		Dimensions (in.)			
No.	Size	A	В	C	
250	34" to 1⁄2"	11/8	5/8	3/16	
261	1" to ½"	1 7/16	21/32	3/16	
1251	1" to 3/4"	1%	11/16	3/16	
262	11/4" to 1/2"	113/16	23/32	3/16	
263	11/4" to 3/4"	113/16	23/32	3/16	
252	11/4" to 1"	13/4	25/32	7/32	
253	1½" to 1¼"	2	13/16	1/4	
254	2" to 11/2"	2%	13/16	%2	
255	2½" to 2"	3	11⁄4	3/8	
256	3" to 21/2"	3%	1½	1/2	
257	3½" to 3"	41/8	1%	1/2	
258	4" to 31/2"	45%	1%	1/2	

^{*} 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.

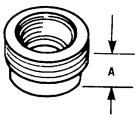
U.L. File No. E-23018 CSA File No. 2884



Rigid and Intermediate Metal Conduit Fittings







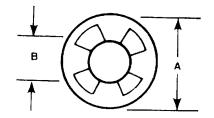
For reducing the threaded opening in conduit bodies or any female threaded fitting. Smooth, built-in bushing completely covers rough ends of conduit. Iron or steel construction. Steel thru 606, also 614 & 615.

Threaded Reducers*						
Cat	. No.		Dimension (in.)			
Stl. on MI	Alum.	Size	A			
600TB	600ALTB	½" to ¾"	%6			
601TB	601ALTB	3⁄4" to 1⁄2"	%6			
602TB	602ALTB	1 " to ½"	5/8			
603TB	603ALTB	1 " to ¾"	5/8			
604TB	604ALTB	1 1⁄4" to 1⁄2"	¹³ ⁄ ₁₆			
605	605AL	1 1⁄4" to 3⁄4"	7∕8			
606	606AL	11⁄4" to 1"	15/16			
607	607AL	1½" to ½"	13/16			
608	608AL	11/2" to 3/4"	13/16			
609	609AL	1½" to 1"	15/16			
610	610AL	1½" to 1¼"	3/4			
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 11/4"	15/16			
615	615AL	2" to 11/2"	7∕8			

U.L. File No. E-23018 CSA File No. 2884







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

Cat.		Dimen	sions (in.)
No.	Size	A	В
3700	3⁄4" to 3⁄8"	1%	45%
3701	3⁄4" to 1⁄2"	1%	7/8
3702	1" to ¾"	1%	45%
3703	1" to ½"	1 %	7/8
3704	1" to ¾"	1%	13/32
3705	11/4" to 3/8"	2	45%
3706	11/4" to 1/2"	2	7/8
3707	11/4" to 3/4"	2	13/32
708	11/4" to 1"	2	123%
3709	1½" to ¾"	21/4	45%
3710	1½" to ½"	21/4	7/8
3711	11/2" to 3/4"	21/4	13/32
3712	11½" to 1"	21/4	123/6
3713	1½" to 1¼"	21/4	123/3
3714	2" to ½"	2¾	7/8
3715	2" to 3/4"	2¾	13/32
3716	2" to 1"	2¾	123/6
3717	2" to 11/4"	2¾	123/3
3718	2" to 1½"	2¾	131/3

U.L. File No. E-13938 CSA File No. 2884



Rigid and Intermediate Metal Conduit Fittings



Conduit Strap Conduit Spacer Supporting

Conduit Straps

(For Rigid Metal Conduit and Intermediate Metal Conduit)

Application

• To support and securely fasten rigid metal conduit and intermediate metal to the supporting surface.

Features

- Rugged malleable iron/copper free aluminum construction - snugly fits on the conduit.
- Designed to prevent accumulation of moisture and start of corrosion on vertical run of conduit (A).
- 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 %" through ½" through 6" conduit 6" conduit

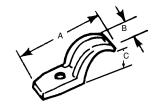
Listed/Certified by:

CSA (LR-2884, LR-4484)

Conforms to:

CSA C22.2 No. 18 NFPA 70-1999 (ANSI)





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

Pipe Straps - Malleable Iron or Aluminum

Cat. No.				Screw			
Mal. Iron	Alum.	Size	A	В	C	Size	
1275†	1275AL	3/8"	1%"	11/16"	3/4"	#12	
1276 [†]	1276AL [†]	1/2"	25/32"	21/32"	11/32"	1/4"	
1277 [†]	1277AL [†]	3/4"	2%6"	11/16"	17⁄32"	1/4"	
1278†	1278AL [†]	1"	3"	3/4"	117/32"	1/4"	
1279†	1279AL [†]	11⁄4"	3¾"	13/16"	1%"	5/16"	
1280†	1280AL	11/2"	43/16"	15/16"	21/8"	3/8"	
1281	1281AL	2"	5¾6"	11/8"	217/64"	7/16"	
1282*	1282AL	21/2"	5 ¹⁵ ⁄16"	11/2"	2¾"	1/2"	
1283*	1283AL	3"	611/16"	15⁄8"	311/32"	1/2"	
1284	1284AL	3½"	719/32"	13⁄4"	329/32"	5⁄8"	
1285*	1285AL	4"	85/16"	1%"	413/32"	5%"	
1286	1286AL	41/2"	9¾6"	1 15/16"	415/16"	5⁄8"	
1287	1287AL	5"	915/16"	2"	515/32"	5⁄8"	
1288	1288AL	6"	11½"	2 7/16"	617/32"	5⁄8"	

May be used with EMT of same size. † Not snap on type.

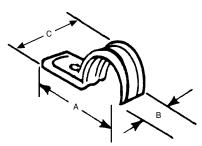
III not applicable

CSA File No. 2884



Rigid and Intermediate Metal Conduit Fittings





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

Pipe Straps – Steel								
Cat. No.	Conduit Size	Α	В	C	Screw Size			
1210†	3/8"	115/32	3/4	11/16	1/4"			
1211	1/2"	2	3/4	15/16	1/4"			
1212	3/4"	25/16	3¾	1"	1/4"			
1213	1"	313/16	3/4	11764	1/4"			
1214	11/4"	231/32	1%	1%	3%"			
1215	1½"	323/32	113/16	1 13/16	3/8"			
1216	2"	4 1/16	25⁄16	2 5⁄16	3/8"			

† Not snap on type. U.L. not applicable. CSA File No. 2884



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

Corrosion Resistant PVC Coated Rigid Conduit Straps

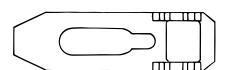
Cat.		Bolt	Dimensions (in.)		
No.	Size	Size	A	В	C
1275CR	3/8"	1/4"	1%	11/16	3/4
1276CR	1/2"	1/4"	25/32	21/32	11/32
1277CR	3/4"	1/4"	2%	11/16	13/32
1278CR	1"	1/4"	3	3/4	117/32
1279CR	11/4"	3/8"	3¾	13/16	1%
1280CR	11/2"	3/8"	4¾6	15/16	21/8
1281CR	2"	1/2"	5¾6	11/8	217/64

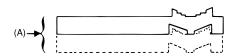
U.L. not applicable.

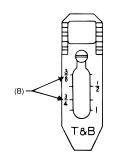


Rigid and Intermediate Metal Conduit Fittings









Conduit Spacers

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

Application

• Provides mounting surface for conduit where installation requires air space between conduit and supporting surface.

Features

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

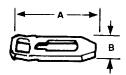
½" through 6" conduit

Listed/Certified by:

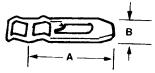
CSA (LR-2884, LR-4484, LR-4484)

Conforms to:

CSA C22.2 No. 18 NFPA 70-1999 (ANSI)

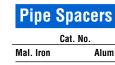


Used with T&B conduit straps to permit space between conduit and mounting surface. Eliminates need for costly offset-bending conduit and possible corrosive moisture traps when conduit is mounted directly to a surface. Hot-dipped galvanized finish, premountable and stackable to eliminate offsetting. Malleable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



Corrosion-resistant, PVC-coated, malleable iron. Pre-mountable, stackable to eliminate offsetting.

Spacers can be stacked for offsets on wall or into outlet box. Prevents conduit rusting from wall condensation. Eliminates offsetting of conduit.



Lihe o	hareis				
C	at. No.		Screw	Dimensio	ons (in.)
Mal. Iron	Alum.	Size	Size	A	В
1350	1350AL	1⁄2", 3⁄4", 1"	#7	3"	7/8"
1351	1351AL	11/4"-11/2"-2"	#12	5"	13/16"
1352	1352AL	21/2"-3"	#12	9%6"	1¾"
1353	1353AL	3½"-4"	#14	7%6"	2"
1354	1354AL	4½"-5"-6"	#16	10%6"	2%6"

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

Pipe
Cat. No.
1350CB

Pipe Spacers – PVC coated										
Cat.	Conduit	Screw Dimens		sions (in.)						
No.	Size	Size	Α	В						
1350CR	1/2"-3/4"-1"	#7	3	7/8						
1351CR	11/4"-11/2"-2"	#12	5	3/8						
1352CR	2½"-3"	#12	6%	1¾						
1353CR	31/2"-4"	#14	7%	2						
1354CR	4½"-5"-6"	#16	10%	21/16						

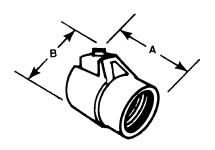
U.L. not applicable Conforms to NEC SECT. 300-5-c.



Rigid and Intermediate Metal Conduit Fittings







A one-piece fitting that couples armored cable or flexible conduit to threaded rigid conduit. Tite-Bite® wedge holds conduit securely with a double grip. With a Chase® nipple this fitting will connect flexible conduit to outlet boxes, allowing more wiring space in the box than the usual connector. U.L. Listed as a grounding means under NEC 350-5. Malleable iron.

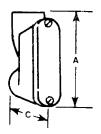
TITE-BITE® Combination Couplings -**Armored Cable for Threaded Rigid**

Cat.		Dimensi	ons (in.)
Cat. No.	Size	A	В
440	1/2"	1%	127/32
441	3⁄4"	1¾	21/8
442	1"	2	217/32

U.L. File No. E-23018 CSA File No. 2884







T&B entrance ells mount flat against the wall eliminating the need for offsetting the conduit. Designed for a straight pull in either direction and carefully bushed, these entrance ells make it easy to pull heavy wires without damage to the insulation. Made of copper free aluminum.

Entrance Ells								
Cat.	Conduit	Dimensions (in.)						
No.	Size	A	С					
1490	1/2"	311/64	119/32					
1491	3/4"	3%6	1%					
492	1"	41/4	21/32					
493	11⁄4"	531/64	213/16					
494	1½"	61/4	2%					
495	2"	6¾	3&					
496	2½"	13%4	5%					
497	3"	13%4	6½					
498	3½"	162%4	717/32					
499	4"	162%4	717/32					

U.L. File No. E-23018 CSA File Nos. 2884 and 589



Includes bolts. Steel

Cat. No.	

No.	Description				
700TB	Fits Flange 2%"-7%"				
701	Fits Flange 7"-12"				
703	Special Bolt and 3 Nuts				

CSA File No. 2884.





These supports will fit any flange, tapered or straight up to ¾" thick. The broad hook holds the conduit at any desired angle. Holds standard rigid conduit, E.M.T., or I.M.C. Malleable iron.

Conduit Supports

Cat. No.	Size
690	1/2"
691TB	3⁄4"
692TB	1"
693TB	11/4"

CSA File No. 2884



Conduit Outlet Bodies





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.

(EMT)

FORM 7 For neat, compact installation of rigid threaded conduit. FORM 8 For heavier conductors using rigid threaded conduit. Red • Dot® Aluminum For rigid threaded conduit installation – copper-free

Die-Cast aluminum.

Red•Dot® Thinwall For set-screw installation using thinwall conduit.

(EMT) - copper-free aluminum.

For larger conduits, spacious, accessible wiring chambers. Moaul

Conduit Fittinas



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



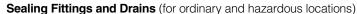
Cast Conduit Outlet Boxes (for hazardous locations)

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



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.



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-degree 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, 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.

Materials

- Conduit Bodies (Form 7 and Form 8) Sand cast class 30 Gray iron alloy.
- Red•Dot® 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.
- Covers gray iron zinc-plating with an aluminum acrylic coating, and 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







Threaded Rigid Bodies											
	Shape					Hub Size					
		1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
E TRES 172 G	Form 7 Form 8 Threaded Aluminum EMT Aluminum	LB17 LB18 ALB1 BLB1	LB27 LB28 ALB2 BLB2	LB37 LB38 ALB3 BLB3	LB47 LB448 ALB4 BLB4	LB57 LB58 ALB5 BLB5	LB67 LB68 ALB6 BLB6	LB77 LB78 ALB7 BLB7	LB87 LB888 ALB8 BLB8	LB97 LB98 ALB9 BLB9	LB107 LB108 ALB10 BLB10
	Form 7 Form 8 Threaded Aluminum EMT Aluminum	T17 T18 AT1 BT1	T27 T28 AT2 BT2	T37 T38-TB AT3 BT3	T47 T448 AT4 BT4	T57 T58 AT5 BT5	T67 T68 AT6 BT6	T77 T78 AT7	T87 T88-TB AT8	T97 AT9	T107 AT10
© 186 1/2 € 1	Form 7 Form 8 Threaded Aluminum EMT Aluminum	C17 C18 AC1 BC1	C27 C28 AC2 BC2	C37 C38 AC3 BC3	C47 C448 AC4 BC4	C57 C58-TB AC5 BC5	C67 C68 AC6 BC6	C77-TB C78 AC7	C87 C88 AC8	AC9	AC10
	Form 7 Form 8 Threaded Aluminum EMT Aluminum	LL17 LL18 ALL1 BLL1	LL27 LL28 ALL2 BLL2	LL37 LL38 ALL3 BLL3	LL47 LL448 ALL4 BLL4	LL57 LL58 ALL5 BLL5	LL67 LL68 ALL6 BLL6	LL77 LL78 ALL7	LL87 LL888 ALL8	LL97 ALL9	LL107 ALL10
	Form 7 Form 8 Threaded Aluminum EMT Aluminum	LR17 LR18 ALR1 BLR1	LR27 LR28 ALR2 BLR2	LR37 LR38 ALR3 BLR3	LR47 LR448 ALR4 BLR4	LR57 LR58 ALR5 BLR5	LR67 LR68 ALR6 BLR6	LR77 LR78 ALR7	LR87 LR888 ALR8	LR97 ALR9	LR107 ALR10
X	Form 7 Form 8	X17 X18	X27 X28	X37 X38	X47 X448	X57 X58	X67 X68				
*L	Form 7 Threaded Aluminum EMT Aluminum	L17-TB ALRL1 BLRL1	L27-TB ALRL2 BLRL2	L37-TB ALRL3 BLRL3	L47-TB ALRL4 BLRL4	L57-TB ALRL5 BLRL5	L67-TB ALRL6 BLRL6				
	Form 7 Threaded Aluminum	E17 AE1	E27 AE2	E27 AE3							
TA	Form 7	TA17	TA27	TA37	TA47	TA57	TA67				
ТВ	Form 7	TB17-TB TB18	TB27 TB28	TB37 TB38	TB47 TB48	TB57 TB58	TB67 TB68				

^{*}Furnished with one stamped steel cover



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

Covers and Gaskets											
Shape						Hub Size					
		1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
Stamped Steel	Form 7 Form 8 Red•Dot®	170S 180 SCV1	270S 280 SCV2	370S 380 SCV3	470S 480 SCV4	570S 580 SCV4	670S 680 SCV5	870S 880 CV6	870S 880 CV6	970S 980 CV7	970S 980 CV7
Gray Iron	Form 7 Form 8	170F 180F	270F 280F	370F 380F	470F 480F	570F 580F	670F 680F	870F 880F	870F 880F	970F 980F	970F 980F
Gasket	Form 7 Form 8 Red•Dot®	GASK 571 GASK 581N GKN1	GASK 572 GASK 582N GKN2	GASK 573 GASK 583N GKN3	GASK 574 GASK 584N GKN4	GASK 575 GASK 585N GKN4	GASK 576 GASK 586N GKN5	GASK 578 GASK 588N GKN6	GASK 578 GASK 588N GKN6	GASK 579 GASK 589N GKN7	GASK 579 GASK 589N GKN7

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



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

3

3½

10.55

12.85

12.85

LB87

LB97

LB107





132.0

210.0

243.0

(1)

8.40

10.25

10.25

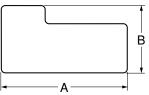
LB Form 7										
Cat.										
No.	Size	A	В	C	D	E	CI			
LB17	1/2	4.60	2.20	1.35	.95	3.20	4.0			
LB27	3/4	5.25	2.40	1.65	1.15	3.80	6.6			
LB37	1	6.00	2.65	1.80	1.35	4.55	10.6			
LB47	11/4	6.45	3.20	2.20	1.80	5.00	18.8			
LB57	11/2	7.25	3.90	2.45	2.05	5.45	26.4			
LB67	2	8.30	4.45	3.10	2.45	6.40	51.0			
LB77	21/2	10.55	5.20	4.25	3.60	8.40	102.0			

5.95

6.70



E



LB Form 7 and Form 8



4.25

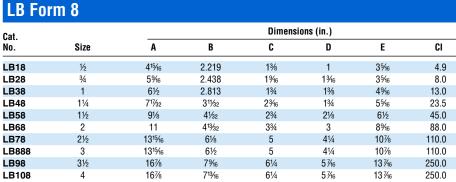
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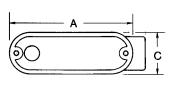
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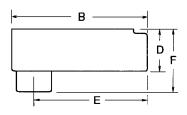
3.60

4.55

4.55







LB Threaded Aluminum and EMT Aluminum

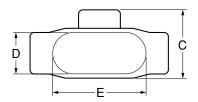
LB Thr	eaded A	luminu	m					
Cat.				Dime	nsions (in.)			
No.	Size	Α	В	C	D	Е	F	CI
ALB1	1/2	3%	4%2	15/16	1 7/16	3½	21/16	4.3
ALB2	3/4	45/8	51/8	117/32	15%	41/4	2 1/16	7.3
ALB3	1	5%	5 ¹⁵ ⁄16	13⁄4	17%	415/16	2¾	11.8
ALB4	11/4	71/4	7%	21/2	21/2	6½	3%6	32.0
ALB5	1½	71/4	7%	21/2	2¾	65/16	313/16	32.0
ALB6	2	9½	913/16	31/8	3 1⁄16	8	41/2	69.5
ALB7	21/2	121/4	13	41/2	3%	1027/32	51/4	190.0
ALB8	3	121/4	13	41/2	41/2	10½	5%	190.0
ALB9	31/2	15	165/16	5½	5%	13½	615/16	366.0
ALB10	4	15	165⁄16	5½	5%	13½	615/16	366.0

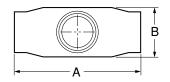
Cat.				Dime	nsions (in.)			
No.	Size	Α	В	C	D	E	F	CI
BLB1	1/2	3%	4%2	15/16	1 7/16	3½	21/16	4.3
BLB2	3/4	45/8	51/8	117/32	1%	41/4	2 1/16	7.3
BLB3	1	5%	5 ¹⁵ / ₁₆	1¾	17%	415/16	2¾	11.8
BLB4	11/4	71/4	7%	21/2	21/2	61/2	3%6	32.0
BLB5	11/2	71/4	7%	21/2	23/4	65/16	313/16	32.0
BLB6	2	9½	913/16	31/8	3 1⁄16	8	41/2	69.5
BLB7	21/2	121/4	13	41/2	3%	1027/32	51/4	190.0
BLB8	3	121/4	13	41/2	41/2	10½	5%	190.0
BLB9	31/2	15	165/16	5½	5%	131/2	615/16	366.0
BLB10	4	15	165⁄16	5½	5%	131/2	615/16	366.0











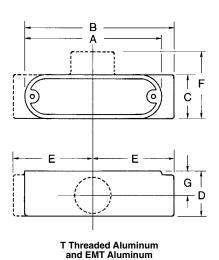
T Form 7 and Form 8

T Forn	n 7						
Cat.				Dimensi			
No.	Size	A	В	C	D	E	CI
T17	1/2	5.60	1.80	2.35	.95	3.20	6.0
T27	3/4	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	11⁄4	7.30	2.30	3.05	1.80	5.00	19.3
T57	11/2	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	21/2	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	31/2	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									
Cat.		Dimensions (in.)								
No.	Size	A	В	C	D	E	CI			
T18	1/2	511/16	1¾	25/32	1	35⁄16	6.0			
T28	3/4	6%2	2	25/16	13/16	315/16	9.0			
T38-TB	1	75/16	21/4	25/8	1%	4%	15.0			
T48	11/4	81/2	25/8	35/32	1¾	55/16	24.0			
T58	11/2	10%	225/32	4	21/8	6½	46.5			
T68	2	121/4	3%6	5	3	8%	88.0			
T78	21/2	15%	4 7/16	611/16	41⁄4	10%	110.0			
T88-TB	3	15%	413/16	611/16	41/4	10%	110.0			



Cat.					Dimensions	s (in.)			
No.	Size	Α	В	C	D	E	F	G	CI
AT1	1/2	3%	4%	121/64	1%	213/32	21/16	13/16	4.3
AT2	3/4	45/8	51/8	117/32	1%	225/32	211/32	15/16	7.3
AT3	1	5%	5 ¹⁵ / ₁₆	1¾	1%	31/4	25/8	1	11.8
AT4	11/4	71/4	7%	21/2	21/2	43/16	311/32	1%	32.0
AT5	1½	71/4	7%	21/2	2¾	43/16	317/32	11/2	32.0
AT6	2	91/2	103/16	31/8	3%6	513/32	4	131/32	69.5
AT7	21/2	121/4	13	41/2	41/2	6%	525/32	2 1/16	190.0
AT8	3	121/4	13	41/2	41/2	6%	5 ²⁵ / ₃₂	2 1/16	190.0
AT9	31/2	15	165/16	5½	5%	813/16	613/16	3	366.0
AT10	4	15	165/16	51/2	5%	813/16	613/16	3	366.0

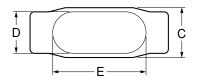
T EMT	T EMT Aluminum												
Cat. Dimensions (in.)													
No.	Size	A	В	C	D	E	F	G	CI				
BT1	1/2	3%	4%	121/64	1%	213/32	21/16	13/16	4.3				
BT2	3/4	4%	51/8	117/32	1%	225/32	211/32	15/16	7.3				
втз	1	5%	515/16	1¾	1%	31/4	2%	1	11.8				
BT4	11/4	71/4	7%	21/2	21/2	43/16	311/32	1%	32.0				
BT5	1½	71/4	7%	21/2	2¾	43/16	317/32	11/2	32.0				
ВТ6	2	9½	10¾6	31/8	3%	513/32	4	131/32	69.5				

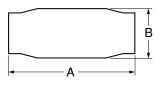












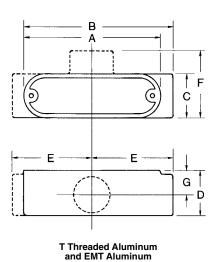
\sim	F	7		Form	n
	COLL	•	and	COLL	n

C Forn	n 7						
Cat.				Dimensi	ons (in.)		
No.	Size	A	В	C	D	E	CI
C17	1/2	5.45	1.40	1.45	.95	3.20	4.0
C27	3/4	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	11⁄4	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	21/2	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	1 8							
Cat.		Dimensions (in.)						
No.	Size	A	В	С	D	E	CI	
C18	1/2	511/16	1 7/16	1%	1	35⁄16	4.9	
C28	3/4	6%2	1 11/ ₁₆	13/16	13/16	315/16	8.0	
C38	1	75/16	1 15/16	1¾	1%	4%	13.0	
C48	11/4	81⁄2	23/8	2¾6	1¾	55/16	23.5	
C58-TB	1½	10%	225/32	2¾	21/8	6½	45.0	
C68	2	121/4	3%	3¾	3	8%	88.0	
C78	21/2	15%	4 7⁄16	5	41/4	10%	110.0	
C88	3	15%	413/16	5	41/4	10%	110.0	



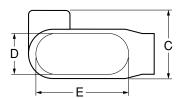
C Threaded Aluminum												
Cat.					Dimensions	s (in.)						
No.	Size	Α	В	C	D	E	F	G	CI			
AC1	1/2	3%	4%	121/64	1%	213/32	21/16	13/16	4.3			
AC2	3/4	45/8	51/8	117/32	1%	225/32	211/32	15/16	7.3			
AC3	1	5%	5 ¹⁵ ⁄16	1¾	1%	31/4	25/8	1	11.8			
AC4	11/4	71/4	7%	21/2	21/2	43/16	317/32	1%	32.0			
AC5	1½	71/4	7%	21/2	2¾	43/16	317/32	11/2	32.0			
AC6	2	91/2	10¾6	31/8	3%6	513/32	4	131/32	69.5			
AC7	21/2	121/4	13	41/2	41/2	6%	525/32	2 1/16	190.0			
AC8	3	121/4	13	41/2	41/2	6%	525/32	2 1/16	190.0			
AC9	3½	15	165/16	51/2	5%	813/16	613/16	3	366.0			
AC10	4	15	165/16	51/2	5%	813/16	613/16	3	366.0			

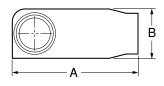
C EMT	C EMT Aluminum												
Cat.		Dimensions (in.)											
No.	Size	A	В	C	D	E	F	G	CI				
BC1	1/2	3%	4%	121/64	1%	213/32	21/16	13/16	4.3				
BC2	3/4	45/8	51/8	117/32	1%	225/32	211/32	15/16	7.3				
BC3	1	5%	5 ¹⁵ ⁄16	13/4	1%	31/4	25/8	1	11.8				
BC4	11/4	71/4	71/8	21/2	21/2	43/16	311/32	1%	32.0				
BC5	1½	71/4	7%	21/2	2¾	43/16	311/32	1½	32.0				
BC6	2	9½	10¾6	31/8	3%6	513/32	4	131/32	69.5				











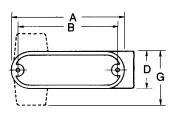
LL Form 7 and Form 8

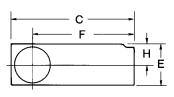
LL For	m 7						
Cat.				Dimensi	ons (in.)		
No.	Size	A	В	C	D	E	CI
LL17	1/2	4.60	1.40	1.45	.95	3.20	4.0
LL27	3/4	5.25	1.60	1.65	1.15	3.80	6.6
LL37	1	6.00	1.90	2.60	1.35	4.55	10.6
LL47	11⁄4	6.45	2.30	3.05	1.80	5.00	18.6
LL57	1½	7.90	2.60	3.80	2.05	5.45	26.4
LL67	2	8.30	3.20	4.25	2.45	6.40	51.0
LL77	21/2	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	31/2	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 For	m 8						
Cat.				Dimensi	ons (in.)		
No.	Size	A	В	С	D	E	CI
LL18	1/2	415/16	1 7/16	25/32	1	35⁄16	4.9
LL28	3/4	5%	111/16	25/16	13/16	315/16	8.0
LL38	1	615/32	1 15/16	25/8	1%	4%	13.0
LL48	11/4	711/32	2%	35/32	1¾	55/16	23.5
LL58	11/2	91/8	225/32	4	21/8	6½	45.0
LL68	2	11	3%	5	3	8%	88.0
LL78	21/2	1315/16	4 7/16	611/16	41⁄4	10%	110.0
LL888	3	1315/16	413/16	611/16	41⁄4	10%	110.0





LL Threaded Aluminum and EMT Aluminum

LL Threaded Aluminum														
Cat.			Dimensions (in.)											
No.	Size	A	В	C	D	E	F	G	Н	CI	CI LRL Sty			
ALL1	1/2	3%	3½	45/16	1 5⁄16	1%	3%6	2	25/32	4.3	4.8			
ALL2	3/4	45/8	41/8	51/8	111/32	15/8	41/8	25/16	7∕8	7.3	7.5			
ALL3	1	5%	4%	55/16	1¾	1%	4%	21/2	1	11.8	12.5			
ALL4	11/4	71/4	61/2	7%	21/2	2¾	65/16	3%	1½	32.0	36.5			
ALL5	11/2	71/4	61/2	7%	21/2	2¾	65/16	3%	1½	32.0	36.5			
ALL6	2	91/2	8%	10¾6	31/8	3 7/16	83/16	315/16	1 15/16	69.5	73.8			
ALL7	21/2	121/4	111/4	13	41/2	41/2	101/4	51/2	2%	190.0				
ALL8	3	121/4	111/4	13	41/2	41/2	101/4	5½	2%	190.0				
ALL9	31/2	15	14 1/16	161/4	51/2	5½	12¾	61/2	3	366.0				
ALL10	4	15	14 7/16	161⁄4	5½	5½	12¾	6½	3	366.0				

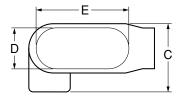
LL EMT Aluminum											
Cat.						Dime	nsions (in	.)			
No.	Size	A	В	C	D	E	F	G	Н	CI	CI LRL Sty
BLL1	1/2	3%	3½	45/16	15/16	1%	3%6	2	25/32	4.3	4.8
BLL2	3/4	45%	41/8	51/8	117/32	1%	41/8	25/16	7/8	7.3	7.5
BLL3	1	5%	4%	51/16	1¾	1%	4%	21/2	1	11.8	12.5
BLL4	11/4	71/4	6½	7%	21/2	2¾	65/16	3%	1½	32.0	36.5
BLL5	11/2	71/4	6½	7%	21/2	2¾	65/16	3%	1½	32.0	36.5
BLL6	2	9½	8%	10¾6	31/8	3 7⁄16	83/16	315/16	1 15/16	69.5	73.8

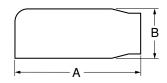












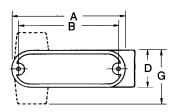
LR Form 7 and Form 8

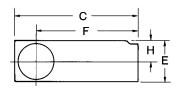
LR Fo	LR Form 7												
Cat.													
No.	Size	A	В	C	D	E	CI						
LR17	1/2	4.60	1.40	1.45	.95	3.20	4.0						
LR27	3/4	5.25	1.60	1.65	1.15	3.80	6.6						
LR37	1	6.00	1.90	2.60	1.35	4.55	10.6						
LR47	11/4	6.45	2.30	3.05	1.80	5.00	18.8						
LR57	11/2	7.90	2.60	3.80	2.05	5.45	26.4						
LR67	2	8.30	3.20	4.25	2.45	6.40	51.0						
LR77	21/2	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	31/2	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 Fo	LR Form 8												
Cat.			Dimensions (in.)										
No.	Size	A	В	C	D	E	CI						
LR18	1/2	415/16	1 7/16	25/32	1	35⁄16	4.4						
LR28	3/4	5%	111/16	25/16	13/16	315/16	8.0						
LR38	1	615/32	1 15/16	25/8	1%	4%	13.0						
LR48	11/4	711/32	23/8	35⁄32	1¾	55/16	23.6						
LR58	11/2	91/8	225/32	4	21/8	6½	45.0						
LR68	2	11	3%6	5	3	8%	88.0						
LR78	21/2	1315/16	4 1/16	611/16	41/4	10%	110.0						
LR888	3	1315/16	413/16	611/16	41/4	10%	110.0						





LR Threaded Aluminum and EMT Aluminum

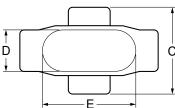
LR Threaded Aluminum												
Cat.						Dime	nsions (in	.)				
No.	Size	Α	В	C	D	E	F	G	Н	CI	CI LRL Sty	
ALR1	1/2	3%	3½	45/16	15/16	1%	3%6	2	25/32	4.3	4.8	
ALR2	3/4	4%	41/8	51/8	111/32	1%	41/8	25/16	7∕8	7.3	7.5	
ALR3	1	5%	4%	51/16	1¾	1%	4%	21/2	1	11.8	12.5	
ALR4	11/4	71/4	61/2	7%	21/2	2¾	65/16	3%	11/2	32.0	36.5	
ALR5	1½	71/4	61/2	7%	21/2	2¾	65/16	3%	11/2	32.0	36.5	
ALR6	2	9½	8%	10¾6	31/8	3 7/16	83/16	315/16	1 ¹⁵ / ₁₆	69.5	73.8	
ALR7	21/2	121/4	111/4	13	41/2	41/2	101/4	51/2	2%	190.0		
ALR8	3	121/4	111/4	13	41/2	41/2	101/4	51/2	2%	190.0		
ALR9	31/2	15	14 1/16	161/4	51/2	5½	12¾	61/2	3	366.0		
ALR10	4	15	14 7/16	161/4	51/2	5½	12¾	61/2	3	366.0		

LR EMT Aluminum													
Cat.													
No.	Size	A	В	C	D	E	F	G	Н	CI	CI LRL Styl		
BLR1	1/2	3%	3½	45⁄16	15/16	1%	3%	2	25/32	4.3	4.8		
BLR2	3/4	45/8	41/8	51/8	117/32	1%	41/8	25/16	7/8	7.3	7.5		
BLR3	1	5%	4%	55/16	1¾	1%	4%	21/2	1	11.8	12.5		
BLR4	11/4	71/4	61/2	7%	21/2	23/4	65/16	3%	1½	32.0	36.5		
BLR5	11/2	71/4	61/2	7%	21/2	2¾	65/16	3%	1½	32.0	36.5		
BLR6	2	91/2	89⁄16	10¾6	31/8	3 1/16	83/16	315/16	1 15/16	69.5	73.8		





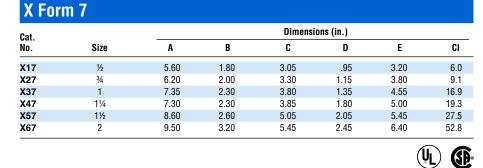


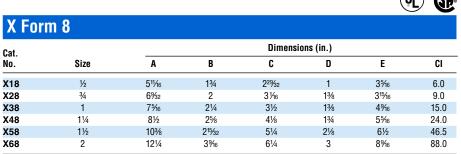


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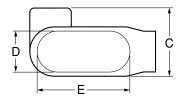
X Form 7 and Form 8

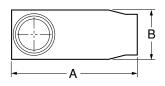






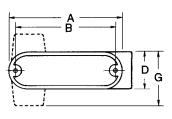


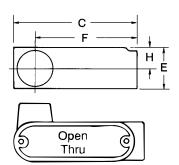




L Form 7

L Form	7					
Cat.			Dimen	sions (in.)		
No.	Size	A	В	C	D	E
L17-TB	1/2	4.60	1.40	1.45	.95	3.20
L27-TB	3/4	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	11⁄4	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





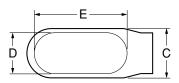
LRL Threaded Aluminum and **EMT Aluminum**

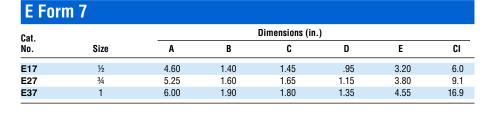
L Threaded Aluminum													
Cat.	Dimensions (in.)												
No.	Size	Α	В	C	D	E	F	G	Н	CI	CI LRL Sty		
ALRL1	1/2	3%	3½	45⁄16	1 5⁄16	1%	3%6	2	25/32	4.3	4.8		
ALRL2	3/4	45/8	41/8	51/8	117/32	1%	41/8	25/16	7∕8	7.3	7.5		
ALRL3	1	5%	4%	55/16	13/4	1%	4%	21/2	1	11.8	12.5		
ALRL4	11/4	71/4	6½	7%	21/2	2¾	65/16	3%	11/2	32.0	36.5		
ALRL5	11/2	71/4	61/2	7%	21/2	2¾	65/16	3%	11/2	32.0	36.5		
ALRL6	2	9½	8%	10¾6	31/8	3 7/16	83/16	315/16	1 ¹⁵ ⁄16	69.5	73.8		

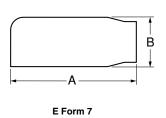
L EMT Aluminum														
Cat.		Dimensions (in.)												
No.	Size	Α	В	C	D	E	F	G	Н	CI	CI LRL Style			
BLRL1	1/2	3%	31/2	45/16	15/16	1%	3%6	2	25/32	4.3	4.8			
BLRL2	3/4	4%	41/8	51/8	117/32	1%	41/8	25/16	7/8	7.3	7.5			
BLRL3	1	5%	4%	51/16	1¾	1%	4%	21/2	1	11.8	12.5			
BLRL4	11/4	71/4	61/2	7%	21/2	2¾	65/16	3%	1½	32.0	36.5			
BLRL5	1½	71/4	61/2	7%	21/2	2¾	65/16	3%	1½	32.0	36.5			
BLRL6	2	9½	8%	10¾6	31/8	3 7⁄16	83/16	315/16	1 15/16	69.5	73.8			



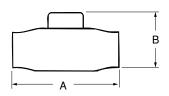
Form 7, Form 8, and Red•Dot® Conduit Outlet Bodies

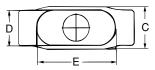






E Thre	E Threaded Aluminum											
Cat.					Dimension	s (in.)						
No.	Size	A	В	C	D	E	F	G	CI			
AE-1	1/2	3%	4%	121/64	1%	213/32	21/16	13/16	4.3			
AE-2	3/4	4%	51/8	117/32	1%	225/32	211/32	15/16	7.3			
AE-3	1	5%	5 ¹⁵ / ₁₆	1¾	1%	31⁄4	25/8	1	11.8			





TB Form 8







TB For	m 8						
Cat.				Dimensions (in.	.)		
No.	Size	A	В	C	D	E	CI
TB18	1/2	511/16	25/8	1%	1	35⁄16	6.0
TB28	3/4	6%2	2%	13/16	13/16	315/16	9.0
TB38	1	75/16	31⁄4	13/4	1%	4%	15.0
TB484	11/4	81/2	35/16	23/16	1¾	55/16	24.0
TB58	1½	10%	311/16	2¾	21/8	6½	46.5
TB68	2	121⁄4	41⁄4	3¾	3	8%	88.0

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.

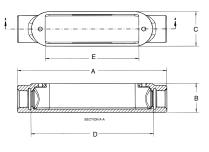
Certifications and Compliances:

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









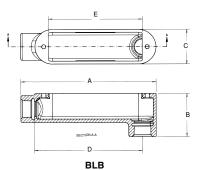
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BC Mog	jul Serie	S					
Cat.				Dimensions (in.)			
No.	Size	A	В	C	D	E	CI
ВС3-ТВ	1	9.56	1.88	2.25	7.84	6	20.0
BC4-TB	11/4	9.56	2.31	2.25	7.84	6	25.0
BC5-TB	1½	13.75	2.56	3	11.45	10	60.0
BC6-TB	2	13.75	3.31	3	11.45	10	78.0
ВС7-ТВ	21/2	18.38	3.63	4.25	15.61	15	180.0
BC8-TB	3	18.38	4.38	4.25	15.82	15	225.0
BC9-TB	31/2	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† M	ogul Ser	ies					
Cat.				Dimensi	ons (in.)		
No.	Size	A	В	C	D	E	CI
BLB3-TB	1	8.66	2.80	2.25	6.92	6	20.0
BLB4-TB	11⁄4	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	21/2	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

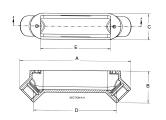


Mogul Conduit Outlet Bodies









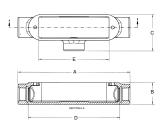
BUB

BUB Mo	gul Ser	ies					
Cat.				Dimensio	ons (in.)		
No.	Size	A	В	C	D	E	CI
BUB3-TB	1	9.49	2.75	2.25	7.01	6	20.0
BUB4-TB	11/4	9.55	3.21	2.25	6.71	6	25.0
BUB5-TB	11/2	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	21/2	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	31/2	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









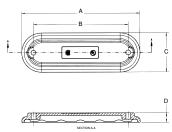
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BT Mog	jul Serie	S					
Cat.				Dimensi	ons (in.)		
No.	Size	A	В	C	D	E	CI
ВТ3-ТВ	1	9.56	1.88	3.16	7.84	6	20.0
BT4-TB	11⁄4	9.56	2.31	3.16	7.84	6	25.0
BT5-TB	11/2	13.75	2.56	4.06	11.45	10	62.0
BT6-TB	2	13.75	3.31	4.06	11.45	10	78.0
ВТ7-ТВ	21/2	18.38	3.63	5.59	15.61	15	180.0
ВТ8-ТВ	3	18.38	4.38	5.72	15.82	15	225.0
ВТ9-ТВ	31/2	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









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BG Mog	BG Mogul Series Replacement Covers										
Cat.			Dimen	sions (in.)							
No.	Size	A	В	C	D	E					
BG48T-B	1 to 11/4	8.27	6.62	2.77	.67	-					
BG68-TB	11/2 to 2	12	10.62	3.60	.82	-					
BG88-TB	2½ to 3	16.22	12.44	4.97	.85	2.75					
BG98-TB	3½ to 4	21.21	16.63	5.96	.87	3.75					

Aluminum Mogul Conduit Outlet Bodies

Meets NEC Article 370-28, 6-1 Ratio Suitable for use in Wet Locations

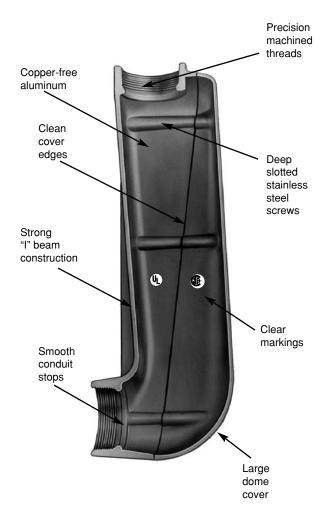


NEMA 3R





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 allow 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.

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



Aluminum Mogul Conduit Outlet Bodies

Meets NEC Article 370-28, NEMA 3R 6-1 Ratio Suitable for use in Wet Locations



MALB-3 through -6

Comple	te with Cov	er, Gasket and S	Screws – Rain	tight
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100
MALB-3	1"	1	10	174
MALB-4	11/4"	2	10	160
MALB-5	1½"	1	1	400
MAI R-6	2"	1	1	375



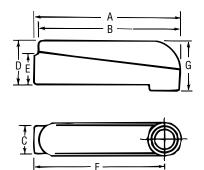
MALB-7 through -10

Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. Ibs. per 100
MALB-7	2½'	1	1	1100
MALB-8	3"	1	1	1060
MALB-9	3½"	1	1	1900
MALB-10	4"	1	1	1800



MGKV-4 through -7

Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100
MGKV-4	1" or 11/4"	1	5	3
MGKV-5	1½" or 2"	1	5	4
MGKV-6	2½" or 3"	1	5	5
MGKV-7	3½" or 4"	1	5	5



MALB

MAL	В						
Size	A	В	C	D	E	F	G
1"	9%	91/16	21/2	2¾	21/16	8½	35/8
11/4"	9%	91/16	21/2	2¾	21/16	81⁄2	35/8
1½"	1417/32	141/4	2¾	4	213/16	13	57/32
2"	1417/32	141/4	23/4	4	213/16	13	57/32
21/2"	2111/16	2113/32	41/2	5%	43/8	18	723/32
3"	2111/16	2113/32	41/2	5%	43/8	18	723/32
3½"	28%	2811/16	5½	6½	5%	24	923/32
4"	28%	2811/16	5½	6½	5%	24	923/32

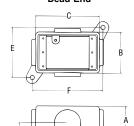
FS/FD Cast Device Boxes and Covers





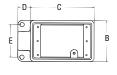


Dead-End





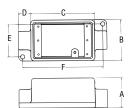
Dead-End







Thru-Feed



Application

Cast device boxes are installed to:

- Accommodate wiring devices.
- Act as pull boxes for conductors in 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 1%" 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 - 1/2" to 1" NPT

Materials

- Boxes: Class 30 Gray iron alloyCovers: 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

Shallo	Shallow Single Gang Cast Device Boxes										
Cat.		Hub		Dimensions (Inches)						Throat Dia.	
No.	Fig.	Size	Α	В	C	D	E	F	G	Min.	Max.
Dead-End											
FS019-TB	Α	Blank	2	2¾	49/32	-	3%	423/32	7/8	N/A	N/A
FS1-TB	В	1/2	2	2¾	4%2	7∕8	23/16	-	-	0.570	0.610
FS2-TB	В	3/4	2	23/4	4%2	7∕8	23/16	-	-	0.755	0.810
FS3-TB	В	1	2	2¾	4%2	7∕8	23/16	-	-	0.935	1.035
Thru-Feed											
FSC1-TB	С	1/2	2	23/4	49/32	7/8	23/16	5%	-	0.570	0.610
FSC2-TB	С	3/4	2	2¾	4%2	7∕8	23/16	5%	-	0.755	0.810
FSC3-TB	С	1	2	2¾	4%2	7∕8	23/16	5%	-	0.935	1.035

Deep S	Singl	le Gai	ng Ca	ist Do	evice	Box	es				
Cat.		Hub	Dimensions (Inches)							Throat Dia.	
No.	Fig.	Size	Α	В	C	D	E	F	G	Min.	Max.
Dead-End											
FD019-TB	Α	Blank	213/16	2¾	49/32	-	3%	423/32	1%	N/A	N/A
FD1-TB	В	1/2	213/16	2¾	4%2	7/8	23/16	-	-	0.570	0.610
FD2-TB	В	3/4	213/16	2¾	49/32	7/8	23/16	-	-	0.755	0.810
FD3-TB	В	1	213/16	2¾	4%2	7∕8	2¾6	-	-	0.935	1.035
Thru-Feed											
FDC1-TB	С	1/2	213/16	23/4	49/32	7/8	23/16	5%	-	0.570	0.610
FDC2-TB	С	3/4	213/16	23/4	49/32	7/8	23/16	5%	-	0.755	0.810
FDC3-TB	С	1	213/16	2¾	49⁄32	7∕8	2¾6	5%	-	0.935	1.035

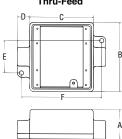


FS/FD Cast Device Boxes and Covers









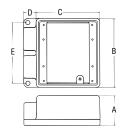
Shallo	Shallow Double Gang Cast Device Boxes										
Cat.		Hub		Dimensions (Inches)						Throat Dia.	
No.	Fig.	Size	Α	В	C	D	E	F	Min.	Max.	
Dead-End											
FS062-TB	Α	Blank	2	45%	4%2	-	41/8	51/2	N/A	N/A	
FS12-TB	В	1/2	2	45%	4%2	7/8	23/16	-	0.570	0.610	
FS22-TB	В	3/4	2	45%	4%2	7/8	23/16	-	0.755	0.810	
FS32-TB	В	1	2	45/8	4%2	7∕8	2¾6	-	0.935	1.035	
Thru-Feed											
FSC12-TB	С	1/2	2	45%	4%2	7∕8	23/16	5%	0.570	0.610	
FSC222-TB	С	3/4	2	45%	4%2	7∕8	23/16	5%	0.755	0.810	
FSC32-TB	С	1	2	4%	49⁄32	7∕8	2¾6	5%	0.935	1.035	

Deep Double Gang Cast Device Boxes										
Cat. No.		Hub	Dimensions (Inches)						Throat Dia.	
	Fig.	Size	Α	В	C	D	E	F	Min.	Max.
Dead-End										
FD062-TB	Α	Blank	213/16	45%	4%2	-	41/8	51/2	N/A	N/A
FD12-TB	В	1/2	213/16	45%	4%2	7/8	23/16	-	0.570	0.610
FD22-TB	В	3/4	213/16	45%	43/32	7/8	23/16	-	0.755	0.810
FD32-TB	В	1	213/16	4%	4%2	7∕8	2¾6	-	0.935	1.035
Thru-Feed										
FDC12-TB	С	1/2	213/16	45%	4%2	7/8	23/16	5%	0.570	0.610
FDC222-TB	С	3/4	213/16	45%	4%2	7/8	23/16	5%	0.755	0.810
FDC32-TB	С	1	213/16	45%	4%2	7/8	2¾6	5%	0.935	1.035

Cat.		Hub		Dime	ensions (Inc	ches)		Throa	Dia.
No.	Fig.	Size	Α	В	C	D	E	Min.	Max.
FSS222-TB	D	3/4	2	4%	4%2	7∕8	41/16	0.755	0.810
FDS222-TB	D	3/4	213/16	45%	4%2	7/8	41/16	0.755	0.810



Dead-End



FS/FD Cast Device Boxes and Covers







1.405 dia. hole

Single Ga	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	Rlank Cast Aluminum					

DSS100-TB

DS21-TB





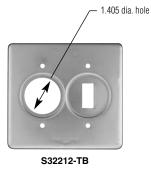
DS23-TB DS32-TB

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





S322

S1002GSA-TB

FS/FD Aluminum Device Boxes and Covers





AFS

2AFSC





CWP-G

CDR

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.

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

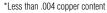
• Aluminum lacquer finish.

Compliances:

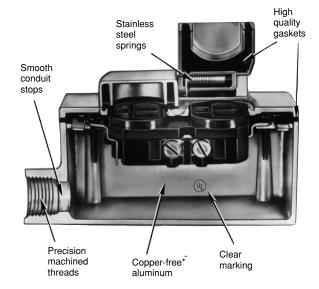
- UL Listed
- Boxes CSA Certified with factory installed ground screw **
- Covers CSA Certified
- Federal Spec. W-C-586

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 Red◆Dot® Catalog No. ______



**Consult factory for lead time and minimum quantity.





FS/FD Aluminum Device Boxes and Covers

Suitable for use in Wet Locations NEMA 3R



AFS





AFSC





AFSS

AFSCC





ADFS

ADFSC





2AFS

2AFSC

Single Gan	ig Boxes *R	aintight		
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. Ibs. per 100
Standard, 1 Hole E	Box, Dead End			
* AFS-1	1/2"	5	25	68
* AFS-2	3/4"	5	25	74
* AFS-3	1"	5	25	72
Standard, 2 Hole E	Box, Through Feed			
* AFSC-1	1/2"	5	25	72
* AFSC-2	3/4"	5	25	88
* AFSC-3	1"	5	25	79
Standard, 2 Hole E	Box, Dead End			
* AFSS-1	1/2"	5	25	80
* AFSS-2	3/4"	5	25	76
Standard, 3 Hole E	Box, Through Feed			
* AFSCC-1	1/2"	5	25	88
* AFSCC-2	3/4"	5	25	80
Deep, 1 Hole Box,	Dead End			
* ADFS-1	1/2"		5	74
* ADFS-2	3/4"		5	78
* ADFS-3	1"		5	80
Deep, 2 Hole Box,	Through Feed			
* ADFSC-1	1/2"		5	76
* ADFSC-2	3/4"		5	90
* ADFSC-3	1"		5	90

^{*}Raintight when used with appropriate Red $\bullet\, \mathsf{Dot}^{\scriptscriptstyle \circledcirc}$ covers.

Two Gang Boxes *Raintight							
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100			
Standard, 1 Hole E	Box, Dead End						
* 2AFS-1	1/2"	2	10	115			
* 2AFS-2	3/4"	2	10	95			
* 2AFS-3	1"	2	10	90			
Standard, 2 Hole E	Box, Through Feed	I					
* 2 AFSC-1	1/2"	2	10	104			
* 2AFSC-2	3⁄4"	2	10	102			
Deep, 1 Hole Box,	Dead End						
* 2ADFS-1	1/2"		3	128			
* 2ADFS-2	3/4"		3	143			
* 2ADFS-3	1"		3	129			

^{*}Raintight when used with appropriate Red • Dot® covers.



2ADFS



FSMG-TB

Multi-Gan	g Boxes *Raintight		
Cat. No.	Hub Size	Std. Pkg.	Wt. lbs. per 100
FSMG-TB	4" threadless Conduit	1	242

^{*}Raintight 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

Single Gang Covers Complete with Gasket and Screws *Raintight

Cat. No.	Description	Unit Qty.	Std. Pkg.	Wt. lbs. per 100
For Duplex Re	ceptacles, Horizontal			
* CWPDR	Duplex receptacle cover with 2 spring doors, Device Mount	1	25	40
* CWPDR-FS	Box Mount	1	25	40
For Duplex Re	ceptacles, Vertical			
* CFSDR	Box Mount	1	25	38
For GFCI Rece	ptacles Horizontal			
* CFSH-G	Box Mount	1	25	40
For GFCI Rece	ptacles Vertical			
* CWPV-G	GFCI receptacle cover 221/32" x 111/32" rectangular opening	1	25	40
	Device Mount			
* CFSR-G	Box Mount	1	25	40

^{*}Raintight when used with appropriate Red • Dot® boxes.





CWP-G

CFSH-G





CWPV-G

CFSR-G



CFSR Series

Cat. No.	Nominal Size	Max. Device Face Dia.	Unit Qty.	Std. Pkg.	Wt. Ibs per 100
or Single Rec	eptacles Vertica	l (Box Mount Only)			
CFSR-L	1%6"	1.600"	1	25	40
CFSR-S	13⁄8"	1.395"	1	25	40
CFSR-X	127/32"	1.865"	1	25	40
CFSR-XL	21/8"	2.145"	1	25	40
CFSR-Y	1¾"	1.750	1	25	40

^{*}Raintight when used with appropriate Red • Dot® boxes.

FS/FD Aluminum Device Boxes and Covers





CFST **CFSTF**



CFSB

Single Gang Covers Complete with Gasket and Screws *Raintight

9				
Cat. No.	Description	Unit Qty.	Std. Pkg.	Wt. Ibs. 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 Red • Dot® boxes.

FS/FD Aluminum Device Boxes and Covers

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





2CWPDR

2CWTDR





2CWPR-M

2CFSR-M





Two Gang Covers Complete with Gasket and Screws *Raintight

Cat. No.	Description	Unit Qty.	Std. Pkg.	Wt. Ibs. per 100
For Two Duple	ex Receptacles			
* 2CWPDR	Two Duplex Receptacle Cover with 2 Spring Doors,	1	10	48
	Device Mount			
For Switch an	nd Duplex Receptacle			
* 2CWTDR	Switch and Duplex Receptacle Cover, Box/Device Mount	1	10	48
For Single Red	ceptacle			
* 2CWPR-M	Single Receptacle Cover, Hole Dia. 21/4", Device Mount	1	10	48
* 2CFSR-M	Single Receptacle Cover, Hole Dia. 21/4", Box Mount	1	10	48
For Two Switc	hes			
* 2CFST	Plunger Style Switch Cover, Box Mount	1	10	26
Blank				
* 2CFSB	Blank Cover, Box Mount	10	50	25

^{*}Raintight when used with appropriate Red • Dot® boxes.



FS/FD Aluminum Device Boxes and Covers





CTS





Single G	ang Covers	Complete with	Gasket an	id Scre	ws
Cat. No.	Desc	ription	Unit Qty.	Std. Pkg.	Wt. lbs. per 100
For Duplex Re	ceptacles				
CDR	Duplex receptacle C	over, Box Mount	20	100	11
For Switches					
CTS	Switch Cover, Box N	Nount	20	100	14
Cat. No.	Nominal Size	Max. Device Face Dia.	Unit Qty.	Std. Pkg.	Wt. lbs. per 100
For Single Rec	eptacles (Box Mou	nt Only)			
CRL	1%6"	1.600"	20	100	12
CRS	1%"	1.395"	20	100	12
CRX-L	21/8"	2.145"	20	100	12
Cat. No.	Desc	ription		Std. Pkg.	Wt. lbs. per 100
Gasket					
FS-GKV	٥.	tion Gasket		100	2





2CDR

2CTDR



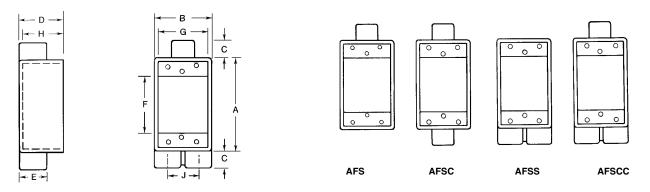
2FS-GKV



Two G	ang Covers Complete with Gas	ket 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 Sv	vitches								
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					

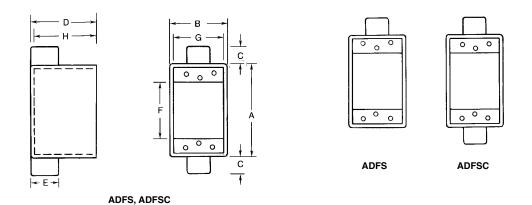
FS/FD Aluminum Device Boxes and Covers

Dimensions and Cubic Inches (CI) Single Gang Boxes



AFS, AFSC, AFSS, AFSCC

Cat. No.	Hub Size	A	В	C	D	E	F	G	Н	J	CI
AFS-1	1/2"	4%	213/16	13/16	21/16	11/8	2%	2%6	1 ¹⁵ ⁄16		21.6
AFS-2	3/4"	4%	213/16	13/16	21/16	111/16	21/8	2%	1 15/16		21.6
AFS-3	1"	4%	213/16	13/16	21/16	1 ¹¹ ⁄ ₁₆	21/8	2%	1 15/16		21.6
AFSC-1	1/2"	4%	213/16	13/16	21/16	11/8	21/8	2%6	1 15/16		21.6
AFSC-2	3/4"	4%	213/16	13/16	21/16	111/16	21/8	2%6	1 15/16		21.6
AFSC-3	1"	4%	213/16	13/16	21/16	1 ¹¹ ⁄ ₁₆	21/8	2%6	1 15/16		21.6
AFSS-1	1½"	4%	213/16	13/16	21/16	1%	21/8	2%6	1 15/16	1½	21.6
AFSS-2	3/4"	4%	213/16	13/16	21/16	1%	21/8	2%6	1 15/16	11/2	21.6
AFSCC-1	1/2"	4%	213/16	13/16	21/16	1%	2%	21/16	1 15/16	11/2	21.6
AFSCC-2	3/4"	4%	213/16	13/16	21/16	1%	21/8	2%6	1 15/16	1½	21.6

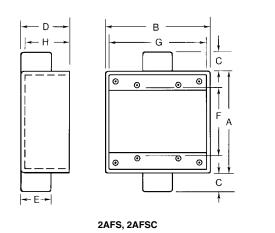


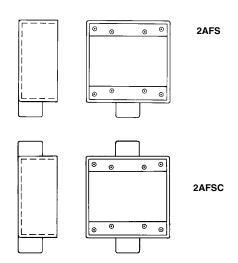
Cat. No.	Hub Size	A	В	C	D	E	F	G	н	CI
ADFS-1	1/2"	4%	213/16	7/8	31⁄16	11/8	2%	2%	215/16	31.3
ADFS-2	3/4"	4%	213/16	7/8	31/16	111/16	21/8	2%6	215/16	31.3
ADFS-3	1"	4%	213/16	7/8	31/16	111/16	2%	2%6	215/16	31.3
ADFSC-1	1½"	4%	213/16	7/8	31/16	11/8	21/8	2%6	215/16	31.3
ADFSC-2	3/4"	4%	213/16	7/8	31/16	111/16	2%	2%6	215/16	31.3
ADFSC-3	1"	4%	213/16	7∕8	31/16	111/16	2%	21/16	215/16	31.3



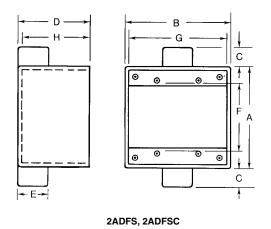
FS/FD Aluminum Device Boxes and Covers

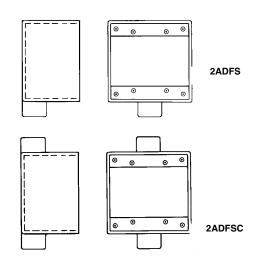
Dimensions and Cubic Inches (CI) Two Gang Boxes





Cat. No.	Hub Size	A	В	C	D	E	F	G	Н	CI
2AFS-1	1/2"	4%	4%	13/16	21/16	1%	2%	43/8	1 ¹⁵ ⁄16	36.0
2AFS-2	3/4"	4%	45%	13/16	21/16	1%	27/8	43/8	115/16	36.0
2AFS-3	1"	4%	45%	7∕8	21/16	111/16	21/8	43/8	115/16	36.0
2AFSC-1	1/2"	4%	45%	13/16	21/16	1%	21/8	43/8	115/16	36.0
2AFSC-2	3/4"	4%	4%	13/16	21/16	1%	21/8	43/8	1 15/16	36.0



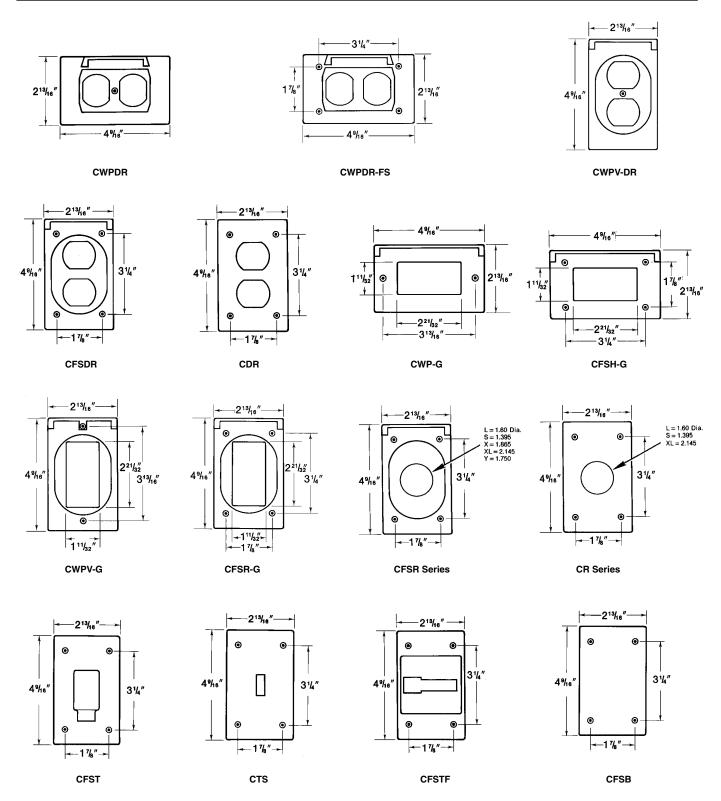


Cat. No.	Hub Size	A	В	C	D	E	F	G	Н	CI
2ADFS-1	1/2"	4%	45%	13/16	33⁄32	1%	21/8	43%	231/32	54.0
2ADFS-2	3/4"	4%	45/8	13/16	33/32	1%	2%	43/8	231/32	54.0
2ADFS-3	1"	4%	45/8	7∕8	33⁄32	1 ¹¹ ⁄ ₁₆	2%	4%	231/32	54.0
2ADFSC-2	3/4"	4%	45/8	13/16	33/32	1%	21/8	43/8	231/32	54.0
2ADFSC-3	1"	4%	45%	7/8	33⁄32	111/16	21/8	43/8	231/32	54.0



FS/FD Aluminum Device Boxes and Covers

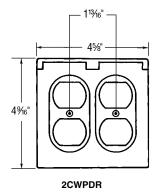
Dimensions Single Gang Covers

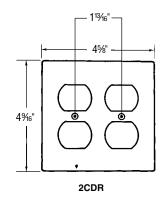


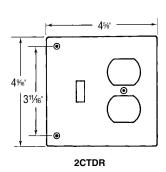


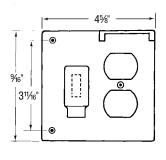
FS/FD Aluminum Device Boxes and Covers

Dimensions Two Gang Covers

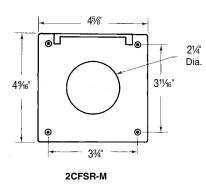


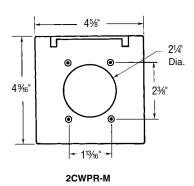


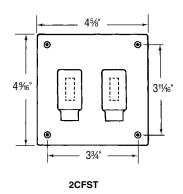


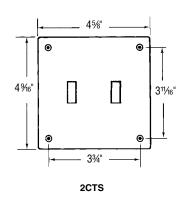


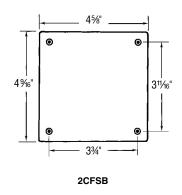
2CWTDR







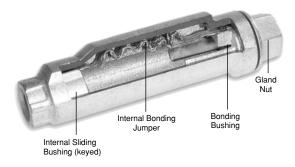




Conduit Expansion Coupling



8" Movement



4" Movement

XJG-TB Rigid Conduit Expansion Coupling

No Disassembly Required.

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. T&B introduces the new, 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.

The new XJG-TB Rigid Conduit Expansion Coupling also packs an added punch: It's the only fitting of its kind that features a true internal bonding jumper. This eliminates the need for additional external bonding jumpers, so there's 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 new 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.



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

With a wrench, tighten the gland

nut to compress the Teflon packing, creating a rain-tight seal around the conduit.

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

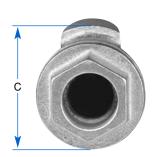


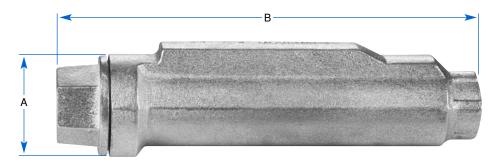
Thread the next length of conduit into the other end of the fitting and tighten. You're done!





Conduit Expansion Coupling





XJG Conduit Expansion Coupling

Cat No.	Size	Movement	A Diameter	B Length	C Height
XJG24-TB	3/4"	4"	2.43	10.00	2.75
XJG28-TB	3/4"	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	11/4"	4"	3.36	10.56	3.68
XJG48-TB	11/4"	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	21/2"	4"	4.96	12.12	5.25
XJG78-TB	21/2"	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	31/2"	4"	6.37	12.87	6.75
XJG98-TB	31/2"	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





Listed / Certified By:

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

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

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 continous 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

Standard Materials / Finish

Body Malleable or Ductile Iron, available PVC Coated

Internal Bonding Jumper . . . Tinned Copper Braid

 $\textbf{Exterior and Interior Finish} \quad \text{. Zinc Plating, Aluminum Acrylic Paint}$

Packing PTFE/Synthetic Fiber Material

(Teflon®) Coated)











Our complete line makes specifying easy too.

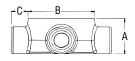
Thomas & Betts offers a wide variety of quality fittings suitable for outdoor use and hazardous locations.

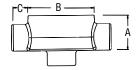


Conduit Outlet Boxes Explosionproof, Dust-Ignitionproof

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 Explosionproof
Dust-Ignitionproof
Raintight
Wet Locations









GUA



GUAB



GUAC



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.

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.

Size Range

- 1/2" 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

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





GUA Conduit Outlet Boxes Dimensions (Inches) Throat Dia Cat. Hub Cubic In. No. Size Α В C D Min. Max. Capacity GUA14-TB 113/16 21/2 7/8 111/16 5.5 1/2 570 .610 **GUA16-TB** 1/2 3½ .570 .610 13.5 7/8 **GUA24-TB** 3/4 2 21/2 7/8 1% .755 .810 5.3 **GUA26-TB** 3/4 2 31/2 7∕8 2 .755 .810 13.3 **GUA36-TB** 1 25/16 31/2 7/8 25/16 .935 1.035 16.2 **GUA47-TB** 11/4 211/16 43/8 223/32 1.260 1.360 29 GUA59-TB 11/2 313/16 5¾ 11/16 351/64 1.470 1.590 70 **GUAB14-TB** 1/2 21/4 21/2 7/8 2%4 .570 .610 69 GUAB16-TB 1/2 13.5 2 31/2 % .570 .610 GUAB24-TB 3/4 21/2 21/2 7/8 23/8 .755 .810 7.9 **GUAB26-TB** 3/4 3½ 2 .755 .810 13.5 7/8 GUAB36-TB 25/16 215/16 935 1 035 1 31/2 1 15.4 **GUAB47-TB** 11/4 211/16 4% 1 223/32 1.260 1.360 27.5 **GUAB59-TB** 313/16 11/16 351/64 1.590 11/2 53/4 1 470 73 6 **GUAB69-TB** 2 41/16 53/4 11/16 43/64 1.880 2.047 80 GUAB79-TB 21/2 41/16 5¾ 11/8 43/64 2.320 2.380 98 21/4 21/2 7/8 .610 6.8 GUAC14-TB 1/2 2%4 .570 GUAC16-TB 1/2 2 31/2 7∕8 .570 .610 13.1 **GUAC24-TB** 3/4 2 21/2 7/8 1% 755 .810 5.3 **GUAC26-TB** 3/4 31/2 7∕8 .755 .810 13.3 GUAC36-TB 25/16 3½ 25/16 .935 1.035 16.2 1 7/8 GUAC47-TB 11/4 211/16 4% 223/32 1.260 1.360 29.3 1 **GUAC49-TB** 11/4 313/16 53/4 313/16 1.260 1.360 73.6 313/16 **GUAC59-TB** 11/2 313/16 53/4 11/16 1.470 1.590 74 **GUAC69-TB** 2 41/16 53/4 11/16 43/64 1.880 2.047 77.8 GUAD14-TB 1/2 113/16 21/2 7/8 111/16 .570 .610 5.6 **GUAD16-TB** 1/2 7∕8 2 .570 .610 12.5 31/2 **GUAD24-TB** 3/4 2 21/2 7/8 1% .755 .810 5.2 GUAD26-TB 3/4 2 31/2 % 2 .755 .810 13.1 **GUAD36-TB** 1 25/16 3½ 7∕8 25/16 .935 1.035 16 **GUAD49-TB** 11/4 313/16 53/4 313/16 1.260 1.360 76



Conduit Outlet Boxes Explosionproof, Dust-Ignitionproof

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 Explosionproof Dust-Ignitionproof Raintight Wet Locations



GUAL



GUAM



GUAN



GUAT



GUAW



GUA Con	duit O	utlet E	Boxes (contin	ued)			
Cat.	Hub		Dimensio	ns (Inches)		Thro	at Dia.	Cubic In.
No.	Size	Α	В	C	D	Min.	Max.	Capacity
GUAL14-TB	1/2	21/4	2½	7/8	2%4	.570	.610	7.1
GUAL16-TB	1/2	2	3½	7/8	2	.570	.610	13.4
GUAL24-TB	3/4	2	21/2	7/8	1%	.755	.810	5.3
GUAL26-TB	3/4	2	3½	7∕8	2	.755	.810	13.3
GUAL36-TB	1	25/16	3½	7∕8	25/16	.935	1.035	16.2
GUAL47-TB	11/4	211/16	43/8	1	223/32	1.260	1.360	30
GUAL49-TB	11/4	313/16	5¾	1	351/64	1.260	1.360	74.5
GUAL59-TB	1½	313/16	5¾	1 1/16	351/64	1.470	1.590	74
GUAL69-TB	2	41/16	5¾	1 1/16	43/64	1.880	2.047	77.8
GUAM14-TB	1/2	113/16	21/2	7/8	111/16	.570	.610	5.6
GUAM16-TB	1/2	2	3½	7∕8	2	.570	.610	12.5
GUAM24-TB	3/4	2	21/2	7∕8	1%	.755	.810	6.2
GUAM26-TB	3/4	2	3½	7∕8	2	.755	.810	12.5
GUAM36-TB	1	25/16	31/2	7∕8	25/16	.935	1.035	14
GUAM47-TB	11/4	211/16	4%	1	223/32	1.260	1.360	29.2
GUAM69-TB	2	41/16	5¾	11/16	43/64	1.880	2.047	80
GUAN14-TB	1/2	21/8	21/2	7∕8	2	.570	.610	6.8
GUAN16-TB	1/2	2	3½	7∕8	2	.570	.610	13.5
GUAN24-TB	3/4	25/16	21/2	7∕8	2¾6	.755	.810	7.7
GUAN26-TB	3/4	2	31/2	7∕8	2	.755	.810	14
GUAN36-TB	1	25/16	3½	7∕8	25/16	.935	1.035	16.9
GUAN47-TB	11⁄4	211/16	43/8	1	223/32	1.260	1.360	31.5
GUAN59-TB	1½	41/16	5¾	1 1/16	43/64	1.470	1.590	84
GUAN69-TB	2	4 1/16	5¾	1 1/16	43/64	1.880	2.047	84
GUAT14-TB	1/2	21/4	21/2	7/8	27/64	.570	.610	7
GUAT16-TB	1/2	2	3½	7⁄8	2	.570	.610	13.5
GUAT24-TB	3/4	2	21/2	7⁄8	1%	.755	.810	5.3
GUAT26-TB	3/4	2	3½	7∕8	2	.755	.810	13.3
GUAT36-TB	1	25/16	3½	1	25/16	.935	1.035	15.9
GUAT37-TB	1	25/16	3½	7∕8	25/16	.935	1.035	23.3
GUAT47-TB	11/4	211/16	4%	1	223/32	1.260	1.360	29.3
GUAT49-TB	11/4	313/16	5¾	1	351/64	1.260	1.360	77.2
GUAT59-TB	1½	313/16	5¾	11/16	351/64	1.470	1.590	77.7
GUAT69-TB	2	41/16	5¾	1 1/16	351/64	1.880	2.047	77.8
GUAT79-TB	21/2	41/16	5¾	11/16	43/64	2.320	2.380	95
GUAW14-TB	1/2	113/16	2½	7/8	111/16	.570	.610	5.2
GUAW16-TB	1/2	2	3½	7/8	2	.570	.610	13
GUAW24-TB	3/4	2	2½	7/8	1%	.755	.810	6.5
GUAW26-TB	3/4	2	3½	7/8	2	.755	.810	13
GUAX14-TB	1/2	1 13/16	21/2	7∕8	111/16	.570	.610	5.2
GUAX16-TB	1/2	2	31/2	7∕8	2	.570	.610	13.5
GUAX24-TB	3/4	2	21/2	7∕8	1%	.755	.810	5.3
OLIA VOC TO	3/	0	01/	7/	0	755	040	40.0

GUA Conduit Device Box Replacement Covers

31/2

31/2

31/2

43/8

5¾

53/4

53/4

2

25/16

25/16

211/16

313/16

313/16

41/16

1

1

11/4

11/4

1½

2

Cat. No.	Opening Dia.	
GUA04-TB	2	
GUA06-TB	3	
GUA07-TB	35%	
GUA09-TB	5	

1

7/8

1

11/16

11/16

2

25/16

25/16

247/64

351/64

351/64

43/64

.755

.935

.935

1.260

1.260

1.470

1.880

.810

1.035

1.035

1.360

1.360

1.590

2.047

13.3

16

23.3

30

72

71

77.8



GUAX26-TB

GUAX36-TB

GUAX37-TB

GUAX47-TB

GUAX49-TB

GUAX59-TB

GUAX69-TB

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



Explosionproof
Dust Ignition-proof
Raintight
Wet Locations







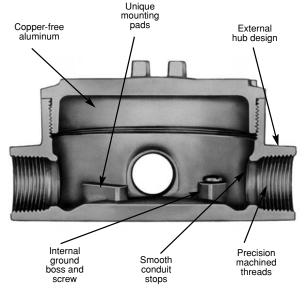
GAX



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 allow 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
- 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 Explosionproof
Dust Ignition-proof
Raintight
Wet Locations

External Hubs with Installed Green Ground Screw





GAE



GAL



GALB



ЗΔТ

Through Feed with Surface Cover						
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100		
GAC-1	1/2"	1	5	115		
GAC-2	3/4"	1	5	115		
• GAC-3	1"	1	5	115		
▶ GAC-4	11⁄4"	1	5	175		
• GAC-5	1½"	1	4	247		
• GAC-6	2"	1	4	253		

Dead End with Surface Cover						
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100		
• GAE-1	1/2"	1	5	110		
• GAE-2	3/4"	1	5	110		
• GAE-3	1"	1	5	110		

L Style with Surface Cover					
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100	
GAL-1	1/2"	1	5	115	
GAL-2	3/4"	1	5	115	
• GAL-3	1"	1	5	115	
▶ GAL-4	11/4"	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	1/2"	1	5	115		
GALB-2	3/4"	1	5	115		
GALB-3	1"	1	5	115		
• GALB-4	11⁄4"	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. Ibs. per 100		
GAT-1	1/2"	1	5	120		
GAT-2	3/4"	1	5	120		
GAT-3	1"	1	5	120		
D GAT-4	11⁄4"	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.



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

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 Explosionproof
Dust Ignition-proof
Raintight
Wet Locations

External Hubs with Installed Green Ground Screw and Covers



GAX



GAFX



GAS



GAD

X Style with Surface Cover						
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100		
† GAX-1	1/2"	1	5	125		
† GAX-2	3/4"	1	5	125		
† GAX-3	1"	1	5	125		
† • GAX-4	11/4"	1	5	210		
† • GAX-5	1½"	1	4	257		
† • GAX-6	2"	1	4	413		

X Style with Flange and Surface Cover						
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. Ibs. per 100		
† GAFX-1	1/2"	1	4	135		
† GAFX-2	3/4"	1	4	135		
† GAFX-3	1"	1	4	135		

Surface Style Cover					
Cat. No.	Cover Opening	Fits Boxes	Std. Pkg.	Wt. Ibs. per 100	
• GAS-123	311/16"	1⁄2", 3⁄4", 1"	1	36	
• GAS-4	329/32"	11⁄4"	1	52	
• GAS-56	5¾6"	1½", 2"	1	69	

Dome Style Cover (Class I, Group D only)							
Cat. No.							
• GAD-123	311/16"	1⁄2", 3⁄4", 1"	25%"	1	71		

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.



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

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 Explosionproof
Dust Ignition-proof
Raintight
Wet Locations

External Hubs with Installed Green Ground Screw, Covers and Plugs



GAJU



GAJ

U Style	U Style with Canopy Cover									
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100						
• GAJU-1	1/2"	1	5	130						
• GAJU-2	3/4"	1	5	130						
GAJU-3	1"	1	5	130						
• GAJU-5	11/2"		1	267						
GAJU-6	2"		1	273						

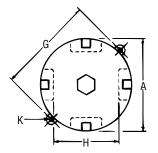
Canopy	Style Cove	r			
Cat. No.	Cover Opening	Fits Boxes	Unit Qty.	Std. Pkg.	Wt. lbs. per 100
• GAJ-123	311/16"	1/2", 3/4", 1"	1	10	44
• GAJ-4	329/32"	11⁄4"	1	5	61
• GAJ-56	5¾6"	1½", 2"	1	5	78

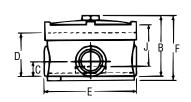
[•] Made to order items. Consult factory for lead time and minimum quantities.

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

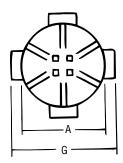
Dimensions and Cubic Inches (CI)

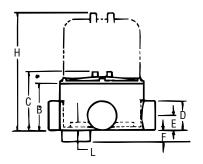
CI.I, Div. 1 & 2, Groups C, D CI.II, Div. 1, Groups E, F, G CI.III, Div. 1 & 2 NEMA 3, 4, 7 CD, 9 EFG Explosionproof Dust Ignition-proof Raintight Wet Locations





EXUN	& EXUN	L									
Hub Size	A	В	C	D	E	F	G	Н	J	K	CI
1/2"	3 31/32"	31⁄8"	2 21/32"	2 1/16"	4	3%"	41⁄4"	11⁄4"	1%6"	17/64"	20.3
3/4"	3 31/32"	31/8"	2 21/32"	2 1/16"	4	3%"	41/4"	11/4"	19/16"	17/64"	20.3
1"	3 31/32"	35/16"	3/4"	21⁄4"	4	3%6"	41⁄4"	11/16"	1%6"	17/64"	20.0





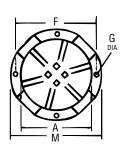


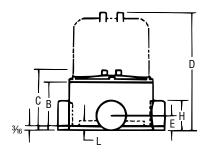
GAC,	GAE, (GAL, G	ALB, G	AT, GAX									
Cover Opening	Hub Size	A	В	C	D	E	F	G	Н	J	K	L	CI
311/16"	1/2"	4"	21/4"	215/16"	1%"	11/16"	11/16"	5¾6"	5%6"	43/16"	35/16"	9/16"	18.8
311/16"	3/4"	4"	21/4"	215/16"	13/8"	11/16"	11/16"	5¾6"	5%6"	43/16"	35/16"	9/16"	18.8
311/16"	1"	4"	21/4"	215/16"	15/8"	13/16"	27/32"	5½"	5%6"	43/16"	35/16"	9/16"	18.8
329/32"	11/4"	45/16"	3"	311/16"	21/16"	11/32"	7/8"	511/16"	-	49/16""	315/16"	5/8"	28.0
5¾6"	11/2"	5¾"	41/4"	51/16"	2%"	1 7⁄16"	7⁄8"	65%"	-	6 7/16"	515/32"	13/16"	69.3
5¾6"	2"	5¾"	41/4"	51/16"	2%"	1 7/16"	7/8"	6%"	-	6 1/16"	515/32"	¹³ / ₁₆ "	69.3

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 Explosionproof
Dust Ignition-proof
Raintight
Wet Locations

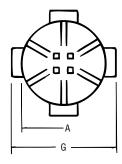
Dimensions and Cubic Inches (CI)

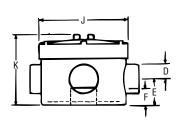




GAFX												
Cover Opening	Hub Size	A	В	С	D	E	F	G	н	L	М	CI
311/16"	1/2"	4"	21/4"	215/16"	5%6"	11/16"	4½"	1/4"	1%"	9/16"	5¾6"	20.0
311/16"	3/4"	4"	21/4"	215/16"	5%6"	11/16"	41/2"	1/4"	13/6"	9/16"	5¾6"	20.0
311/16"	1"	4"	21/4"	215/16"	5%6"	13/16"	4¾"	5/16"	1%"	9/16"	5½"	19.0

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
311/16"	1/2"	4"	13/16"	1½"	31/32"	5¾6"	43/16"	4"	23.8
311/16"	3/4"	4"	13/16"	11/2"	31/32"	5¾6"	43/16"	4"	23.8
311/16"	1"	4"	13/ ₁₆ "	1½"	31/32"	5¾6"	43/16"	4"	23.8
329/32"	11⁄4"	45/16"	21/16"	11/32"	7∕8"	511/16"	4¾"	315/16"	33.3
5¾6"	1½"	5¾"	1 7/16"	21/16"	1½"	65%"	6 7/16"	6¾6"	82.8
5¾6"	2"	5¾"	1 7/16"	21/16"	1½"	65%"	6 %6"	6¾6"	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

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 Explosionproof
Dust Ignition-proof
Raintight
Wet Locations







- 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 allow 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

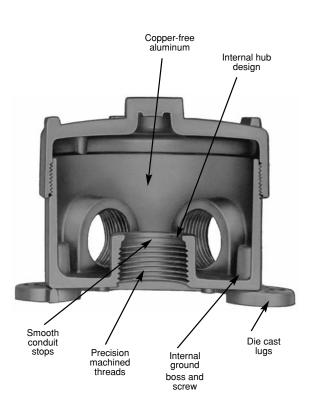
Outlet boxes for hazardous locations shall be die cast copper-free* aluminum alloy A360 and suitable for use in Class I, Groups C, D, Class II, Groups E, F, G and Class III areas. All conduit stops shall be coined and free of rough edges. Outlet boxes for hazardous locations shall be finished with aluminum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

*Less than .004 copper content.









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

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 Explosionproof
Dust Ignition-proof
Raintight
Wet Locations

Internal Hubs with Installed Green Ground Screw



EXUN-1



EXUN-11

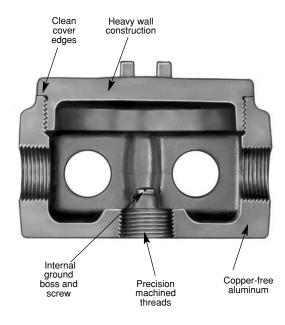
5 Hole Box										
Cat. No.	Hub Size	Description	Unit Qty.	Std. Pkg.	Wt. lbs. per 100					
EXUN-1	1/2"	5 outlets	1	5	140					
EXUN-2	3/4"	with 3 close-up plugs	1	5	140					
EXUN-3	1"	with 3 close-up plugs	1	5	140					

4 Hole E	Box				
Cat.	Hub	Description	Unit	Std.	Wt. lbs.
No.	Size		Qty.	Pkg.	per 100
EXUN-11	½"	4 outlets	1	5	140
EXUN-22	¾"	with 2 close-up plugs		5	140

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



GASS



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 Explosionproof
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.

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 allow 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 allows 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 Red*Dot* Catalog No. ______

*Less than .004 copper content.



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

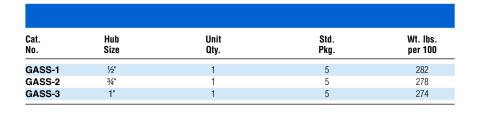
CI.I, Div. 1 & 2, Groups C, D CI.II, Div. 1, Groups E, F, G CI.IIÍ, Div. 1 & 2 NEMA 3, 4, 7 CD, 9 EFG

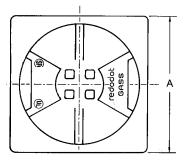
Explosionproof Dust Ignition-proof Raintight Wet Locations

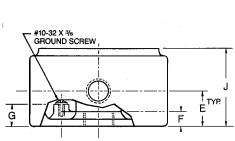
Internal Hubs with Installed Green Ground Screw, **Cover and Plugs**

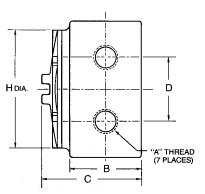












Dimensions of all styles when GASS cover is used

GASS											
Cover Opening	Hub Size	A	В	C	D	E	F	G	Н	J	CI
4"	1/2"	4%	2%	3%	2¾6	13/16	1/2	3/4	4	2%	31
4"	3/4"	45%	23/8	3%	23/16	13/16	1/2	3/4	4	25/8	31
4"	1"	45%	2¾	3%	2¾6	1¾6	1/2	3⁄4	4	25/8	31

Precision

machined

threads and

surfaces

Smooth conduit

stops

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

Deep

slotted

Heavy wall construction

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

Explosionproof **Dust Ignition-proof** Raintight Wet Locations







- 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 allow 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.

• 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.



Copper-free

(U) SE





LB Style Co	onduit Body – Al	uminum	
Cat. No.	Hub Size	Std. Pkg.	Wt. lbs. per 100
EXLB-1	1/2"	5	76
EXLB-2	3/4"	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	1/2"	5	25	92
EXT-2	3/4"	5	25	115
EXT-3	1"		5	172



Conduit Outlet Bodies Explosionproof, Dust-Ignitionproof

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 Explosionproof
Dust-Ignitionproof
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

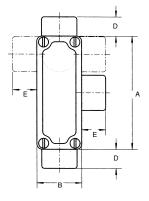
• Electrogalvanized and aluminum acrylic paint.

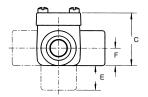
Size Ranges

• Hub - 1/2" and 3/4"

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 Seri	ies – Ir	on Condi	uit Outlet	Bodies			
Cat. No.	Hub Size	A	В	C	D	E	F
OEC1-TB	1/2"	4.06	1.62	1.90	0.69	0.88	0.63
OEC2-TB	3/4"	4.35	1.88	2.19	0.69	0.88	0.76
OET1-TB	1/2"	4.06	1.62	1.90	0.69	0.88	0.63
OET2-TB	3⁄4"	4.35	1.88	2.19	0.69	0.88	0.76
OELL1-TB	1/2"	4.06	1.62	1.90	0.69	0.88	0.63
OELL2-TB	3/4"	4.35	1.88	2.19	0.69	0.88	0.76
OELR1-TB	1/2"	4.06	1.62	1.90	0.69	0.88	0.63
OELR2-TB	3/4"	4.35	1.88	2.19	0.69	0.88	0.76
OELB1-TB	1/2"	4.06	1.62.	1.90	0.69	0.88	0.63
OELB2-TB	3/4"	4.35	1.88	2.19	0.69	0.88	0.76



Conduit Outlet Elbows Explosionproof, Dust-Ignitionproof

Cl.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

Explosionproof **Dust-Ignitionproof** Raintight Wet Locations

Conduit Bodies and Capped Elbows

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.

- 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.

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

Class III

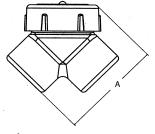
Class I, Division 1 & 2, Groups C,D

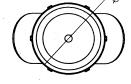
Class II, Division 1, Groups F,G

Class III



LBY





LBY Elbows have:

- Maximum volume for bends within a compact over-
- 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.



(Ur)

Capped	Capped Iron Elbow – Female to Female					
Cat.	Hub			Throa	t Dim.	
No.	Size	Α	В	Min	Max	
LBY15-TB	1/2	2%6	2	0.570	0.610	
LBY25-TB	3/4	213/16	21/4	0.755	0.810	
LBY35-TB	1	3¾32	21/2	0.955	1.035	
LBY45-TB	11/4	3¾	215/16	1.260	1.360	
LBY55-TB	1½	41/4	3%	1.470	1.590	
LBY65-TB	2	5½	4	1.880	2.047	



GYF

				YL)
Capped Aluminum Elbow – Female to Female				
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100
GYF-1	1/2"	10	50	23
GYF-2	3/4"	5	25	40
GYF-3	1"	5	25	60
• GYF-4	11⁄4"	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 **Explosionproof, Dust-Ignitionproof**

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

Dust-Ignitionproof





- 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.

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

For hazardous and non-hazardous locations



Cat. A Male **B** Female (NPT) (NPT) RE21-TB RE31-TB 1/2 RE32-TB 3/4 RE41-TB 11/4 1/2 RE42-TB 11/4 3/4 RE43-TB 11/4 RE51-TB 11/2 1/2 RE52-TB 11/2 3/4 RE53-TB 11/2 1 RE54-TB 11/2 11/4 2 RE61-TB 1/2 RE62-TB 3/4 2 RE63-TB 2 RE64-TB 11/4 RE65-TB 2 11/2 RF73-TR 21/2 1 RE74-TB 21/2 11/4 RE75-TB 21/2 1½ RE76-TB 21/2 2 RE83-TB 3 RE84-TB 3 11/4 RE85-TB 3 11/2 RE86-TB 3 2 RE87-TB 3 21/2 RE96-TB 31/2 2 RE97-TB 21/2 31/2 RE98-TB 4 3 RE106-TB

Reducing Bushings



RE107-TB

RE108-TB

REC Series Reducers

21/2

Cat.	A	B	C
No.	(NPT)	(NPT)	

Funnel Shaped Reducers for

Hazardous and Non-Hazardous



Locations			
REC21-TB	3/4	1/2 - 14	1%
REC31-TB	1	1/2 - 14	2
REC32-TB	1	34 - 14	2



Cat. No.	Threads (NPT)	
With Flush Head for Hazardous and Non-Hazardous Locations		
PLG1-TB	1/2	
PLG2-TB	3/4	
PLG3-TB	1	
PLG4-TB	11/4	
PLG5-TB	1½	
PLG6-TB	2	
LG7-TB	21/2	
LG8-TB	3	
LG9-TB	31/2	
PLG10-TB	4	



Aluminum Recessed Plugs

Hub

No. Size				
With Flush Head for Hazardous and Non-Hazardous Locations				
XPLG-1†	1/2"			
XPLG-2†	3/4"			
XPLG-3†	1"			
XPLG-4*	11/4"			
XPLG-5*	1½"			
XPLG-6*	2"			
XPLG-7*	2½"			
XPLG-8*	3"			
XPLG-9*	31/2"			
XPLG-10*	4"			

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

† Not U.L. Listed

Cat.

* U.L. Listed E 34438



Three-Piece Couplings Explosionproof, Dust-Ignitionproof

CI.I, Div. 1 & 2, Groups A,B,C,D CI.II, Div. 1, Groups E, F, G CI.III, Div. 1 & 2 Explosionproof Dust-Ignitionproof







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 1/2" - 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 11/4", 11/2"

• 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", 21/2", 3", 31/2", 4"



Three-Piece Couplings Explosionproof, Dust-Ignitionproof

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

Explosionproof Dust-Ignitionproof Raintight Wet Locations (UL)

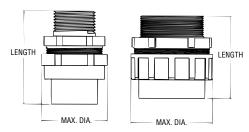






UNY

Cat.	TD 0:	Overall	Overall		
No.	TR Size	Length/Inches	Dia./Inches		
For Hazardous and No	or Hazardous and Non-Hazardous Locations				
UNY105-TB	1/2	225/64	1½		
UNY205-TB	3/4	2 7/16	1 13/16		
UNY305-TB	1	2¾	2		
JNY405-TB	11/4	31⁄16	2¾		
UNY505-TB	1½	35%	31/16		
UNY605-TB	2	3½	313/16		
UNY705-TB	21/2	4 ¹³ ⁄ ₁₆	45/16		
JNY805-TB	3	511/32	51/16		
JNY905-TB	31/2	5½	511/16		
UNY1005-TB	4	5%	63/16		





UNF

Cat. No.	TR Size	Overall Length/Inches	Overall Dia./Inches
For Hazardous and No	n-Hazardous Locations		
UNF105-TB	1/2	1%	1½
JNF205-TB	3/4	21/8	113/16
JNF305-TB	1	25/32	2
JNF405-TB	1¾	21⁄4	23/4
JNF505-TB	1½	2¾	31/16
JNF605-TB	2	2½	313/16
UNF705-TB	2½	3½	45/16
UNF805-TB	3	4	51/16
UNF905-TB	3½	45⁄32	511/16
JNF1005-TB	4	41⁄4	6¾6





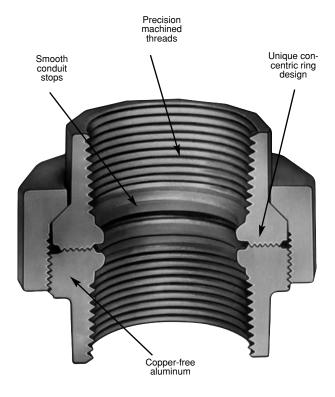
Aluminum Three-Piece Couplings Explosion-Proof, Dust-Ignition-Proof



EXFU



EXMU



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 Explosionproof

Dust Ignition-proof

Raintight

Wet Locations (UL)



Application

 Unions are used as connecting elements between enclosures, fittings or boxes which 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 Red●Dot® Catalog No. ______

*Less than .004 copper content.



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

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 Explosionproof
Dust Ignition-proof
Raintight
Wet Locations



Male and Female Unions



EXFU



EXMU

Female to Female					
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100	
EXFU-1	1/2'	5	25	24	
EXFU-2	3/4"	5	25	33	
EXFU-3	1"	5	25	42	
EXFU-4	11/4"	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	

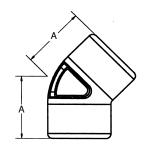


Male to Female				
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100
EXMU-1	1/2"	5	25	24
EXMU-2	3/4"	5	25	35
EXMU-3	1"	5	25	45
• EXMU-4	11/4"	5	25	64
• EXMU-5	1½"	5	25	84
• EXMU-6	2"	2	10	155
• EXMU-7	2½"	2	10	300
• EXMU-8	3"	1	5	340
• EXMU-9	3½"	1	5	400
• EXMU-10	4"		1	410

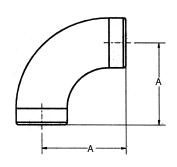
[•] Made to order items. Consult factory for lead time and minimum quantities.

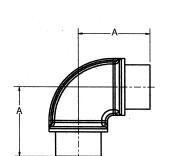
Elbows Explosionproof, Dust-Ignitionproof



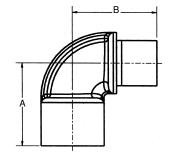












CI.I, Div. 1 & 2, Groups C, D CI.II, Div. 1, Groups E, F, G CI.III, Div. 1 & 2 NEMA 3, 4, 7 CD, 9 EFG

Explosionproof Dust-Ignitionproof Raintight Wet Locations

45° Female Elbow

Cat. No.	Hub Size	A
EL1-TB	1/2	1.268
EL2-TB	3/4	1.402
EL3-TB	1	1.643
EL4-TB	11/4	1.846
EL5-TB	11/2	2.14
EL6-TB	2	2.326
EL7-TB	21/2	2.848
EL8-TB	3	3.149
EL9-TB	31/2	3.533
EL10-TB	4	3.975

90° Female Elbow

Cat. No.	Hub Size	A
EL19-TB	1½	1.75
EL29-TB	3/4	1.965
EL39-TB	1	2.15
EL49-TB	11⁄4	2.425
EL59-TB	1½	4.047
EL69-TB	2	5.02
EL79-TB	2½	6.375

90° Male Elbow

Cat. No.	Hub Size	A
EL195-TB	1/2	1.422
EL295-TB	3/4	1.625
EL395-TB	1	1.875

90° Male & Female Elbow

Cat. No.	Hub Size	A	В
EL196-TB	1/2	1.695	1.675
EL296-TB	3/4	1.933	1.813
EL396-TB	1	2.085	2.17
EL496-TB	11/4	2.46	2.281



Flexible Couplings Explosionproof, Dust-Ignitionproof

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

NEMA7 ABCD 9EFG 12



EXFC Series

Male to Ma	le			
Cat. No.	Conduit Size	Flex Length	Std. Pkg.	Wt. Ibs per 100
• EXFC-104	1/2"	4"	1	175
EXFC-106	1/2"	6"	1	200
EXFC-108	1/2"	8"	1	225
EXFC-110	1/2"	10"	1	238
EXFC-112	1/2"	12"	1	250
EXFC-115	1/2"	15"	1	262
EXFC-118	1/2"	18"	1	300
• EXFC-121	1/2"	21"	1	312
EXFC-124	1/2"	24"	1	325
EXFC-127	1/2"	27"	1	337
• EXFC-130	1/2"	30"	1	350
• EXFC-133	1/2"	33"	1	375
EXFC-136	1/2"	36"	1	400
• EXFC-204	3/4"	4"	1	200
EXFC-206	3/4"	6"	1	225
EXFC-208	3/4"	8"	1	237
EXFC-210	3/4"	10"	1	250
EXFC-212	3/4"	12"	1	262
EXFC-215	3/4"	15"	1	300
EXFC-218	3/4"	18"	1	312
• EXFC-221	3/4"	21"	1	325
EXFC-224	3/4"	24"	1	337
• EXFC-227	3/4"	27"	1	350
• EXFC-230	3/4"	30"	1	375
• EXFC-233	3/4"	33"	1	400
EXFC-236	3/4"	36"	1	450
EXFC-306	1"	6"	1	225
EXFC-308	1"	8"	1	250
EXFC-310	1"	10"	1	262
• EXFC-312	1"	12"	1	275
• EXFC-315	1"	15"	1	300
• EXFC-318	1"	18"	1	325
EXFC-321	1"	21"	1	350
• EXFC-324	1"	24"	1	375
• EXFC-327	1"	27"	1	412
• EXFC-330	1"	30"	1	450
• EXFC-333 EXFC-336	1" 1"	33" 36"	1	487 525
• EXFC-412	11/4"	12"	1	650
• EXFC-415	11/4"	15"	1	700
• EXFC-418	11/4"	18"	1	750
• EXFC-421	11/4"	21"	1	825
• EXFC-424	11/4"	24"	1	875
• EXFC-427	11/4"	27"	1	950
• EXFC-430	1¼" 1¼"	30" 33"	1	1025
• EXFC-433 • EXFC-436	11/4"	36"	1	1075 1125
		12"	1	
• EXFC-512 • EXFC-515	1½" 1½"	15"	1	825 900
• EXFC-515	1½"	18"	1	1000
• EXFC-518 • EXFC-521	1½"	21"	1	1100
• EXFC-521 • EXFC-524	1½"	24"	1	1200
• EXFC-524 • EXFC-527	1½"	24 27"	1	1300
• EXFC-527 • EXFC-530	1½"	30"	1	1400
• EXFC-530	1½"	33"	1	1500
• EXFC-536	1½"	36"	1	1600
- FVLC-220	1/2	JU	I	1000

Made to order items. Consult factory for lead time and minimum quantities.
Unions are not supplied with flexible couplings as shown in photo.



Sealing Fittings Explosionproof, Dust-Ignitionproof



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
- Seals are approved to be used with Crouse-Hinds® Sealing Compound and Fiber.

Crouse-Hinds® is a trademark of Cooper Industries, Inc.



Sealing Fittings Explosionproof, Dust-Ignitionproof

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

9EFG 12

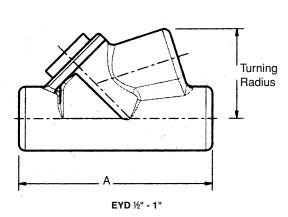
NEMA7

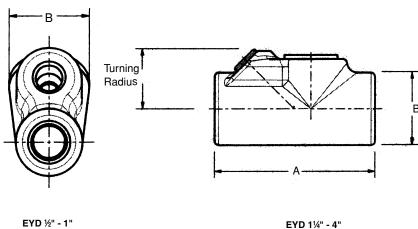






EYD Drain Seals Turning В Size A Radius No. EYD11-TB 1/2 3.81 1.50 1.75 EYD21-TB 3/4 4.08 1.75 1.98 EYD31-TB 1 4.85 2.19 2.19 EYD41-TB 11/4 5.00 2.25 1.80 EYD51-TB 11/2 5.44 2.44 2.00 EYD61-TB 2 6.25 3.00 2.32 EYD71-TB 21/2 7.50 3.50 2.69 EYD81-TB 8.50 4.25 3 3.15 EYD91-TB 31/2 9.19 4.75 3.38 EYD101-TB 9.75 5.25 3.64







Drains/Breathers for Hazardous Locations Cat. No. Dim. "D" Size ECD15 .975 ECD384 .407 3/8 ECD284 1/4 .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 allow 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.



Sealing Fittings Explosionproof, Dust-Ignitionproof

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-Ignitionproof





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

• 1/2" 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.

CHCHICO - X6 (8 oz. Chico X Fiber)

CHCHICO – A3 (1 lb. can Sealing Compound CHCHICO – A4 (1 lb. can/1 oz. Chico X Fiber)

NEC/CEC:

EYS1-3TB*

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

EYS4-5TB*

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

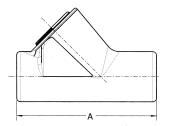
EYS11-31TB*

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

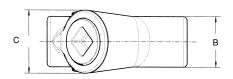
CI. IIÍ

EYS41-101TB*

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



EYS11-TB - EYS101-TB



EYS1-TB - EYS5-TB

EYS Sea	ling Fittin	igs			
Cat.	Hub	I	Dimensions (Inches)	Turning
No.	Size	Α	В	С	Radius
EYS1-TB*	1/2	3.31	1.25	1.50	1.66
EYS2-TB*	3/4	3.65	1.50	1.75	1.96
EYS3-TB*	1	4.25	1.75	2.19	2.40
EYS4-TB*	11/4	5.00	2.25	2.45	3.11
EYS5-TB*	1½	5.69	2.45	3.00	3.62
EYS11-TB	1/2	35%	11⁄4	-	13/32
EYS21-TB	3/4	321/32	1½	-	11/4
EYS31-TB	1	41/4	1¾	-	111/32
EYS41-TB	11/4	5	21/4	-	113/16
EYS51-TB	1½	5 ¾ ₆	2 7⁄16	-	2
EYS61-TB	2	61/4	3	-	25/16
EYS71-TB	2½	7½	3½	_	211/16
EYS81-TB	3	8½	41⁄4	-	35⁄32
EYS91-TB	3½	9¾6	43/4	-	3%
EYS101-TB	4	9¾	51/4	-	311/32

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



Aluminum Sealing Fittings Explosion-Proof, Dust-Ignition-Proof

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

Explosionproof **Dust Ignition-proof** Raintight Wet Locations

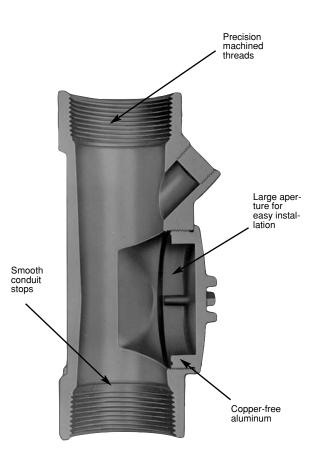












Application

- 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 which enters an enclosure containing splices; wherever conduit leaves a Class I, Division I area and enters a nonhazardous area.

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.
- 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 copperfree* 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 Red•Dot® Catalog No.

*Less than .004 copper content.

Aluminum Sealing Fittings Explosion-Proof, Dust-Ignition-Proof

Red-Dot* CI.I, Div. 1 & 2, Groups C, D Explosion proof CI.II, Div. 1, Groups E, F, G CI.III, Div. 1 & 2 NEMA 3, 4, 7 CD, 9 EFG

Dust Ignition-proof Raintight Wet Locations

Vertical and Horizontal



Vertical								
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. Ibs. per 100				
† EYVF-1	1/2"	5	25	50				
† EYVF-2	3/4"	5	25	54				
† EYVF-3	1"	5	25	100				
EYVF-11	1/2"	10	50	35				
EYVF-22	3/4"	10	50	40				
EYVF-33	1"	4	20	60				





EVHF-1 through -3

EVHF-4 through -10

Vertical/Horizontal							
Cat. No.	Hub Size	Unit Qty.	Std. Pkg.	Wt. lbs. per 100			
EVHF-1	1/2"	10	50	41			
EVHF-2	3/4"	5	25	50			
EVHF-3	1"	5	25	60			
EVHF-4	11⁄4"	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.

Vertical Installation for EYVF or EVHF Fittings

Aluminum Sealing Fittings Explosion-Proof, Dust-Ignition-Proof



Red•Dot* Cl.I, Div. 1 & 2, Groups C, D Explosionproof CI.II, Div. 1, Groups E, F, G CI.III, Div. 1 & 2 NEMA 3. 4. 7 CD. 9 EFG

Dust Ignition-proof Raintight Wet Locations





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

Sealing Cement

Packing Fiber

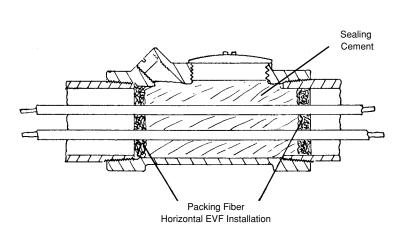
- (1) Use a clean mixing vessel for each batch.
- (2) Thoroughly mix powder before adding water.
- (3) Do not use if temperature is below 40°F.
- (4) Mix 1 part water to 2 parts cement.
- (5) Allow cement to set for 72 hours before use.

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





Sealing Fittings Explosion-Proof, Dust-Ignition-Proof

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 Explosionproof
Dust Ignition-proof
Raintight
Wet Locations

Sealing Cement and Fiber for Red-Dot® Sealing Fittings



EXSC



EXPF

Sealing Cement • Can be used on Red•Dot® EYV, EVH series fittings only.						
Cat. No.	Quantity	Volume Cubic Inches	Std. Pkg.	Wt. Ibs 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.						
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

Cat. No.	Hub Size	Cement Quantity	Fiber Quantity
EYVF-11	1/2"	2 oz.	1⁄32 OZ.
EYVF-22	3⁄4"	3 oz.	1⁄16 OZ.
EYVF-33	1"	4 oz.	1⁄8 OZ.
EVHF-1	1/2"	2 oz.	1/32 OZ.
EVHF-2	3/4"	2 oz.	1/32 OZ.
EVHF-3	1"	4 oz.	1⁄4 OZ.
EVHF-4	11⁄4"	4 oz.	1⁄4 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.



Kopr-Shield™ Compound



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."

The Copper Colloidal Surface Treatment That Protects, Lubricates and Enhances Conductivity Between All Electrical Connections

Good connections are one of the most important aspects of electrical work. Mechanics know how much down-time is caused when fluids or oils leak into the raceway system or 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" build-up. 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 –50F to 250F (other compounds either turn solid or run like water at these extremes). Even at 1800F, 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!

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.

Kopr-Shield	М		
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 product 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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- NEC Article 334...Metal Clad Cable (Type MC)
- U.L. 4, ANSI C33.9...Safety
 Standards for Type MC Metal Clad
 Cable
- 3. U.L. 514B, Safety Standards for Outlet Boxes & Fittings
- W-F-406...Federal Specification.
 Fittings for Cable, Power
 Electrical & Conduit Metal, Flexible
- NEMA FM-1...Standards
 Publication. Fittings and Supports for Conduit and Cable Assemblies
- In the 1978 National Electric Code, Aluminum Sheathed Cable is classified as type MC metal clad cable (NEC Article 334); however in 1975 National Electric Code Aluminum Sheathed Cable was classified as type ALS cable and covered under a separate article (NEC Article 331)



Metal Clad Cable Termination Fittings

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 armour is used as a grounding conductor. Except for dry locations free from corrosive atmosphere, the nonmetallic jacket is not permitted to be stripped back to a point where armour 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:

- CEC Section 12...Wiring Methods CEC Section 4...Conductors
- 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 excerpts and other material herein, whether relating to the National Electrical Code, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, is not intended to provide all relevant information required for use and installation. Reference to original or primary source material and data is mandatory before any application or use is made of the product.



Metal Clad Cable Termination Fittings



The 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, metal clad, jacketed or unjacketed and unarmored 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.

- 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.

Cord & Cable Type

• JMC. MC

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
 - -Ordinary Location
 - -Class I, Division 1, Groups A,B,C,D
 - -Class II, Division 1, Groups E,F,G
 - -NEMA 4, 4X, 6P
- * 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 approved MC type cable (or equal) when installed in accordance with NEC/CEC requirements. Not applicable to all STEX series.



Metal Clad Cable Termination Fittings



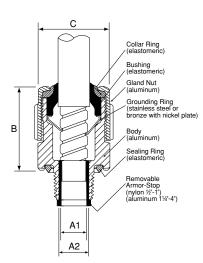




STE Series Ordinary



STEX Series Hazardous Locations



Star® Teck Extreme™ Jacketed Metal-Clad Cable Fittings											
Cat.	Hub Size	Strip Length	Gland Torque	Range Ov	er Jacket	Range O	ver Armor	A1: Throat Dia. Min.	A2: Throat Dia. Min.	B* Overall	C Max.
No.	a.p.†		(lbln.)	Min.	Max.	Min.	Max.	w/End Stop	wo/End Stop	Overan	Alum.
Ordinary											
ST050-462*	1/2	11/4	300	.525	.650	.415	.570	N/A*	.395	2.020	1.224
STE050*	1/2	11/4	300	.600	.985	.520	.895	.505	.612	2.650	1.630
STE075*	3/4	11/4	600	.860	1.205	.780	1.125	.655	.816	2.900	2.080
STE100*	1	11/4	700	.950	1.375	.870	1.295	.785	1.044	3.020	2.300
STE125*	11/4	11/4	1000	1.150	1.625	.990	1.465	.970	1.250	4.010	2.820
STE150*	11/2	13/4	1200	1.440	1.965	1.280	1.805	1.260	1.562	4.290	3.250
STE200*	2	13/4	1600	1.825	2.375	1.665	2.215	1.645	1.995	4.120	3.600
STE250	21/2	21/2	1600	2.265	2.840	2.105	2.680	2.075	2.424	5.320	4.750
STE300	3	21/2	1600	2.670	3.270	2.545	3.145	2.531	2.890	5.400	5.400
STE350	31/2	21/2	1600	3.220	3.870	3.090	3.640	3.065	3.460	5.360	5.900
STE400	4	21/2	1600	3.665	4.340	3.550	4.225	3.525	3.941	5.415	6.400
Hazardous	Location	ons									
STX050-462	2* ½	11/4	300	.525	.650	.415	.570	N/A*	.395	2.500	1.630
STX050-464	4* ½	11/4	300	.600	.760	.490	.680	N/A*	.485	2.530	1.630
STEX075*	3/4	11/4	600	.600	.985	.520	.895	.504	.678	3.400	1.820
STEX100*	1	11/4	700	.860	1.205	.780	1.125	.650	.833	3.580	2.300
STEX125*	11/4	11/4	1000	.950	1.375	.870	1.295	.834	1.065	3.920	2.510
STEX150*	11/2	13/4	1200	1.150	1.625	.990	1.465	.958	1.273	5.020	3.260
STEX200*	2	13/4	1600	1.440	1.965	1.280	1.805	1.250	1.560	5.120	3.620
STEX250†	21/2	21/2	1600	1.825	2.375	1.665	2.215	1.640	1.995	5.170	4.580
STEX300†	3	21/2	1600	2.265	2.840	2.105	2.680	2.075	2.461	6.610	5.100
STEX350†	31/2	21/2	1600	2.670	3.270	2.545	3.145	2.531	2.864	7.380	5.790

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

3.220

3.810

3.965

3.870

4.030

4.185

3.090

3.680

3.835

3.640

3.870

4.025

3.055

3.461

7.650

6.190

1600

1600

1600

Desired Material	Suffix	Example
Aluminum fitting with ground lock nut	GR	STE-050GR
Steel with zinc plate	S	STE-050S
Brass with nickle plate	BN	STE-050BN
Aluminum with-pvc coating	PVC	STE-050PVC
Steel with pvc coating	S-PVC	STE-050S-PVC

UL Listed #84H3

STEX400†

STX400-484†

STX400-485†

- * These products are UL Listed Watertight NEMA Type 6P
- * The 1/2 fittings do not have a removable armor stop.

21/2

† CSA approved for hazardous location.

Sealing Compounds – Used for Hazardous Locations				
Cat. No.	Description	Volume		
SC4-KIT	Liquid type sealing compound for use in control cable applications	2.8 fl. oz.		
SC65	Putty Type Sealing Compound	60 grams		



Metal Clad Cable Termination Fittings







Dependable Service Stainless steel retaining ring. Withstands corrosive environments. Nonmagnetic.

Watertight scr Tapered bushing. Cone shaped to provide a secure, with eliminating cupping or water in vertical installa-

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.

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 aarmored, metal clad, jacketed or unjacketed and unarmored 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 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. The body and gland nut on hub sizes ½" to 1" are made of steel and 1¼" to 4" are made of malleable iron.

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



Metal Clad Cable Termination Fittings





3 620

4.020

4.020

4.750

4.750

5.050

5.480

5.480

5.980

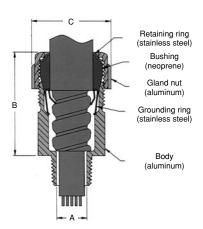
5.980

6.435

6.435

6.435





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

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).

Cat.	Hub Size		Range Over Jacket (in.)		Dimensions (in.)		
No.	NPT	min.	max.	A	В*	C	
ST050-462	1/2	0.525	0.650	0.395	2.020	1.224	
ST050-464	1/2	0.600	0.760	0.485	2.020	1.363	
ST050-465	1/2	0.725	0.885	0.612	2.133	1.633	
ST050-466	1/2	0.825	0.985	0.612	2.133	1.633	
ST075-467	3/4	0.880	1.065	0.819	2.450	2.080	
ST075-468	3/4	1.025	1.205	0.819	2.450	2.080	
ST100-469	1	1.187	1.375	1.039	2.601	2.230	
ST125-470	11/4	1.350	1.625	1.182	3.282	2.824	
ST125-550	11/4	1.500	1.625	1.370	3.282	2.824	
ST125-471	11/4	1.600	1.875	1.370	3.282	2.824	
ST150-472	1½	1.700	1.965	1.557	3.620	3.260	
ST150-473	1½	1.900	2.187	1.600	3.620	3.260	
ST200-551	2	1.900	2.187	1.715	3.640	3.620	

2 375

2.565

2.750

2.640

2.840

3.060

3.270

3.480

3.690

3.870

4.030

4.185

4.340

1.995

2.057

2.057

2.230

2.430

2.630

2.860

3.032

3.260

3.430

3.590

3.745

3.900

3.640

3.640

3.640

4.700

4.700

4.700

4.790

4.790

4.790

4.790

4.840

4.840

4.840

Star® Teck Jacketed Metal-Clad Cable Fittings

2 100

2.300

2.500

2.380

2.580

2.790

3.000

3.210

3.420

3.610

3.810

3.965

4.120

U.L. File No. E 38947 CSA File No. LR 23086

ST200-474

ST200-475

ST200-476

ST250-477

ST250-478

ST300-479

ST300-480

ST300-481

ST350-482

ST350-483

ST400-484

ST400-485

ST400-486

Suggested specifications for metal-clad cable fitting.

2

2

2

21/2

21/2

3

3

3

31/2

31/2

4

4

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

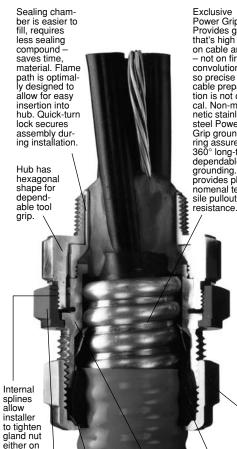
- a. An elastomeric beveled bushing.
- b. A funnel entry, splined gland nut.
- c. A non-magnetic stainless steel grounding device with dual grounding action.
- d. A taper threaded hub.
- e. A hexagonal body and gland nut as manufactured by Thomas & Betts (aluminum series ST050-464).
- 3. Where cable 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.



^{*} Approximate dimension before installation.

Metal Clad Cable Termination Fittings



Power Grip. Provides grip that's high up on cable armor - not on first convolution so precise cable preparation is not critical. Non-mag-netic stainless steel Power Grip grounding ring assures 360° long-term dependable grounding. It provides phenomenal ten-sile pullout

Star® Teck XP Jacketed Metal-Clad Cable Fittings





Application

- Provide means for passing armored, metal clad, jacketed or unjacketed and unarmored 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

- Sealing chamber is easier to fill, requires less sealing compound saves time, material. Flame path is optimally designed to allow for easy insertion into hub. Quickturn 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. The body and gland nut on hub sizes 1/2" to 1" are made of aluminum and 11/4" to 4" are made of aluminum.

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.

Low profile gland nut fits tightest spaces Has grooves for hammer/screwdriver installation and flats for wrench-gripping. Durable and reusable with funnel entry for easy cable

Tapered bushing. Cone-shaped to provide secure, tight fit while eliminating cup-ping of water in vertical installations.

Copper-free

construc-tion. All-alu-

minum body

and gland

nut resist corrosion,

oxidation.

insertion.

Easy installation saves time, money!



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



or off

enclosure.

Union features twist-on action

for easy connec-tion and discon-

Stainless

steel retain-

ing ring. Withstands

ments. Non-

corrosive

magnetic.

environ-

nection; red

color assures high visibility, easy recogni-

tion. Union also serves as a "puller" during

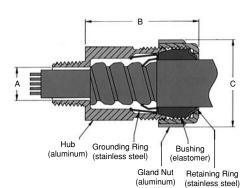
disassembly.

Metal Clad Cable Termination Fittings









Connectors When Used With Putty Type or Liquid Type Compound					
Class I	Div. 2	Groups A, B, C, D			
Class II Class III	Div. 2	Groups F, G			
Enclosure	Type 4				
Connectors or Liquid T	when Use	ed With Putty Type ound			
Class I Class II Class III Enclosure	Div. 2 Div. 2	Groups B, C, D Groups F, G			
	Class II Class III Class III Enclosure Connectors or Liquid T	Class I Div. 2 Class II Div. 2 Class III Div. 2 Class III Enclosure Type 4 Connectors When Us or Liquid Type Compo			

CSA Certified For:

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

Star® Teck XF	Jacketed Metal	Clad Cable Fittings
---------------	-----------------------	---------------------

	Hub		e Over	D	imensions (in	.)	Sealing Co Requ SC65**	
Cat. No.	Size N.P.T.	min.	et (in.) max.	A min.	В	C	Putty (grams)	Liquid (cc)
STX050-462	1/2	0.525	0.650	0.395	2.50	1.63	7	4
STX050-464	1/2	0.600	0.760	0.485	2.50	1.63	7	4
STX075-465	3⁄4	0.725	0.885	0.612	2.62	1.82	14	7
STX075-466	3/4	0.825	0.985	0.720	2.62	1.82	14	7
STX100-467	1	0.880	1.065	0.755	2.83	2.30	30	16
STX100-468	1	1.025	1.205	0.900	2.83	2.30	30	16
STX125-469	11⁄4	1.187	1.375	1.062	3.05	2.51	45	22
STX150-470	1½	1.357	1.625	1.182	3.76	3.26	80	43
STX150-550	1½	1.500	1.625	1.370	3.76	3.26	80	43
STX150-471	1½	1.600	1.875	1.470	3.76	3.26	80	43
STX200-472	2	1.700	1.965	1.557	4.05	3.62	125	66
STX200-473	2	1.900	2.187	1.757	4.05	3.62	125	66
STX200-474	2	2.100	2.375	1.995	4.15	4.02	150	80
STX250-475	21/2	2.300	2.565	2.185	4.31	4.58	341	164
STX250-476	21/2	2.500	2.750	2.365	4.31	4.58	341	164
STX300-478	3	2.580	2.840	2.460	5.64	5.10	497	239
STX300-479	3	2.790	3.060	2.660	5.80	5.33	609	293
STX350-480	3½	3.000	3.270	2.864	6.32	5.79	965	464
STX350-481	3½	3.210	3.480	3.062	6.32	5.79	965	464
STX400-482	4	3.420	3.690	3.290	6.63	6.19	1323	636
STX400-483	4	3.610	3.870	3.460	6.63	6.19	1323	636
STX400-484	4	3.810	4.030	3.630	7.09	6.90	1645	791
STX400-485	4	3.965	4.185	3.775	7.09	6.90	1645	791

^{*} Approximate dimension before installation.

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 control cable applications	2.8 fl. oz.			
SC65	Putty Type Sealing Compound	60 grams			

U.L. File No. E-82038 CSA File No. LR 638



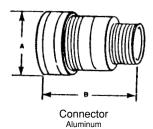
Approximate uniteristin before installation.
** 1 unit of SC4-Kit liquid type sealing compound contains 66 cc. and includes a dispensing syringe and fibre damming material.

U.L. File No. E-38947

Metal Clad Cable Termination Fittings











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.

Spin-On®	Series II	Connectors an	d 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	1/2	.380435	11⁄4	1%	NB050
2-050-010	1/2	.436500	11/4	1%	NB050
2-050-020	1/2	.501580	1¼	1%	NB050
2-050-030	1/2	.581650	11/4	1%	NB050
2-075-040	3/4	.651730	1%	21/8	NB075
2-075-050	3/4	.731820	1%	21/8	NB075
2-075-060	3⁄4	.821880	1%	21/8	NB075
2-100-070	1	.881-0.960	2	21/8	NB100
2-100-080	1	.961-1.030	2	21/8	NB100
2-100-090	1	1.031-1.100	2	21/8	NB100
2-100-100	1	1.101-1.180	2	21/8	NB100
2-125-110	11⁄4	1.181-1.240	21/4	21/2	NB125
2-125-120	11⁄4	1.241-1.310	21/4	21/2	NB125
2-125-130	11⁄4	1.311-1.390	21/4	21/2	NB125
2-150-140	1½	1.391-1.480	2%	25/8	NB150
2-150-150	1½	1.481-1.570	25%	25/8	NB150
2-150-160	1½	1.571-1.660	25/8	2%	NB150
2-200-170	2	1.661-1.750	3	2%	NB200
2-200-180	2	1.751-1.840	3	27/8	NB200
2-200-190	2	1.841-1.930	3	2%	NB200
2-200-200	2	1.931-2.030	3	2%	NB200
2-250-210	21/2	2.031-2.150	3%	3%	NB250
2-250-220	21/2	2.151-2.270	3%	3%	NB250
2-250-230	21/2	2.271-2.390	3%	3%	NB250
2-250-240	21/2	2.391-2.510	3%	3%	NB250
2-300-250	3	2.511-2.640	4½	3%	NB300
2-300-260	3	2.641-2.770	41/2	3%	NB300
2-300-270	3	2.771-2.900	41/2	3%	NB300
2-300-280	3	2.901-3.040	4½	3%	NB300
2-350-390	31/2	3.041-3.170	5	3%	NB350
2-350-300	31/2	3.171-3.310	5	3%	NB350
2-350-310	31/2	3.311-3.450	5	3%	NB350
2-350-320	31/2	3.451-3.590	5	3%	NB350
2-400-330	4	3.591-3.730	5%	3%	NB400
2-400-340	4	3.731-3.870	5%	3%	NB400
2-400-350	4	3.871-4.010	5%	3%	NB400

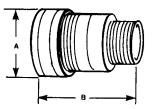
U.L. File No. E38947 CSA File No. LR 2884



Metal Clad Cable Termination Fittings







Compound filled connector kit.
Each SPIN-ON® X catalog number is a complete kit. Used to install a complete gas blocked connector in a hazardous location.

Red anodized gland identifies the hazardous location litting.

- Three-piece construction; Gland-Body-Insert with O'Ring.
- Overall length % less than conventional.
 Installation time 50% less than conventional.
- Full tapered hub threads gas tight thread engagement.
- Machined Aluminum Construction, good
- Hadring to the control of the control of the control of the compound of the compound of the control of the cont
- Factory-Packayen compound no other onsite materials.
 Sealing Compound consistency pre-mixed no job site variations.
 Neoprene boots available; additional corrocion proteotics.
- sion protection.
- For control cable applications order liquid compound separately.

Spin-On® 2	X Connectors fo	r Hazardous Lo	cations	
Cat. No.	Hub Size (in.)	Cable Range Over Armor (in.)	A Dia. (in.)	B (in.)
4-075-008	3⁄4"	.380435	1%	21/8
4-075-010	3/4"	.436500	1%	21/8
4-075-020	3/4"	.501580	1%	21/8
4-075-030	3/4"	.581650	1%	21/8
4-075-040	3⁄4"	.651730	1%	21/8
4-100-050	1"	.731-820	2	21/8
4-100-060	1"	.821-880	2	21/8
4-100-070	1"	.881-960	2	21/8
4-100-080	1"	.916-1.030	2	21/8
4-125-090	11/4"	1.031-1.100	21⁄4	21/2
4-125-100	11/4"	1.101-1.880	21⁄4	21/2
4-125-110	11/4"	1.181-1.240	21/4	21/2
1-125-120	11⁄4"	1.241-1.310	21/4	21/2
1-150-130	1½"	1.311-1.390	25/8	2%
1-150-140	1½"	1.181-1.240	2%	2%
1-150-150	11/4"	1.241-1.310	25/8	25%
1-200-160	2"	1.571-1.660	3	2¾
4-200-170	2"	1.661-1.750	3	2%
1-200-180	2"	1.751-1.840	3	2%
1-200-190	2"	1.841-1.930	3	2%
4-250-200	2½"	1.931-2.030	3%	3%
4-250-210	2½"	2.031-2.150	3%	3%
1-250-220	2½"	2.151-2.270	3%	3%
4-250-230	2½"	2.271-2.390	3%	3%
4-300-240	3"	2.391-2.510	4½	3%
4-300-250	3"	2.511-2.640	41/2	3%
4-300-260	3"	2.641-2.770	41/2	3%
4-300-270	3"	2.771-2.900	41/2	3%
4-350-280	3½"	2.901-3.040	5	3%
4-350-290	3½"	3.041-3.170	5	3%
4-350-300	3½"	3.171-3.310	5	3%
4-350-310	3½"	3.311-3.450	5	3%
4-400-320	4"	3.451-3.590	5%	3%
4-400-330	4"	3.591-3.730	5%	3%
4-400-340	4"	3.731-3.870	5%	3%
4-400-350				

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 U.L. Listed for: Class I, Div. 2, Groups A, B, C, & D in ¾", 1", 1½", 1½", 2", 2½" Hub sizes. Class I, Div. 2, Groups C & D in ¾", 1", 1½", 3½", and 4" Hub sizes. The entire line is U.L. 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.

U.L. 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 control cable applications	2.8 fl. oz.			
SC65	Putty Type Sealing Compound Same as Spin-On® X Blue Compound	60 grams			



Metal Clad Cable Termination 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

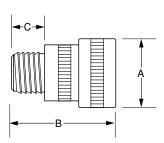
Range

.225" - 3.790"









Tray Ca	ble Connecto	ors		
Cat. No.	Hub Size	A ±.062	B ±.062	Cable Range Dia. (inches)
4-075TC	3/4"	1.72	2.10	.275600
4-100TC	1"	2.10	2.33	.575900
4-125TC	11/4"	2.35	2.70	.860-1.180
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 hazardoud locations: %" thru 2½" – Class I Div. 2, Groups A, B, C, D

Class II Div. 2, Groups F, G

thru 4" – Class I Div. 2, Groups C, D

Class II Div. 2, Groups F, G.

- 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



Electrical Metallic Tubing (EMT) Fittings

Electrical Metallic Tubing (EMT)

Ref. NEC Article 348

Electrical Metallic Tubing (EMT) is similar to rigid steel conduit but is much lighter, weighing approximately 40 percent as much as rigid steel conduit of the same nominal size. EMT can be used for both exposed or concealed work provided, where during installation or afterwards, it is not subjected to severe physical damage. Use of EMT is restricted to systems not exceeding 600 volts and to non-hazardous locations except (Class II Division 2 NEC Section 502-4 (b).

Galvanized Steel EMT installed in concrete on grade or above generally requires no supplementary corrosion protection. However, when installed in concrete below grade level and in contact with soil or cinders supplementary corrosion protection consisting of a protective coating of bitumastic or asphalt base paint or plastic is generally applied. According to NEC Section 348-1, EMT run in or under permanently moist cinder fill must be encased in at least two inches of cinder free concrete unless the conduit is at least 18 inches below the fill.

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

NEC Sections 384-4 and 300-6 require that in wet locations where walls are frequently washed or where there are surfaces of absorbent material the entire wiring system including boxes, fittings, conduits and cables must be supported such that there is at least ¼ inch air space between it and the supporting surface.

Connectors and couplings are required to be of concrete tight type when embedded in masonry or concrete or in dry locations and of the rain tight type when installed in wet locations (NEC Section 348-8).

According to NEC Section 373-6, where No. 4 or larger underground conductors enter or leave a conduit, an insulating bushing with a smooth well rounded insulating surface must be provided to protect conductors, unless the terminating fitting is equipped with an insulated throat, firmly secured in place providing equivalent protection. The insulating bushing or insulating material must have a temperature rating of not less than the insulation temperature rating of installed conductors.

NEC Section 300-10 requires that the raceways be metallically joined together into a continuous electric conductor and must be mechanically connected to all boxes, fittings and cabinets as to provide effective electrical continuity.

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

Portions of this section reprinted by permission from NFPA 70-1978, National Electrical Code®, Copyright® 1977, National Fire Protection Association, Boston, MA. For further details and complete information please refer to the following:

- NEC Article 348...Electrical Metallic Tubing
- ANSI C80.3...Electrical Metallic Tubing, Zinc Coated, Specifications for
- ANSI C33.98, UL797...Standards for Safety. Electrical Metallic Tubing.
- Fittings for Rigid Metal Conduit and Electrical Metallic Tubing, Specifications for
- U.L. 514B, Standards for Safety, Outlet Boxes and Fittings
- WW-C-563...Conduit, Metal, Rigid, and Bend and Elbow, Electrical Conduit, Thin-wall Type (EMT)
- 7. W-F-408...Fittings for Conduit, Metal, Rigid, (Thickwall & Thinwall (EMT) Type)
- 8. NEMA FB-1...Standards
 Publication. Fittings and Supports
 for Conduit & Cable Assemblies.
- 9. CEC Section 12-1500...Electrical Metallic Tubing
- CSA C22.2 No. 83...Safety
 Standards for Electrical Metallic
 Tubing
- CSA C22.2 No. 18...Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

Please Note

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



Electrical Metallic Tubing (EMT) Fittings



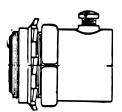
Series 5123 Insulated EMT Connector (Rain tight) (Compression Type)



Series 5120 EMT Coupling (Rain tight) (Compression Type)



Series 530 Combination Coupling (Rain tight) Rigid/IMC to EMT



Series TC121-E or TC721-E Insulated EMT Connector (Concrete tight) (Set Screw Type)



Series 1350 Pipe Spacers

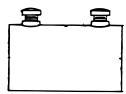
Suggested Specifications for Electrical Metallic Tubing (EMT) Fittings

- 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/U.L. 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:
- 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 rain tight type for installations exposed to weather or wet locations such as Thomas & Betts series 5123, 5120 and 530.
- (3) Shall be of concrete tight type for installations in poured concrete such as Thomas & Betts series TC121, TC721, or TK121.

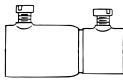
Rain tight type fittings may be substituted for concrete tight application.

 Where electrical metallic tubing and associated fittings are used as part of equipment grounding system:

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



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



Series 106 Bonding Locknut



Series 4176 Pipe Straps



Electrical Metallic Tubing (EMT) Fittings



5123 Series*



5120 Series

* 4230 Series – 90° Connectors

Fittings for Electrical Metallic Tubing (EMT) Compression Type, Rain tight

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 assured.
- Nylon insulator firmly secured in place – protects conductors, reduces wire pulling effort and prevents thread damage in handling.
- Locknuts are designed with extended reach to lock fitting on to a thin box or an enclosure.
- Locknuts tighten without deformation; will not vibrate loose.

Standard Material

All Steel except Insulator.

Insulator.....Thermoplastic, U.L.

Rated 105°C

Standard Finish

All Steel PartsElectro 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:

U.L. (U.L. File No. E-16592) CSA (LR-4484, LR-8994)

Conforms to: U.L. 514B

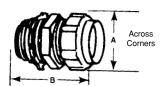
CSA C22.2 No. 18 NFPA 70-1999 (ANSI) NEMA FB1 Federal Specification W-F-408 Federal Standard H-28 (Threads)



Electrical Metallic Tubing (EMT) Fittings







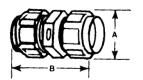
EMT Co	nnectors – Nylon Ins	ulated	
Cat.		Dimensi	ons (in.)
No.	Size	A	В
5123	1/2"	13⁄64	121/32
5223	3/4"	121/64	127/32
5323	1"	111/16	1%
5423	11/4"	21⁄16	211/32
5523	1½"	25⁄16	223/32
5623	2"	2 ² 5⁄32	213/16

U.L. Listed and CSA Certified rain tight.

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







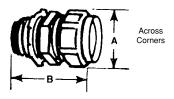
EMT Cou	plings		
Cat.		Dimensio	ons (in.)
No.	Size	A	В
5120	1/2"	11/16	127/32
5220	3/4"	15⁄16	21/8
5320	1"	111/16	21/8
5420	11⁄4"	21/16	229/32
5520	1½"	25⁄16	31/16
5620	2"	2¾	31/32

U.L. Listed and CSA Certified rain tight.

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







Cat.		Dimens	ions (in.)
No.	Size	A	В
121	1/2"	11/16	1%
5221	3/4"	15⁄16	121/32
321	1"	111/16	1¾
5421	11⁄4"	21⁄16	111/32
5521	1½"	25⁄16	21/16
5621	2"	2¾	2¾

U.L. Listed and CSA Certified rain tight.

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

U.L. File No. E 9043

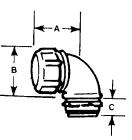
CSA File No. 8994



Electrical Metallic Tubing (EMT) Fittings







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

Short Elb	ows – Insulated*					
Cat.			Dimension (in.)			
No.	Size	A	В	С		
4240	1/2"	1 7/16	1%2	7/16		
4241-TB	3⁄4"	111/16	119/32	1/2		
4242	1"	1%	127/32	5/8		
4243	11⁄4"	23/4	215/32	11/16		
4244	1½"	31/16	2¾	11/16		
4245	2"	3%	35∕16	11/16		

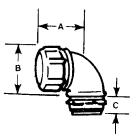
U.L. Listed and CSA Certified rain tight.

U.L. File No. E 09043

CSA File No. 2884







Ideal for cramped locations or tight corners where large radius conduit elbows will not fit or would appear unworkmanlike. Shoulders on body of ½" size are hex-shaped to provide positive holding for standard installation tools.

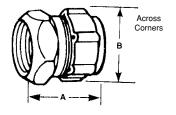
Short El	bows Malleable Iron	*		
Cat.			Dimension (in.)	
No.	Size	A	В	C
4230	1/2"	1 7/16	1%2	7/16
4231	3/4"	111/16	119/32	1/2
4232	1"	1%	127/32	5/8
4233	11⁄4"	2¾	215/32	11/16
4234	1½"	31/16	2¾	11/16
4235	2"	3%	35/16	11/16

U.L. Listed and CSA Certified rain tight. U.L. File No. E 09043

CSA File No. 2884







For connecting EMT to threaded rigid and inter-mediate metal conduit.

Comb	pination	Coupl	ling –	Steel*

Cat.		Dimensi	ons (in.)	
Cat. No.	Size	A	В	
530-TB	1/2"	1%	11/16	
531	3/4"	1½	111/32	
532	1"	119/32	121/32	

U.L. Listed and CSA Certified rain tight.

U.L. File No. E 09043

CSA File No. 2884

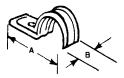
* All items shown on this page are suitable for use in hazardous locations where general purpose equipment is specifically permitted by the NEC; Class I, Div. 2; Class II, Div. 1 & 2; Class III, Div. 1 & 2, 502-4(a)(b); 503-3(a)(b).

Electrical Metallic Tubing (EMT) Fittings





Oval Hole for Screw Size (C)



Elongated bolt hole makes alignment easy, even when holes in mounting surface are out of alignment. Snap on features hold strap in place.

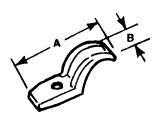
Pipe Stra	aps – Steel			
Cat.			Dimensions (in.)	ı
No.	Size	A	В	C (Bolt Hole)
4159	1/2"	127/32	3/4	1/4
4160	3/4"	21/32	3/4	1/4
4161	1"	211/32	3/4	1/4
4162	11⁄4"	2%	3/4	1/4
4163	1½"	311/16	11/4	11/32
4164	2"	41⁄16	11/8	13/32

Not U.L. Listed CSA File No. 2884 and 4484





Oval Hole for Screw Size (C)

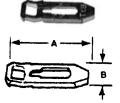


Designed to fit each size of conduit snugly. High reinforcing ribs on each side increase strength, reduce weight. Hot dipped galvanized finish.

Pipe Stra	ps – Malleable Iror				
Cat.			Dimensions (in.)		
No.	Size	A	В	C (Bolt Hole)	
4176	1/2"	25⁄32	21/32	1/4	
4177	3/4"	2%	11/16	1/4	
4178	1"	3	3/4	1/4	
4179	11⁄4"	3¾	13/16	5/16	
4180	1½"	4¾6	15/16	3/8	
4181	2"	5¾6	11/8	7/16	
1282	2½"	515/16	11/2	1/2	
1283	3	6 ¹¹ / ₁₆	1%	1/2	
1284	3½	719/32	1¾	5/8	
1285	4"	85/16	1%	5/8	

Not U.L. Listed. CSA File No. 2884 and 4484





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

Pipe Space	cers		
Cat.		Dimensio	ons (in.)
No.	Size	A	В
1350	1/2", 3/4", 1"	3"	7∕8
1351	11⁄4"-11⁄2"-2"	5"	13/16"
1352	2½"-3"	9%6"	1¾"
1353	3½"-4"	7%6"	2"
1354	4½"-5"-6"	10%6"	29/16"

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



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.

The Revolver™ Grounding Fitting Is The Latest Labor-Saving Innovation From Thomas & Betts.

The Revolver liquidtight grounding fitting is our latest break-through in convenience to save time and money on the job. The grounding lug of the Revolver can be rotated in a full circle, for convenient positioning that doesn't change when you tighten it. 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.

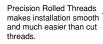
Sure-Tight Gland Cone deflects water away from connector and prevents "pooling" of moisture.





Self-Cleaning Threads inside gland nut keep dirt and grime out of fitting.

Safe Edge Ground Cone provides superior boding, stronger pullout, easy threading, and protects conductors.







Double Plating for superior corrosion protection; Zinc plating with clear Chromate finish.

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



Liquidtight Flexible Metal Conduit Fittings



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 which 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, non-metallic Bullet series, wire mesh grips, and more.



Liquidtight Fittings for Special Applications

The Revolver™ Externally Grounded Fitting

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 a major breakthrough in convenience that saves time and money on the job while delivering a quality connection.

Chase-Style Fittings

Where space is tight, our Chase fittings allow 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 assures 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' XTRAFLEX System has our outstanding Bullet fittings and conduits for liquidand 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.
- Have a tapered thread hub and sealing o-ring for a tight seal to the box or other enclosure.

- Are constructed of non-burning, nondripping thermoplastic for high strength chemical resistance.
- Feature a smooth insulated body for maximum dielectric strength.
- Have a patented, serrated 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 XTRAFLEX System.



Liquidtight Flexible Metal Conduit Fittings



5331 Series* 5231 AL Series



5361 Series

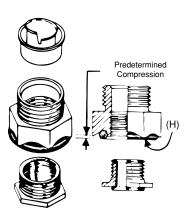


5271 Series

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







5361 Series Chase® Style

Liquidtight Flexible Metal Conduit Connectors

Application

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

Features

- Ability to install quickly with low torque effort.
- Ground cone design offers following advantages:
- 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 has following exclusive features:
- 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 N.E.C. Section 351-9 (up to 1¼" trade size on).
- ½" & 1½" sizes Laboratory tested to carry ground fault current of up to 1000 amps RMS with duration of fault current 3 cycles.

- Conforms with JIC requirements.
- Available with imperial, 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	%" thru 6"* conduit
5341 Series	%" thru 4" conduit
5351 Series	3/4" thru 4" conduit
5361 Series	3/4" thru 4" conduit
5271 Series	%" thru 1¼" conduit
5231 AL Series	3/4" thru 4" conduit
5332SST Series	1/2" & 3/4" conduit
5332B Series	1/2" & 3/4" conduit
All hubs provided w	ith taper pipe
threads (NPT)	

Listed/Certified by:

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

Conforms to:

U.L. 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)

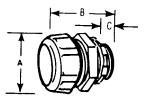


Liquidtight Flexible Metal Conduit Fittings









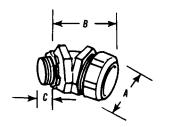
Steel malleable iron, or aluminum tapered hub threads. With safe-edge ground thru 4" cone and double bevel seating ring (through 2").

Straight Connectors*

	Cat. No.							
Insulated		Non-Insulated	Stainless		Conduit	Di	mensions (in.)
Steel	Aluminum	Steel	Steel	Brass	Size	A	В	C
5229‡	_	_	-	-	1/4	27/32	1%	15/32
5330‡	-	-	-	-	5/16	63/64	1%	15/32
5331 ^{†**}	5231AL	5231 [†]	-	-	3/8	15/32	11/2	9/16
5332 [†]	5232AL	5232 [†]	5332SST	5332B	1/2	1%	1%	9/16
5333 [†]	5233AL	5233 [†]	5333SST	5333B	3/4	121/32	1%	9/16
5334 [†]	5234AL	5234 [†]	-	-	1	1%	21/16	3/4
5335 [†]	5235AL	5235 [†]	-	-	11/4	23/32	21/2	13/16
5336	5236AL	5236	-	-	1½	223/32	211/16	13/16
5337	5237AL	5237	-	-	2	31/4	31/16	7/8
5338	5238AL	5238	_	-	21/2	3¾	41/8	1
5339	5239AL	5239	-	-	3	41/2	41/4	1
5340	5240AL	5240	-	-	4	5½	41/2	11/8
5385‡	-	5285	-	-	5	8¾	7	1%
5386‡	-	-	-	-	6	8¾	81/2	2







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

45° Angle Connectors*

Cat. No.		Conduit		Dimensions (in.)
Insulated	Non-Insulated	Size	A	В	C
5341***	5241 [†]	3/8	15⁄32	1%	9/16
5342 [†]	5242 [†]	1/2	1%	1%	9/16
5343 [†]	5243 [†]	3/4	121/32	21/8	9/16
5344 [†]	5244 [†]	1	1%	21/4	3/4
5345 [†]	5245 [†]	11/4	23/2	2¾	13/16
5346	5246	1½	223/32	3%	13/16
5347	5247	2	31/4	3%	7∕8
5348	5248	21/2	3¾	41⁄4	1
5349	5249	3	41/2	41⁄4	1
5350	5250	4	51/2	45%	11/8

^{*} 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).

** %" Conduit Fitting has ½" hub.

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

Note: U.L. Listed liquidtight; and CSA Certified watertight. Available with DURA-PLATE® Finish.

U.L. File No. E-23018

CSA File No. 2884

For Wiremesh Grips refer to pages A119, A154.



^{*} Not U.L. Listed.

Liquidtight Flexible Metal Conduit Fittings







Standard Liquid Tight – Female Hub Adapter

Cat. No.	Conduit	Dimensio	Dimensions (in.)		
	Size	A	В		
5271 [†]	3/8	15⁄32	1%6		
5272 [†]	1/2	1%	111/16		
5273 [†]	3/4	121/32	13/4		
5274 [†]	1	1%	21/8		
5275 [†]	1¼	23/2	21/2		

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









90° Angle Connectors

Cat. No.		Hub	Conduit	Dimensions (in.)			
Insulated	Non-Insulated	Aluminum	Size	Size	Α	В	C
5351	5251	5251AL	1/2"	3/8"	15⁄32	1%	9/16
5352	5252	5252AL	1/2"	1/2"	1%	1%	9/16
5353	5253	5253AL	3/4"	3/4"	121/32	1¾	9/16
5354	5254	5254AL	1"	1"	1%	23/16	3/4
5355	5255	5255AL	11/4"	11⁄4"	23/32	2¾	13/16
5356	5256	5256AL	11/2"	1½"	223/32	215/16	13/16
5357	5257	5257AL	2"	2"	31/4	3 7/16	7/8
5358	5258	_	21/2"	2½"	3¾	8%	1
5359	5259	-	3"	3"	41/2	101/4	1
5360	5260	_	4"	4"	5½	12%	11/8

^{*} 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).

** %* Conduit Fitting has ½* hub.

Note: U.L. Listed liquidtight; and CSA Certified watertight.

Available with DURA-PLATE® Finish.

U.L. File No. E-23018

CSA File No. 2884

For Wiremesh Grips refer to pages A119, A154.







Prevents severe conduit bends and pullout.

Wiremesh Grips for Liquidtight Fittings

Cat.	Conduit	Conduit Liquidtight Connecto		ctors	90°		
No.	Size	Straight	45°	90°	Chase	Chase	Adapter
WMG-LT1	3/8"	5331	5341	5351	5361	5371	5271
WMG-LT2	1/2"	5332	5342	5352	5362	5372	5272
WMG-LT3	3/4"	5333	5343	5353	5363	5373	5273
WMG-LT4	1"	5334	5344	5354	5364	5374	5274
WMG-LT5	11/4"	5335	5345	5355	5365	-	5275
WMG-LT6	1½"	5336	5346	5356	5366	-	5276
WMG-LT7	2"	5337	5347	5357	5367	-	5277
WMG-LT8	21/2"	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.

U.L. File No. E23018

CSA File No. 2884 & 4484



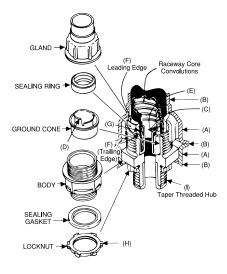
⁺ U.L. Listed as grounding means under NEC 351-7.

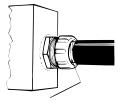
[‡] Not U.L. Listed.

Liquidtight Flexible Metal Conduit Fittings



Series 5331GR





Sleeving

Raceway Jacket pulls off – exposing core and affecting liquidtight termination. Feature (E) on sealing ring helps overcome this problem.

External Bonding Liquidtight Flexible Metal Conduit Connectors

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.
- (i) Compressed metallic convolutions; assures ground contact with low impedance and high raceway holding power (A).
- (ii) Single helical thread on ground cone is easy to install without cross thread; accepts variations in raceway diameters and convolution pitch (B).
- (iii) Rolled over edge protects conductors (C).
- Sealing ring design has following exclusive features:
- (i) Grips and seals at leading and trailing edge – will not abrade raceway jacket (D).
- (ii) Provided with grooves on inside diameter for anti-sleeving (E).
- (iii) Shoulders on both ends for extra sealing (F).
- (iv) Symmetrical shape assures foolproof assembly.
- Can be disconnected and reused.
- Watertight/oil tight installation at box or enclosure termination is assured by:
- 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 U.L. 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): %" thru 6" conduit. 5341GR Series (45°): %" thru 4" conduit. 5351GR Series (90°): %" thru 4" conduit. 5232ALGR Series: %" thru 1" conduit. All hubs provided with taper pipe threads (NPT).

Listed/Certified by:

U.L. File #E-23018 CSA

Conforms to:

U.L. 467 U.L. 514B CSA C22.2 No. 18 CSA22.2 No. 41 NEMA FB-1 NFPA 70-1999 (ANSI) JIC EGP1 JIC EMP1

Federal Specification W-F-406 Federal Standard H-28 (threads)

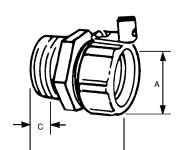
¹ Per C.E. Code, this method is not permissible.



Liquidtight Flexible Metal Conduit Fittings







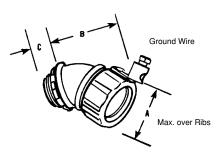
Malleable iron, tapered hub threads.

Straight Grounding Fittings*

Cat. No.				Dimensions (in.)			Ground
Steel Insulated	Steel Non-Insulated	Aluminum ed Non-Insulated	Conduit Size	A	B	C C	Wire D
5331GR**	5231GR	5231 ALGR	3/8"	15⁄32	1½	%16	14-8
5332GR	5232GR	5232ALGR	1/2"	1%	1%	9/16	14-8
5333GR	5233GR	5233ALGR	3/4"	121/32	15⁄8	9⁄ ₁₆	14-4
5334GR	5234GR	5234ALGR	1"	1%	21/16	3/4	14-4
5335GR	5235GR		11⁄4"	21⁄4	21/2	13/16	8-1/0
5336GR	5236GR		1½"	31⁄4	211/16	13/16	4-2/0
5337GR	5237GR		2"	313/16	31/16	7/8	4-2/0
5338GR	5238GR		2½"	4 7/16	41/8	1	2-4/0
5339GR	5239GR		3"	5¾ ₆	41⁄4	1	2-4/0
5340GR	5240GR		4"	61/8	4½	11/8	2-4/0
5385GR	5285GR		5"	8%6	7	1%	2-4/0
5386GR	-		6"	811/32	8½	2	2-4/0







Malleable iron, tapered hub threads.

45° Angle Grounding Fittings

Cat. No.		Conduit	Di	Dimensions (in.)		
Insulated	Non-Insulated	Size	A	В	C	Wire D
5341GR**	5241GR**	3/8"	15⁄32	1%	%16	14-8
5342GR	5242GR	1/2"	1%	1%	9/16	14-8
5343GR	5243GR	3/4"	121/32	21/8	9/16	14-4
5344GR	5244GR	1"	1%	21/4	3/4	14-4
5345GR	5245GR	11/4"	21/4	2¾	13/16	8-1/0
5346GR	5246GR	1½"	31/4	3%	13/16	4-2/0
5347GR	5247GR	2"	313/16	3%	7/8	4-2/0
5348GR	5248GR	21/2"	4 1/16	41/4	1	2-4/0
5349GR	5249GR	3"	5¾6	41/4	1	2-4/0
5350GR	5250GR	4"	61/8	4%	11/8	2-4/0







	Cat. No.			_			Ground
Steel	Steel	Aluminum	Conduit	D	imensions (in.	.)	Wire
Insulated	Non-Insulated	Non-Insulated	Size	A	В	C	D
5351GR**	5251GR**	5251ALGR	3/8"	15⁄32	11⁄4	%16	14-8
5352GR	5252GR	5252ALGR	1/2"	1%	1 7/16	9/16	14-8
5353GR	5253GR	5253ALGR	3/4"	121/32	1 ¹³ / ₁₆	9/16	14-4
5354GR	5254GR	5254ALGR	1"	1%	21/16	3/4	14-4
5355GR	5255GR		11⁄4"	21/4	21/2	13/16	8-1/0
5356GR	5256GR		11/2"	31/4	215/16	13/16	4-2/0
5357GR	5257GR		2"	313/16	3 7/16	7/8	4-2/0
5358GR	5258GR		21/2"	4 7/16	8%	1	2-4/0
5359GR	5259GR		3"	53/16	101/4	1	2-4/0
5360GR	5260GR		4"	61/8	12%	11/8	2-4/0



Malleable iron tapered hub threads.

Note: %"-1" fittings include Revolver" grounding device. For sizes 11/4" and up, fittings are supplied with a copper mechanical lug.



Ground Wire

^{** %&}quot; conduit fittings have ½" trade size hub. With safe-edge ground cone (through 4") and double bevel sealing ring (through 2").

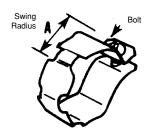
U.L. Listed liquidtight; and CSA Certified watertight. Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 1 and 2; Class III, Div. 1 and 2, where general purpose equipment is specifically permitted per NEC Section 500-2(a). Available with DURA-PLATE® Finish.

U.L. File No. E 3060. CSA File No. 638

Liquidtight Flexible Metal Conduit Fittings







For retrofit applications. Includes strap, nut and bolt.

External	Grounding Stra	p		
Cat. No.	Conduit Size	A	B Bolt Size	
GR1W	3/8"	1	10-24	
GR2W	1/2"	1 1/16	10-24	
GR3W	3/4"	1%	1/4-20	
GR4W	1"	1½	1/4-20	
GR5W	11⁄4"	1%	5/16-18	

U.L. File No. E-3060 CSA File No. 638

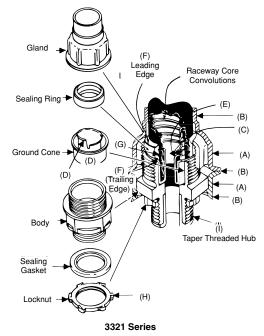


Liquidtight Flexible Metal Conduit Fittings



3321 Series*

*3361 Series... same as 3321, except 90° 3341 Series... same as 3321, except 45°



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 effecting 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 & 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:
- Grips and seals at leading and trailing edge – will not abrade raceway jacket (F).
- (2) Provided with grooves on inside diameter for anti-sleeving (G).
- (3) Shoulders on both ends for extra sealing.
- (4) Symmetrical shape assures fool-proof 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 N.E.C. Article 500.
- Suitable as a grounding means per N.E.C. Section 351-9 (up to 11/4" 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...%" thru 4" conduit.

All hubs provided with taper pipe threads (NPT).

Listed/Certified by:

U.L...(U.L. File E23018) CSA(LR-2884, LR-4484)

Conforms to:

JIC EMP1

U.L. 514B CSA C22.2 No. 18 NEMA FB-1 NFPA 70-1999 (ANSI) JIC EGP1

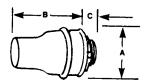
Federal Specification W-F-406 Federal Standard H-28 (THREADS)

Thomas@Betts

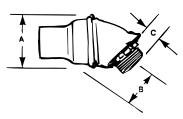
Liquidtight Flexible Metal Conduit Fittings



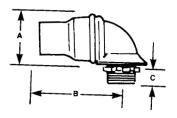




Straight PVC Coated Nylon Insulated Steel or Malleable NPT hub threads



45° PVC Coated Nylon Insulated NPT hub threads



90° PVC Coated Nylon Insulated NPT hub threads

Corrosion	Resistant PVC Jacketed	d Liquidtig	ht Conne	ctors
Cat.	Conduit	_	_	•
No.	Size	A	В	С
Straight PVC Coa	ated			
3321 [†]	3%"	115/32"	25/16"	9/16"
3322 [†]	1/2"	15⁄8"	21/2"	9/16"
3323 [†]	3/4"	1 15/16"	225/32"	9/16"
3324 [†]	1"	21/4"	315/32"	3/4"
3325 [†]	11¼"	211/16"	41/4"	13/16"
3326	11/2"	31/8"	411/16"	13/16"
3327	2"	35%"	55/16"	%"
3328	2½"	43%"	6%"	1"
3329	3"	5¾6"	6½"	1"
3331	4"	6 1/16"	6¾"	11/8"
45° PVC Coated				
3341 [†]	3%"	115/32	11/8"	%6"
3342 [†]	1/2"	15%"	11/4"	9/16"
3343 [†]	3⁄4"	115/16"	1 7/16"	9/16"
3344 [†]	1"	21/4"	113/16"	3⁄4"
3345 [†]	11/4"	211/16"	21/16"	13/16"
3346	1½"	31/8"	211/16"	13/16"
3347	2"	3%"	3¾6"	7∕8"
3348	2½"	43%"	313/16"	1"
3349	3"	5¾6"	4%6"	1"
3352	4"	6 7/16"	5¾"	11/8"
90° PVC Coated				
3361 [†]	3%"	115/32"	2¾6"	9/16"
3362 [†]	1/2"	1%"	2½"	9/16"
3363 [†]	3/4"	1 15/16"	229/32"	9/16"
3364 [†]	1"	21/4"	319/32"	3/4"
3365 [†]	11/4"	211/16"	4½"	¹³ ⁄ ₁₆ "
3366	1½"	31⁄8"	415/16"	13/16"
3367	2"	35%"	511/16"	7∕8"
3368	2½"	43/8"	111/⁄8"	1"
3369	3"	5¾6"	12½"	1"
3371	4"	67/16"	14%"	11/8"

† U.L. Listed as grounding means per NEC. SECT. 351.7

Complies with J.I.C. standards and Federal Specs WF 406B, WF 408B

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

U.L. File No. E 23018

CSA File No. 20014

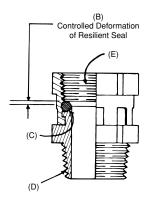
CSA File No. 2884

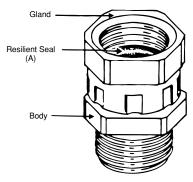


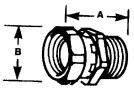
Liquidtight Flexible Metal Conduit Fittings



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 assured (B).
- Unique design centralizes throat openings of threaded hub and union (C).
- Permits orientation of fitting in any predetermined direction for a safe, functional and neat assembly.
- Provided with taper threaded hub for liquidtight assembly (D).
- Straight pipe threads on gland accept a straight or taper threaded hub on fitting or pipe to be coupled (E).
- Suitable for hazardous location use per 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:

U.L....(U.L. File No. E-23018) CSA...(LR-2884, LR-4484)

Conforms to:

U.L. 514B CSA C22.2 No. 18

NEMA FB1

NFPA 70-1999 (ANSI)

Federal Standard W-F-408

Federal Standard W-F-406

Federal Standard H-28 (Threads)

Note: For additional product information refer to Thomas & Betts publication 600.1





Liquidtight Union for Threaded Hub					
Cat. No.	Conduit Size	A	В		
41-TB	1/2"	12%4"	1"		
42-TB	3/4"	1 15/16"	11⁄4"		

U.L. File No. E 23018 CSA File No. 2884

Liquidtight Flexible Metal Conduit Fittings



Series 6302 Liquidtight Flexible Non-Metallic Conduit Connectors



Series 6322 Liquidtight Flexible Non-Metallic Conduit Connectors

Liquidtight Flexible Non-Metallic Liquidtight Type A Conduit Connectors

Application

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

Features

- Serrated, design provides high mechanical pullout strength (A).
- Unique component parts (body/gland) design insures 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, non-burning, non-dripping thermoplastic construction.
- Smooth insulated body throughout for maximum dielectric strength.
- Captive 'O' ring and reduced number of parts save installation time (D).

Standard Material

Body...Thermoplastic Gland...Thermoplastic 'O' Ring...Neoprene

Locknut...Steel (Case Hardened)

Standard Finish

Body, Gland & 'O'	RingAs Molded
Locknut	Electro Zinc

Range

Conduit Size	1/2"	thru 1	1/4
Hub Size	.½" thru 1	⁄4" N.P	т.

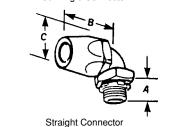


Thermoplastic Fittings for Liquidtight Flexible Non-Metallic Conduit Type A

Corrosion Resistant Applications

Conduit Size	A	В	Cross Corners
1/2"	.60"	1.68"	1.48"
3/4"	.61"	1.85"	1.76"
1"	.77"	1.89"	2.10"
11⁄4"	.79"	2.30"	2.67"
1/2"	.60"	1.56"	1.48"
3/4"	.61"	1.74"	1.76"
1"	.77"	1.78"	2.10"
11⁄4"	.79"	2.13"	2.67"
	%"	Size A ½" .60" ¾" .61" 1" .77" 1¼" .79" ½" .60" ¾" .61" 1" .77"	Size A B ½" .60" 1.68" ¾" .61" 1.85" 1" .77" 1.89" 1¼" .79" 2.30" ½" .60" 1.56" ¾" .61" 1.74" 1" .77" 1.78"

Meets Coast Guard CG293 U.L. File No. E 23018



Anale Connector

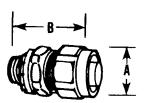
Designed especially for the Type A, all plastic raceways now in use for dynamic machine tool applications.

Fittings are constructed of a high-strength, chemically resistant thermoplastic tougher than the raceway itself.

Neoprene sealing ring is furnished with connector providing a liquidtight seal for knockout applications.



Liquidtight Flexible Metal Conduit Fittings



- Nylon insulated throat.
 T&B Sealing Ring to seal knockouts.
- Steel or malleable iron.
- U.L. Listed.
 NPT hub threads to seal in female threads.
- High mechanical pull-out strength.
 Provides positive seal against water, oil and dust.

Steel/Malleable Iron Liquidtight Flexible
Non-Metallic Conduit Type A

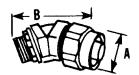
Cat. No.	Conduit Size	Hub Thread	A	В	
3720-TB*	3%"	½ – 14 NPT	15⁄32"	2"	
3721-TB	1/2"	½ - 14 NPT	1%"	21/8"	
3722-TB	3/4"	34 - 14 NPT	1%"	21/4"	
3723	1"	1 - 11½ NPT	1%"	21/2"	
3724-TB	11⁄4"	11/4 - 111/2 NPT	2%"	2"	
3725	1½"	1½ - 11½ NPT	2¾"	3¾"	
3726	2"	2 – 11½ NPT	317/32"	3%"	

^{*} Not U.L. Listed

U.L. File No. E 23018

See charts below for 45 and 90 degree fittings for this series



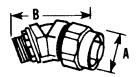


45° Metallic Connector for Non-Metallic Conduit Type A

Cat. No.	Conduit Size	Hub Thread	A	В
3730-TB*	3/8"	½ – 14 NPT	15⁄32"	213/32"
3731-TB	1/2"	½ - 14 NPT	13/8"	29/16"
3732	3/4"	¾ − 14 NPT	1%"	3"
3733-TB	1"	1 – 11½ NPT	1%"	3½"
3734-TB	11⁄4"	11/4 - 111/2 NPT	23/8"	41/8"
3735-TB	1½"	1½ - 11½ NPT	2¾"	4%"
3736	2"	2 – 11½ NPT	317/32"	5½"

^{*} Not U.L. Listed U.L. File No. E 23018





90° Metallic Connector for Non-Metallic Conduit Type A

Cat. No.	Conduit Size	Hub Thread	Α	В
3740*	3/8"	½ – 14 NPT	15⁄32"	15%"
3741	1/2"	½ - 14 NPT	1%"	1¾"
3742	3/4"	34 - 14 NPT	1%"	21/4"
3743-TB	1"	1 - 11½ NPT	11%"	29/16"
3744-TB	11/4"	1¼ - 11½ NPT	2¾"	31⁄4"
3745	1½"	1½ - 11½ NPT	2¾"	3½"
3746-TB	2"	2 - 11½ NPT	217/32"	41/8"

^{*} Not U.L. Listed U.L. File No. E 23018



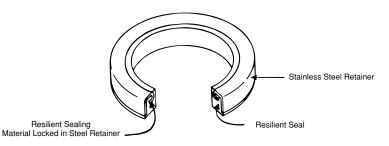
Liquidtight Flexible Metal Conduit Fittings



Application

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

Liquidtight Sealing Gasket



Features

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

Standard Material

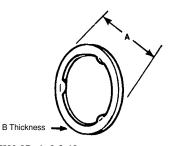
Retainer	Stainless Steel
Sealing Material	Santoprene
	Thermoplastic Rubber

Range

1/2" thru 4" Hub Size







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

Sealing Ring with Stainless Steel Retainer

Cat.	Conduit	Dimensior	(in.)
No.	Size	A	В
5299**	1/4"	.80"	.11"
5261**	3/8"	.95"	.11"
5262	1/2"	1.16"	.18"
5263	3/4"	1.49"	.19"
5264	1"	1.75"	.19"
5265	11/4"	2.15"	.22"
5266	1½"	2.42"	.23"
5267	2"	2.92"	.23"
5268	2½"	3.44"	.23"
5269	3"	4.08"	.23"
5270	4"	5.29"	.31"

** U.L. not applicable U.L. File No. E 13938 CSA File No. 2884







NEMA 3R, 4, 6 & 13
Made of flame retardant neoprene, these new
K.O. plugs meet U.L. 514 flammability test.
They provide a raintight, dust, and oil-tight reusable seal for electrical knockouts. NEMA 3R,
4, 6 & 13 boxes can be saved or re-used whenever a K.O. is no longer used. No tools needed
to install; just push into hole ... they snap in.
Temperature range – 30°C to 105°C.

Liquidtight K.O. Plug

Cat.		
No.	Size	Α
5710	1/2"	1%2"
5711	3⁄4"	1½"
5712	1"	127/32"
5713	11⁄4"	27⁄32"
5714	1½"	2½"
5715	2"	3¾2"
5716	2½"	321/32"
5717	3"	41%4"
5718	4"	519/64"

U.L. Listed raintight CSA not applicable

Meets Coast Guard Regulation CG293

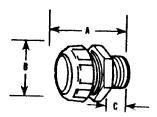
U.L. File No. E 13938 CSA File No. 2884



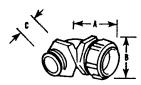
Liquidtight Flexible Metal Conduit Fittings











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 insulat	ted straight connec	tors				
9330	1/4"	16	36	21	12	
9331	1/4"	20	36	21	12	
9306	5/16"	16	36	26	12	
9360	3%"	16	40	29	16	
9361	3/8"	20	40	29	16	
9362	1/2"	20	42	35	16	
9363	3/4"	25	45	42	16	
9364	1"	32	54	47	23	
Nylon insulat	ted 45° angle conne	ectors				
9340	3/8"	16	27	29	16	
9341	3/8"	20	27	29	16	
9342	1/2"	20	27	35	16	
9343TB	3/4"	25	31	42	16	
9344	1"	32	34	47	23	
Nylon insulat	ted 90° angle conne	ectors				
9350	3/8"	16	35	29	16	
9351	3/8"	20	35	29	16	
9352TB	1/2"	20	39	35	16	
9353TB	3/4"	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).

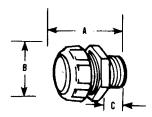
U.L. File No. E 23018

CSA File No. 2884

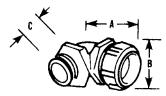
Liquidtight Flexible Metal Conduit Fittings











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 insulate	d straight connectors	s			
7330	1/4"	9	36	21	12
7331	1/4"	11	36	21	12
7360	5/16"	9	36	26	12
7361	3/8"†	11	40	29	14
7362	3/8"†	13.5	40	29	14
7363	1½"†	16	41	35	14
7364	3/4"†	21	43	42	14
7365	1 " [†]	29	56	47	19
7366	11/4"†	36	67	58	21
7367	1½"	42	72	69	21
' 368	2"	48	81	83	21
Nylon insulate	d 45° angle connecto	ors			
' 341	3/8"†	11	27	29	14
342	3∕8"†	13.5	27	29	14
343	1/2"†	16	30	35	14
'344-TB	3/4"†	21	34	42	14
345	1"	29	44	47	19
7346	11/4"†	36	51	58	19
7347	1½"	42	60	69	21
348-TB	2"	48	73	76	24
lylon insulate	d 90° angle connecto	ors			
7351	3/8"†	11	37	29	14
7352	3/8"†	13.5	37	29	14
7353	1/2"†	16	40	35	14
7354	3/4"†	21	44	42	14
355	1 " [†]	29	56	47	21
7356	1 1⁄4 [†]	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 An items shown on this page are suitable for use in Hazardous location where general purpose equipmen 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. Listed as grounding means under NEC 351-7.

U.L. Listed liquidtight.

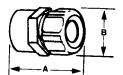
CSA Certified watertight.

U.L. File No. E-23018

CSA File No. 2884







T&B Liquidtight flexible metal and Liquidtight flexible nonmetallic fittings with internal threads to accept AN-MS connector shells. Material: Steel

Liquid	tight	Flexible	Metal/I	MS Co	onnecto	rs

		Internal	Thread		
Cat. No.	Trade Size	AN-MS Conn. Shell Size	Thread Size	Dimension	ons (in.) B
LTA03810	3/8"	10SL, 12, 12S%" –	24 UNEF-2B	15⁄32	1
LTA05014	1/2"	14, 145¾" – 20		15/16	11/4
LTA05016 LTA05018	½" ½"	16, 16S%" – 20 18 1" – 20 l		15/ ₁₆	1¼ 1¼
LTA07520	3⁄4"	20, 221¾6" – 1	B UNEF-2B	1 7/16	1½
LTA10020	1"	20, 221¾6" – 1		13/4	123/32
LTA10024	1"	25, 281 7/16" – 18	B UNEF-2B	1¾	123/32

U.L. File No. E 23018 CSA File No. 2884



Liquidtight Flexible Metal Conduit Fittings



ig. 1

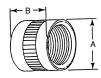
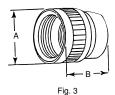


Fig. 2



Mechanical adapter with internal threads to mate with NPT threaded fittings and MS type connectors. Material: aluminum

NPT	/MS C	Connect	tor Ac	lapters

Cat.	N.P.T.	AN-MS Connector	Thread	Std.	Din	nensions (in.)
No.	Thread	Shell Size	Size	Pkg.	A	Fig.	В
MSA05014	1/2"	14, 14S	34" - 20 UNEF-2B	10	1.000	1	1.175
MSA05016	1/2"	16, 16S	%" - 20 UNEF-2B	10	1.000	2	1.175
MSA05018	1/2"	18	1" - 20 UNEF-2B	10	1.125	3	1.175
MSA07516	3/4"	16, 16S	7/8" - 20 UNEF-2B	10	1.250	1	1.356
MSA07518	3/4"	18	1" - 20 UNEF-2B	10	1.250	1	1.300
MSA07520	3/4"	20, 22	1¾6" – 18 UNEF-2B	10	1.375	3	1.300
MSA10020	1"	20, 22	1¾6" – 18 UNEF-2B	10	1.500	1	1.431
MSA10024	1"	24, 28	1 7/16" - 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).



XTRAFLEX® System – Conduit, Tubing, Fittings for Nonmetallic Liquidtight Conduit



- Clamping fingers. Outside surface has friction reducing ridges; inner surface teeth bite into conduit or tubing to enhance clamping and sealing action.
- Fitting ferrule is designed to accept variations in conduit sizes and field conduit cuts.
- Ferrule profile is smooth, reducing friction to assure a tight conduit-to-fitting seal.
- Friction reducing ridges and teeth provide a true double seal and high pullout resistance.
- Elongated gland nut provides additional strain relief for 90° pull and easy hand grip.
 Rugged low-profile nonmetallic body and
- Rugged low-profile nonmetallic body and gland construction provides space savings.
 Captivated sealing "O" ring features predeter-
- Captivated sealing "O" ring features predetermined compression to provide a reliable seal at enclosure.
- Steel locknut firmly secures fitting to box or enclosure.

The BULLET® nonmetallic liquidtight fitting – easy to use, built to take it.

This engineering breakthrough meets the demand for a tough, reusable, non-metallic liquidtight fitting for use with XTRAFLEX® Type B conduit or flexible tubing.

The BULLET® nonmetallic fitting provides a reliable liquidtight seal that combines high pullout resistance and ease of installation.

Engineered to meet your needs.

The BULLET® nonmetallic fitting meets your performance requirements when terminating Type B liquidtight nonmetallic conduit or flexible nonmetallic 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® liquid-tight fittings can be installed without

disassembly. BULLET® nonmetallic fittings are resistant to numerous caustics and solvents.

And 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 XTRAFLEX® 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 wiring 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.

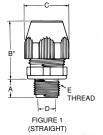


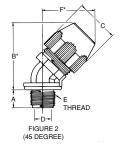


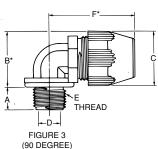
Plastic Bullet® Liquidtight Fittings for T&B LTC Nonmetallic Liquidtight Conduit Type B and T&B EFC Flexible Tubing

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	3/8	(14.48)	2.012 (51.10)	(34.39)	(10.59)	1/2-14	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	1/2	(14.48)	2.092 (53.14)	(36.78)	(13.97)	1/2-14	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	3/4	(14.78)	2.452 (62.28)	(44.20)	(18.80)	3/4-14	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	11/4	(19.05)	3.264 (82.91)	(63.35)	(31.93)	11/4-111/2	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	11/2	(19.48)	3.605 (91.57)	(70.71)	(36.91)	11/2-111/2	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)

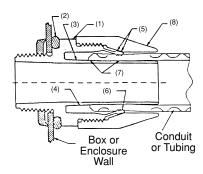
* After Assembly U.L. File No. E-23018 CSA File No. 52391







XTRAFLEX® System – Conduit, Tubing, Fittings for Nonmetallic Liquidtight Conduit



Specification Sheet – Bullet® Liquidtight Fittings or Liquidtight Flexible Nonmetallic Conduit and Tubing

Application

A series of non-metallic connectors designed to provide a liquidtight seal when terminating liquidtight non-metallic conduit (U.L. Type B) or liquidtight non-metallic tubing to a box or enclosure with knockout opening or a threaded hub.

Plastic Bullet® Liquidtight Fittings Feature

- 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) allowing 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: U.L. 94-V2.

Listed/Certified by:

U.L. (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.

Suggested Specification:

Where liquidtight flexible nonmetallic conduit (U.L. Type B) or liquidtight flexible nonmetallic tubing is terminated to a box or enclosure, the nonmetallic 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.



XTRAFLEX® System - Conduit, Tubing, Fittings for Nonmetallic 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	Р
5% Potassuim Dichromate	Unchanged yellowing	Р
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	Р
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.	Р
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 E
Potassium Hydroxide (10%)	73	Minimal effect	
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	Е
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	Ē
Gasoline	Unchanged	Ē
Petroleum	Unchanged	Ē
Mineral Oil	Unchanged	E
Resorcinol	Dissolves	NR

^{*} These abbreviations are used for the ratings:

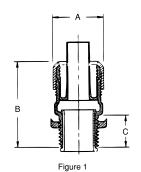
E- Excellent P- Poor G- Good NR- Not Recommended F- Fair S- Solvent

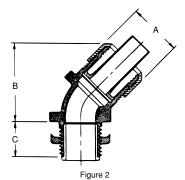


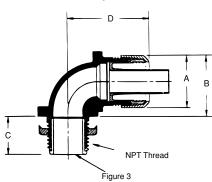
XTRAFLEX® System – Conduit, Tubing, Fittings for Nonmetallic Liquidtight Conduit











Metallic Bullet® Liquidtight Connectors for T&B LTC Nonmetallic 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	3/8	(29.4)	1.962 (49.8)	0.562 (14.3)		1/2-14
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	1/2	(34.9)	1.875 (47.6)	0.562 (14.3)		1/2-14
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	3/4	(42.1)	2.125 (54.0)	0.562 (14.3)		3/4-14
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	11/4	(60.3)	2.750 (69.8)	0.812 (20.6)		11/4-111/2
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	11/2	(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 U.L. File No. E-23018 CSA File No. 52391

Suggested Specification:

Where liquidtight flexible nonmetallic conduit (U.L. Type B) or liquidtight flexible nonmetallic 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/MI Insert-Nylon



XTRAFLEX® System – Conduit, Tubing, Fittings for Nonmetallic 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 %", ½", and %" Xtraflex® EFC and LTC nonmetallic

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

The Xtraflex® system offers a lightweight, liquidtight flexible conduit solution for industrial applications. The Xtraflex® system allows fast, easy installation and high performance in demanding industrial applications.



ISO Metric	Bullet® L	iquidtig	ht Fittin	g		
Cat. No.	Angle of Fitting	Conduit Size	Knockout Size	Unit Package	Standard Package	UPC Number
LT38M-ISO20	Straight	3/8"	1/2"	25	100	786210-62281
LT50M-ISO20	Straight	1/2"	1/2"	25	100	786210-62282
LT75M-ISO25	Straight	3/4"	3/4"	25	50	786210-62283
LT438M-ISO20	45°	3/8"	1/2"	25	50	786210-62284
LT450M-ISO20	45°	1/2"	1/2"	25	50	786210-62285
LT475M-ISO25	45°	3/4"	3/4"	10	50	786210-62286
LT938M-ISO20	90°	3/8"	1/2"	25	50	786210-62288
LT950M-ISO20	90°	1/2"	1/2"	25	50	786210-62289
LT975M-ISO25	90°	3/4"	3/4"	10	50	786210-62290

^{*}Meets watertight requirements of NEMA Type 4 enclosure or IP 56 rating with LTC conduit or EFC tubing with installed T&B Bullet liquidtight fittings. Connector Locknut not included.



ISO Metric	Bullet® L	iquidtig.	ht Fitting	g Non-M	etallic	
Cat. No.	Angle of Fitting	Conduit Size	Knockout Size	Unit Package	Standard Package	UPC Number
LT38P-ISO20	Straight	3/8"	1/2"	25	100	786210-66444
LT50P-ISO20	Straight	1/2"	1/2"	25	100	786210-66613
LT75P-ISO25	Straight	3/4"	3/4"	25	50	786210-66443
LT938P-ISO20	90°	3/8"	1/2"	25	50	786210-66612
LT950P-ISO20	90°	1/2"	1/2"	25	50	786210-66640
LT975M-ISO25	90°	3/4"	3/4"	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.

XTRAFLEX® System – Conduit, Tubing, Fittings for Nonmetallic Liquidtight Conduit Material - PVC







OEM Grade U.L. Recognized

- Material PVC.
- Black color standard.
- Maximum flexibility in tight applications.
- 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
- Indoor/outdoor lighting.
- Packaging equipment.
- Marine and shipboard wiring.
 Flexing component wiring protection on robots, graphic arts equipment, etc.

Corrugated Flexible Nonmetallic Tubing

	Conduit	I.D. (in.)		O.D. (in.)	
Cat. No.	Size	min.	max.	min.	max.
EFC025*	1/4"	.390	.405	.560	.575
EFC038	3/8"	.484	.504	.690	.710
EFC050	1/2"	.622	.642	.820	.840
EFC075	3/4"	.820	.840	1.030	1.050
EFC100	1"	1.041	1.066	1.290	1.315
EFC125	11⁄4"	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

* Not CSA Certified. Underwriters Recognized U.L. File No. 96548 CSA File No. 067241 See technical data next page.

Use with Bullet® Liquidtight Fittings.

Cat. No. LTC –	Color of Conduit
w/o suffix	Black
-1	Orange
-2	Blue

Available Colors







Commercial Grade U.L./CSA Listed

- Gray color standard
- 80°C temperature rated
- UV resistant
- Material PVC

Commercial Grade Type B Nonmetallic Liquidtight Conduit

Cat.		I.D. (in.)		O.D. (in.)	
No.	Size	min.	max.	min.	max.
LTC038GY	3/8"	.484	.504	.690	.710
LTC050GY	1/2"	.622	.642	.820	.840
LTC075GY	3/4"	.820	.840	1.030	1.050
LTC100GY	1"	1.041	1.066	1.290	1.315
LTC125GY	11/4"	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

U.L. Listed, U.L. File No. 95745 CSA Certified, CSA File No. LL 80349 See technical tables on next page.



XTRAFLEX® System – Conduit, Tubing, Fittings for Nonmetallic Liquidtight Conduit Material - PVC







Industrial Grade U.L./CSA Listed

- Material PVC.
- Liquidtight nonmetallic conduit Type B.
- Black color standard.
- Fast installation even in tight, cramped
- Smooth inner diameter allows easy wire pulling.
- Smooth outer jacket uses material approved for outdoor use, is sunlight resistant and oil resistant
- Tested to CSA and U.L. requirements.
 Lightweight and liquidtight.
- Temperature range of -18°C to +105°C
- (-2°F to +221°F).
 Flammability Rating UL1660.
 Marked at one-foot intervals for fast, easy measuring and cutting.

Recommended industrial applications

- Machine tools.
- · Motor hookups.
- Food processing equipment.
- Extensions from wireways.
- Sensor and microswitch wiring found in control consoles.

	Conduit	I.D	I.D. (in.)		O.D. (in.)	
Cat. No.	Size	min.	max.	min.	max.	
LTC038	3/8"	.484	.504	.690	.710	
LTC050	1/2"	.622	.642	.820	.840	
LTC075	3/4"	.820	.840	1.030	1.050	
LTC100	1"	1.041	1.066	1.290	1.315	
LTC125	11⁄4"	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	

Smooth Liquidtight Nonmetallic Conduit Type B

Rated at 600V XTRAFLEX® 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). U.L. Listed, U.L. File No. E95745

CSA Certified, CSA File No. LL80349 See technical data below.

Use with Bullet® Liquidtight Fittings.

Available Colors				
Cat. No. LTC –	Color of Conduit	Color of Marking		
w/o suffix	Black	Orange		
-1	Orange	Black		
-2	Blue	Black		



XTRAFLEX® Conduit and Tubing Technical Data*

LTFNMC = Liquidtight flexible nonmetallic conduit.

LTFNMT = Liquidtight flexible nonmetallic tubing

Xtraflex® Conduit & Tubing	Style	Color	Size Range	U.L. Temp Rating	CSA Temp Rating	Voltage Rating	U.L. Oil Resistant	U.L. Outdoor	U.L. Direct Burial
LTC038 Series	UL Type B LTFNMC	Black Black	3%"-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	1⁄2"-1"	105°C Dry 60°C Wet 70°C Oil	=	600V	Yes	No	Yes
LTC038GY Series	UL Type B LTFNMC	Grey	3⁄8"-2"	80°C Dry 60°C Wet 70°C Oil	=	600V	Yes	Yes	Yes
EFC025 Series** EFC025-1, -2** Series	LTFNMT LTFNMT	Black Orange, Blue	1/4"-2" 1/2"-1"	105°C 105°C	75°C-18 C –	300V 300V	Yes Yes	Yes No	No No

^{*} For a complete test report, contact Customer Service.

** U.L. Component Recognized



XTRAFLEX® System – Conduit, Tubing, Fittings for Nonmetallic Liquidtight Conduit Material – PVC

XTRAFLEX® Nonmetallic Conduit Type B and Flexible Tubing

A = Satisfactory Chemical	B = Be Expected to Change Chemical	C = Not Recommended Chemical
Acetate Solvents	Cottonseed Oil	Lubricating Oils
Acetic Acid (10%)	CreosoteC	Magnesium Chloride
Acetic Acid (Glacial)	CresolA	Magnesium Hydroxide
Acetone	Cresylic Acid	Magnesium Sulphate
crylonitrile	Cyclohexane	Malic Acid
•		
dipic Acid	Cyclohexanone	Methyl Acetate
Icohol Butyl	DDT Weed Killer	Methyl Bromide(
cohol Ethyl	Detergent Synthetic	Methyl Ethyl Ketone
cohol Isopropyl	Developers Photographic	Methylene Chloride
cohol Methyl	Dextrin	Mineral Oils
uminum AcetateA	Dextrose	Monochlorobenzene
uminum Chloride	Dibutyle Phthalate	Naphtha
uminum Hydroxide	Dichlorobenzene	Naphthalene
uminum Súlfate	Diesel Oil	Nitric Acid (10%)
iyl Chloride	Diethylene Glycol	Nitric Acid (40%)
nmonia (0.88S.G.Aqueous)	Diethyl Ether	Nitric Acid (70%)
nmonia (Dry Gas)	Di-isodecyl Phthalate	Nitrobenzene
nmonia (Liquid)	Dioctyle Phthalate	Nitrogen Fertilizers
nmonium Chloride	Emulsifiers	Oleic Acid
nmonium Hydroxide	Emulsions Photographic A	Oxalic Acid
nimal OilsA	Ethyl Acetate	Palmitic Acid
nyl AcetateC	Ethylene Dichloride	Paraffin
niline OilsB	Ethylene Glycol	Pentane
omatic Hydrocarbons	Fatty Acid	Perchloroethylene
	Ferric Chloride	
sphaltC		Phenol
STM Fuel A	Ferric Sulphate	Phosphoric Acid
STM Fuel B	Ferrous ChlorideA	Pitch
STM #1 OilA	Ferrous Sulphate	Potassium Hydroxide
STM #3 Oil B	Fixing Solution Photographic	Propane
arium Chloride	Fluorine	Sea Water
arium HydroxideA	Formaldehyde (40%)	Sodium Hydroxide (10%)
arium Sulfide	Formic Acid (40%)A	Sodium Hydroxide (50%)
enzene	Formic Acid (50%)B	Sodium Cyanide
enzineB	Formic Acid (100%)	Soybean Oil
		Stearic Acid
ordeaux Mixture	Fuel Oil	
orax A	Glacial Acetic Acid	Styrene
oric Acid A	Glucose A	Sulphur Dioxide (Dry)
ineA	Glycerine	Sulphur Dioxide (Moist)
omine TracesC	Grape Sugar	Sulphur Dioxide (Liquid)
ıtyl Acetate	Grease	Sulphuric Acid (45%)
alcium Hydroxide	Heptane	Sulphuric Acid (60%)
alcium Hypochlorite	Hexane	Sulphuric Acid (98%)
arbonic AcidB	Hydrobromic AcidA	Sulphurous Acid (30%)
	Hydrochloric Acid (10%) A	
arbon Dioxide		Tannic Acid
arbon Disulphite	Hydrochloric Acid (40%) A	Tartaric Acid
arbon Monoxide A	Hydrofluoric Acid (10%)A	Tetrahydrofuran
ırbon Tetrachloride	Hydrofluoric Acid (40%)B	Toluene
ısein	Hydrofluoboric Acid	Trichlorethylene
lorine (Dry)	Hydrofluosilicic Acid	Triethanolamine
lorine (Wet Gas)	Hydrogen Peroxide	Tricresyl Phosphate
lorine (Water)	Hydrogen SulphideA	Turpentine
,		•
lorobenzene	Iso-octan	Urea
lorinated Hydrocarbons	Isopropyl Acetate	Vinegar
nloroformC	Kerosene	Vinyl Acetate
romic Acid	Ketones	Vinyl Chloride
tric AcidA	Lactic Acid (10%)	Water
pal Tar	Lactic Acid (100%)	Xylene
opper Chloride	Lacquer Solvents	Zinc Chloride
opper Nitrate	Linseed Oil	Zinc Sulphate
opper SulphateA	LIII3000 UIIA	Zino Julphato

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.



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 which take twice the cable range of ordinary strain relief connectors.

- Smaller overall size which makes it easy to fit into tight spaces.
- Gland nut design that restricts cable bending.
- Choice of aluminum, steel and nonmetallic 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 cables applications, where exceptional mechanical strain relief is needed in addition to a dependable seal against dust, oil, and other liquids.

The patented design of our flexible cord and power cable fittings are 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 water tight, and U.L. listed for liquid-tightness 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 toolfree installation, with a segmented chuck for high mechanical pullout performance, and neo-prene bushings for a secure, liquid-tight 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, SJO, SJT, SJTO, SVO	Ranger™ 2920NM# Series, 2920# Series 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.



Flexible Cords and Cable Fittings



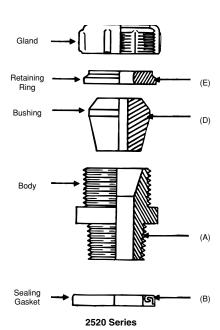
2920 Series



2920AL Series



2516 Series



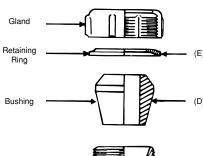
Liquidtight Flexible Cord and Cable Connectors

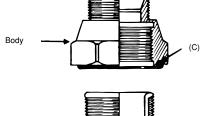
Application

 A liquidtight connector to connect flexible cord or cable to an enclosure and provide adequate strain relief

Features

- Liquidtight connection with enclosure is assured 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
- U.L. Listed liquidtight, strain relief and as an outlet bushing; CSA certified watertight





2631 Series

Nipple

Standard Material

Gland, Body Steel/Ma	alleable 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, straigh	it125" outside
	diameter to 3.200"
outside dian	neter Cord or Cable
2200 Series, 45°	125" outside
	diameter to 1.485"
outside dian	neter Cord or Cable
2267 Series, 90°	125" outside
	diameter to 1.875"
outside dian	neter Cord or Cable
Cord/Cable Type	S, SO, SV, ST,
	STO, SJ, SJO, SJT,
	SJTO, SVO & SVT

Listed/Certified by:

U.L(U.L.	File No. E-13938)
CSA	.LR-589, LR-4484

Conforms to:

U.L. 514 CSA 22.2 No. 18 ANSI C33.84, NFPA 70-1978 (ANSI)



Flexible Cords and Cable Fittings



2920 Series



2920NM Series



2920AL Series



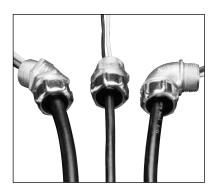
2516 Series

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.



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 allow 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 (armored or unarmored) into an enclosure, through a bulkhead or into a rigid conduit.
- Form a mechanical grip and water and/or oil-resistant seal for cord and unarmored or jacketed armored round cables.
- Form a non-slip connection or termination for flexible cord, cable (armored or unarmored).
- Provide grounding continuity of cable armor.

Cord & Cable Type

• S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVD

Features

- 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"





 Extended range with 	superior	strain	relief.
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Steel Liquidtight Strain Relief Connectors - straight

Cat.	Hub	Throat			Dimensions (in.))
No.	Size	Dia.	Cord Range	A	В	C
2920	1/2	%16	.125375	11/8	1¾	5/8
2921	1/2	9/16	.310560	11/8	1¾	5/8
2922	1/2	9/16	.500750	1%	1¾	5/8
2930	3/4	¹³ ⁄ ₁₆	.125375	13/8	125/32	3/4
2931	3/4	¹³ ⁄ ₁₆	.310560	1%	125/32	3/4
2932	3/4	¹³ ⁄ ₁₆	.500750	13/8	125/32	3/4
2940	1	11/16	.310560	1%	1¾	1 1/16
2941	1	11/16	.500750	13/8	13/4	1 1/16
2942	1	31/32	.700950	1%	1%	31/32

Steel Liquidtight Strain Relief Connectors – 45° angle

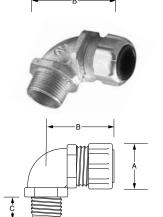
Cat.	Hub	Throat			Dimensions (in.)
No.	Size	Dia.	Cord Range	A	В	С
4920	1/2	37/64	.125375	11/8	15⁄16	% ₁₆
4921	1/2	37/64	.310560	11/8	15/16	9/16
4922	1/2	37/64	.500750	1%	1 7/16	9/16
4930	3/4	25/32	.125375	1%	1 7/16	5/8
4931	3/4	25/32	.310560	1%	1 7/16	5/8
4932	3/4	25/32	.500750	1%	1 7/16	5/8
4940	1	15/16	.310560	1%	117/32	25/32

Steel Liquidtight Strain Relief Connectors - 90° angle

Cat.	Hub	Throat			Dimensions (in.)
No.	Size	Dia.	Cord Range	A	В	C
4960	1/2	19/32	.125375	11/8	1¾	5/8
4961	1/2	19/32	.310560	11/8	1¾	5/8
4962	1/2	19/32	.500750	1%	123/64	5/8
4970	3/4	25/32	.125375	1%	125/32	11/16
4971	3/4	25/32	.310560	1%	125/32	11/16
4972	3/4	25/32	.500750	1%	125/32	11/16
4980	1	1	.310560	1%	21/32	13/16
	•	•	.0.0.000	.70	2702	

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. É-13938 CSA File No. 52391



For wire mesh grips refer to pages A119, A154.



Flexible Cords and Cable Fittings



The Ranger™ Series of Nonmetallic Liquidtight Cord Connectors

The Ranger Series Nonmetallic Liquidtight Cord Connector takes twice the cable range of most ordinary strain relief connectors. T&B's Ranger Connectors allow 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 cable (armored or unarmored) into an enclosure, through a bulkhead or into a rigid conduit.
- Form a mechanical grip and water and/or oil-resistant seal for cord and unarmored or jacketed armored round cables.
- Form a non-slip connection or termination for flexible cord, cable (armored or unarmored).
- Provide grounding continuity of cable armor.

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"

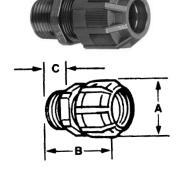
Hub Size Range Straight - $\frac{1}{2}$ " to 1" 90° - $\frac{1}{2}$ " to $\frac{3}{4}$ "



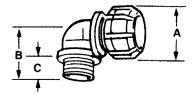


Nonmetallic Liquidtight Strain Relief Connector – straight

Cat.	Trade or	Throat			Dimensions (in.)			
No.	Hub Size	Dia.	Cord Range	A	В	C		
2920NM	1/2"	.55	.125375	17⁄32	21/8	5/8		
2921NM	1/2"	.55	.310560	17⁄32	21/8	5/8		
2922NM	1/2"	.55	.500750	113/32	25/32	5/8		
2930NM	3/4"	.79	.125375	113/32	23/16	5/8		
2931NM	3/4"	.79	.310560	113/32	23/16	5/8		
2932NM	3/4"	.79	.500750	113/32	23/16	5/8		
2940NM	1"	.98	.310560	113/32	211/32	25/32		
2941NM	1"	.98	.500750	113/32	211/32	25/32		
2942NM	1"	.98	.700950	143/64	2%	25/32		







Nonmetallic Liquidtight Strain Relief Connector - 90° elbow

Cat.	Trade or	Throat			.)	
No.	Hub Size	Dia.	Cord Range	A	В	С
4960NM	1/2"	.55	.125375	13⁄32	11⁄4	5%
4961NM	1/2"	.55	.310560	17⁄32	11/4	5/8
4970NM	3/4"	.79	.125375	113/32	1%	5/8
4971NM	3/4"	.79	.310560	113/32	1%	5/8
4972NM	3/4"	.79	.500750	113/32	13/8	5/8

U.L. File No. E 13938 CSA File No. 52391 Meets Coast Guard CG293



Flexible Cords and Cable Fittings



The Ranger™ Series of Aluminum Liquidtight Cord Connectors

The Ranger Series Aluminum Liquidtight Connector takes twice the cable range of most ordinary strain relief connectors. T&B's Ranger Connectors allow you to reduce your inventory and save time, with one connector that can do the work of two. The sturdy aluminum material adds corrosion resistance to your installation.

Application

- Provide means for passing a cord cable (armored or unarmored) into an enclosure, through a bulkhead or into a rigid conduit.
- Form a mechanical grip and water and/ or oil-resistant seal for cord and unarmored or jacketed armored round cables.
- Form a non-slip connection or termination for flexible cord, cable (armored or unarmored).
- Provide grounding continuity of cable armor.

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: Aluminum

Gland Nut, Grip: Aluminum-all series Bushing: Rubber

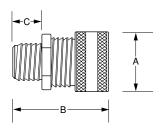
Environment Classification

- Ordinary Locations
- Wet or dry locations

Range

Cord Range .125" to .950" Hub Size Range ½" to 1"





Aluminum Liquidtight Strain Relief Connectors – straight

Cat.	Hub	Throat		Dimensions (in.)			
No.	Size	Dia.	Cord Range	A	В	С	
2920AL	1/2	%6	.125375	11/8	1¾	5/8	
2921AL	1/2	9/16	.310560	11/8	13/4	5/8	
2922AL*	1/2	9/16	.500750	1 5⁄16	1¾	5/8	
2930AL	3/4	13/16	.125375	1 5⁄16	125/32	3/8	
2931AL	3/4	13/16	.310560	1 5⁄16	125/32	3/4	
2932AL	3/4	13/16	.500750	1 5⁄16	125/32	3/4	
2940AL	1	11/16	.310560	1 5⁄16	1¾	1 1/16	
2941AL	1	11/16	.500750	1 5⁄16	1¾	1 1/16	
2942AL	1	31/32	.700950	1%	1%	31/32	

For 1-2" Aluminum Strain Relief Connectors, see next page.

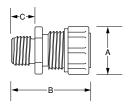


Flexible Cords and Cable Fittings

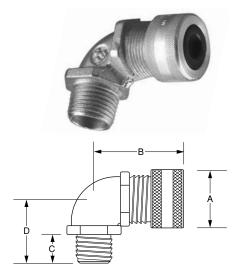








Aluminum Liquidtight Strain Relief Connectors – straight										
Cat.	Hub	Throat			Dimensions (in	.)				
No.	Size	Dia.	Cord Range	Ä	В	С				
2541AL	(.250375)	1"	49/64"	111/16	1 ²³ / ₃₂	9/16				
2542AL	(.375500)	1"	49/64"	111/16	123/32	9/16				
2544AL	(.500625)	1"	49/64"	111/16	123/32	9/16				
2545AL	(.625750)	1"	49/64"	111/16	123/32	9/16				
2546AL	(.750880)	1"	63/64"	111/16	1%	9/16				
2547AL	(.875985)	1"	63/64"	111/16	1%	9/16				
2548AL*	(.880-1.065)	1"	29/32"	21/16	23/8	25/32				
2549AL*	(1.065-1.205)	1"	29/32"	21/16	2%	25/32				
2558AL	(.880-1.065)	11/4"	117/64"	21/8	25/32	5/8				
2559AL	(1.065-1.205)	11/4"	117/64"	21/16	25/32	5/8				
2556AL*	(1.187-1.375)	11/4"	11/4"	25/16	21/2	13/16				
2557AL*	(1.375-1.485)	11/4"	11/4"	25/16	21/2	13/16				
2562AL	(.812-1.000)	11/2"	1 7/16"	25/16	21/2	13/16				
2563AL	(1.000-1.187)	11/2"	1 7/16"	25/16	2 1/16	11/16				
2564AL	(1.187-1.375)	11/2"	1 7/16"	21/4	2 1/16	11/16				
2565AL*	(1.375-1.625)	11/2"	129/64"	2¾	25/8	13/16				
2573AL	(1.125-1.375)	2"	1%"	2¾	25/8	13/16				
2574AL	(1.375-1.625)	2"	1%"	2¾	25/8	13/16				
2575AL	(1.625-1.875)	2"	1%"	2¾	31/2	13/16				
2576AL*	(1.750-1.965)	2"	129/32"	31/32	3½	13/16				
2577AL*	(1.937-2.187)	2"	129/32"	31/32	3½	13/16				



Cat.	Trade or	Throat		Dimensions (in.)				
No.	Hub Size	Diam.	Cord Range	Α	В	C	D	
4960AL	1/2	19/32	.125375	11/8	1¾	5/8	15/16	
4961AL	1/2	19/32	.360560	11/8	13/4	5/8	15/16	
4962AL*	1/2	19/32	.500750	1 5⁄16	123/64	5/8	1%	
4970AL	3/4	25/32	.125375	15/16	125/32	11/16	115/32	
4971AL	3/4	25/32	.310560	1 5⁄16	125/32	11/16	115/32	
4972AL	3/4	25/32	.500750	15/16	125/32	11/16	115/32	
4980AL	1	1	.310560	1 5⁄16	21/32	13/16	13/4	
1981AL	1	1	.500750	15/16	21/32	13/16	13/4	
4982AL	1	1	.700950	19/16	211/16	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).

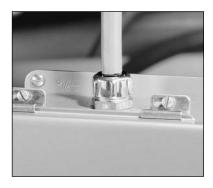
U.L. File No. E-13938

CSA File No. E-2011

CSA File No. 52391

For wire mesh grips refer to pages A119, A154.

Flexible Cords and Cable Fittings



T&B Liquidtight Strain Relief Cord Connectors

The T&B Steel Liquidtight Strain Relief Cord Connector is suited for most general control and power cable applications. This series features sturdy neoprene bushings and tapered hub threads.

Application

- Provide means for passing a cord cable (armored or unarmored) into an enclosure, through a bulkhead or into a rigid conduit.
- · Form a mechanical grip and water and/or oilresistant seal for cord and unarmored or jacketed armored round cables.
- Form a non-slip connection or termination for flexible cord, cable (armored or unarmored).
- Provide grounding continuity of cable armor.

Cord & Cable Type

• S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVD

• Extended range with superior strain relief.

Liquidtight Strain Relief Connectors

- 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

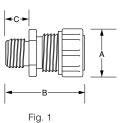
- Ordinary Locations
- Wet or dry locations

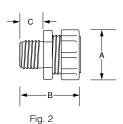
Cord Range .125" to .950" Hub Size Range 1/2" to 1"











Cat.	Cable Size Range	Hub	Throat Dia.			ension		Bushing Part	Gland-Nut Model	Retainer Model	Body Model
No.	minmax.	Size	(min.)	Fig.	Α	В	C	No.	No.	No.	No.
2516†	(.060125)	1/4"	23/64"	2	33/64	1 7/16	15/32	035-73377-5	035-73377-3	035-73377-9	035-73377-1
2517†	(.120250)	1/4"	23/64"	2	13/64	1 1/16	15/32	035-73377-6	035-73377-3	035-73377-9	035-73377-1
2518†	(.060150)	3/8"	29/64"	2	31/32	11/2	15/32	035-73377-7	035-73377-4	035-73377-9	035-73377-2
2519†	(.150300)	3/8"	29/64"	2	31/32	11/2	15/32	035-73377-8	035-73377-4	035-73377-9	035-73377-2
2520	(.125250)	1/2"	9/16"	1		121/32	5/8	053-71411-1	053-71411-37	035-72735-1	053-71411-43
2521	(.250375)	1/2"	9/16"	1	11/8	121/32	5/8	053-71411-2	053-71411-37	035-72735-1	053-71411-43
2522	(.375500)	1/2"	9/16"	1	11/8	121/32	5/8	053-71411-3	053-71411-37	035-72735-2	053-71411-43
2523	(.450560)	1/2"	9/16"	1	11/8	121/32	5/8	053-71411-4	053-71411-37	035-72735-2	053-71411-43
2524*	(.500625)	1/2"	5/8"	1	1%	13/4	5/8	053-71411-59	053-71411-38	035-72735-3	033-72259-21
2525*	(.625750)	1/2"	5/8"	1	1%	13/4	5/8	053-71411-60	053-71411-38	035-72735-3	033-72259-21
2530	(.125250)	3/4"	13/16"	1	1%	13/4	9/16	033-72259-1	053-71411-38	035-72735-4	053-71411-44
2531	(.250375)	3/4"	13/16"	1	1%	13/4	9/16	053-71411-5	053-71411-38	035-72735-4	053-71411-44
2532	(.375500)	3/4"	13/16"	1	1%	13/4	9/16	053-71411-58	053-71411-38	035-72735-4	053-71411-44
2534	(.500625)	3/4"	13/16"	1	1%	13/4	9/16	053-71411-59	053-71411-38	035-72735-3	053-71411-44
2535	(.625750)	3/4"	13/16"	1	1%	13/4	9/16	053-71411-60	053-71411-38	035-72735-3	053-71411-44
2536*	(.750880)	3/4"	3/4"	1	1%	115/16	5/8	053-71411-61	053-71411-39	035-72735-5	033-72259-22
2541	(.250375)	1"	49/64"	1	111/16	123/32	9/16	053-71411-5	053-71411-38	035-72735-4	053-71411-45
2542	(.375500)	1"	49/64"	1	111/16	123/32	9/16	053-71411-58	053-71411-38	035-72735-4	053-71411-45
2544	(.500625)	1"	49/64"	1	111/16	123/32	9/16	053-71411-59	053-71411-38	035-72735-3	053-71411-45
2545	(.625750)	1"	49/64"	1	111/16	123/32	9/16	053-71411-60	053-71411-38	035-72735-3	053-71411-45
2546	(.750880)	1"	63/64"	1	111/16	1%	9/16	053-71411-61	053-71411-39	035-72735-5	053-71411-46
2547	(.875985)	1"	63/64"	1	111/16	1%	9/16	053-71411-62	053-71411-39	035-72735-5	053-71411-46
2548*	(.880-1.065)	1"	29/32"	1	21/16	23/8	25/32	053-71411-63	053-71411-40	035-72735-6	033-72259-23
2549*	(1.065-1.205)	1"	29/32"	1	21/16	23/8	25/32	053-71411-64	053-71411-40	035-72735-6	033-72259-23
2558	(.880-1.065)	11/4"	117/64"	1	21/8	25/32	5/8	053-71411-63	053-71411-40	035-72735-6	053-71411-47
2559	(1.065-1.205)	11/4"	11764"	1	21/16	25/32	5/8	053-71411-64	053-71411-40	035-72735-6	053-71411-47
2556*	(1.187-1.375)	11/4"	11/4"	1	25/16	21/2	¹³ / ₁₆	053-71411-18	053-71411-41	035-72735-7	033-72259-24
2557*	(1.375-1.485)	11/4"	11/4"	1	25/16	21/2	13/16	033-72259-2	053-71411-41	035-72735-7	033-72259-24
2562	(.812-1.000)	11/2"	1 7/16"	1	25/16	21/2	13/16	033-72259-3	053-71411-41	035-72735-7	053-71411-48
2563	(1.000-1.187)	1½"	1 7/16"	1	25/16	2 1/16	11/16	053-71411-17	053-71411-41	035-72735-7	053-71411-48
2564	(1.187-1.375)	1½"	1 7/16"	1	21/4	2 1/16	11/16	053-71411-18	053-71411-41	035-72735-7	053-71411-48
2565*	(1.375-1.625)	1½"	12%4"	1	23/4	2%	13/16	053-71411-65	053-71411-42	035-72735-8	033-72259-25
2573	(1.125-1.375)	2"	1%"	1	23/4	25/8	13/16	053-71411-66	053-71411-42	035-72735-8	053-71411-49
2574	(1.375-1.625)	2"	1%"	1	2¾	2%	13/16	053-71411-65	053-71411-42	035-72735-8	053-71411-49
2575	(1.625-1.875)	2"	1%"	1	23/4	3½	13/16	053-71411-67	053-71411-42	035-72735-8	053-71411-49
2576*	(1.750-1.965)	2"	129/32"	1	31/32	3½	13/16	033-72259-5	033-72259-17	035-72735-9	033-72259-26
2577*	(1.937-2.187)	2"	129/32"	1	31/32	3½	13/16	033-72259-6	033-72259-17	035-72735-9	033-72259-26
2584	(1.750-1.965)	21/2"	2"	1	31/32	3¾	11/32	033-72259-5	033-72259-17	035-72259-14	033-72259-27
2585	(1.937-2.187)	2½"	2"	1	37/32	3¾	11/32	033-72259-6	033-72259-18	033-72259-14	033-72259-27
2586*	(2.156-2.360)	2½"	25/32"	1	315/16	41/4	11/32	033-72259-7	033-72259-19	033-72259-15	033-72259-28
2587*	(2.350-2.565)	2½"	25/32"	1	315/16	41/4	11/32	033-72259-8	033-72259-19	033-72259-15	033-72259-28
2592	(2.156-2.360)	3"	213/32"	1	315/16	41/4	11/32	033-72259-7	033-72259-19	033-72259-15	033-72259-29
2593	(2.350-2.565)	3"	213/32"	1	315/16	41/4	11/32	033-72259-8	033-72259-19	033-72259-15	033-72259-29
2594	(2.535-2.750)	3"	213/32"	1	315/16	41/4	11/32	033-72259-9	033-72259-19	033-72259-15	033-72259-29
2595*	(2.735-2.985)	3"	213/16"	1	411/16	413/16	11/8	033-72259-10	033-72259-20	033-72259-16	033-72259-30

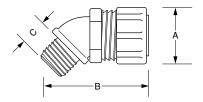
For wire mesh grips refer to pages A119, A154.

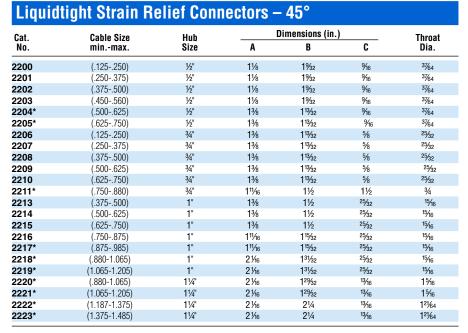


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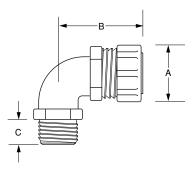
Flexible Cords and Cable Fittings











For wire mesh grips refer to pages A119, A154.

Cat.	Cable Size	Hub		Dimensions (in.)	Throat
No.	minmax.	Size	A	В	C	Dia.
2267	(.125250)	1/2"	11/8	123/32	5%	19/32
2268	(.250375)	1/2"	11/8	123/32	5/8	19/32
2269	(.375500)	1/2"	11/8	123/32	5/8	19/32
2270	(.450560)	1/2"	11/8	123/32	5/8	19/32
250*	(.500625)	1/2"	1%	111/16	9/16	39/64
251*	(.625750)	1/2"	1%	111/16	9/16	39/64
252	(.125250)	3/4"	1%	1¾	1/2	25/32
271	(.250375)	3/4"	1%	1%	1/2	25/32
272	(.375500)	3/4"	1%	1%	1/2	25/32
273	(.500625)	3/4"	1%	1%	1/2	25/32
274*	(.620750)	3/4"	1%	1%	1/2	25/32
253*	(.750880)	3/4"	111/16	131/32	9/16	25/32
254	(.375500)	1"	1%	2	25/32	1
255	(.500625)	1"	1%	2	25/32	1
256*	(.625750)	1"	1%	2	25/32	1
275	(.750875)	1"	1 ¹¹ ⁄ ₁₆	2	5/8	1
276	(.875985)	1"	111/16	2	5/8	1
257*	(.880-1.065)	1"	21/16	221/32	25/32	15/16
258*	(1.065-1.205)	1"	21/16	221/32	25/32	15/16
277	(.880-1.065)	11/4"	21/16	21/8	11/16	15/16
278	(1.065-1.205)	11⁄4"	21/16	2%	11/16	15/16
279*	(1.187-1.375)	11/4"	25/16	213/16	13/16	111/32
280*	(1.375-1.485)	11⁄4"	25/16	213/16	13/16	111/32
281	(.812-1.000)	1½"	25/16	21/8	13/16	115/32
282	(1.000-1.187)	1½"	25/16	2%	13/16	115/32
283*	(1.187-1.375)	1½"	25/16	21/8	13/16	115/32
284	(1.125-1.375)	2"	225/32	31/4	27/32	131/32
285	(1.375-1.625)	2"	225/32	31/4	27/32	131/32
2286	(1.625-1.875)	2"	225/32	31/4	27/32	131/32

^{*} Remove sufficient outer covering of cable to permit conductors to pass thru connector body.

Complies with JIC standards.

CSA File No. 589 & 4484



[†] U.L. not applicable.

U.L. Listed as liquidtight strain relief, and outlet bushing. CSA certified watertight.

Temperature rating 105°C.

Suitable for hazardous locations use where general purpose equipment is specifically permitted per NEC Section 501-4(b).

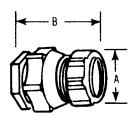
U.L. File No. E 13938

Flexible Cords and Cable Fittings









CHASE® Liquidtight Cord Connectors										
Cat.	Cable Size Range	Throat		Dimens	ions (in.)					
No.	Size (in.)	Dia.	Cord Range	В	C					
2631	(.125250)	1/2"	9/16"	11/16	1%					
2632	(.250375)	1/2"	9/16"	1 1/16	15/8					
2633	(.375500)	1/2"	9/16"	1 1/16	15/8					
2634	(.450560)	1/2"	%6"	1 1/16	1%					
2637	(.125250)	3/4"	25/32"	15/16	1¾					
2638	(.250375)	3/4"	25/32"	15/16	13/4					
2639	(.375500)	3/4"	25/32"	15/16	1¾					
2640	(.500625)	3/4"	25/32"	15/16	13/4					
2641	(.625750)	3/4"	25/32"	1 5⁄16	1¾					
2644	(.250375)	1"	1"	15/8	113/16					
2645	(.375500)	1"	1"	1%	1 ¹³ ⁄ ₁₆					
2646	(.500625)	1"	1"	1%	1 13/16					
2647	(.625750)	1"	1"	1%	1 13/ ₁₆					
2648	(.750880)	1"	1"	1%	1 13/16					
2649	(.885985)	1"	1"	1%	113/16					

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 Surlable for hazardous rocations use in class i, blv. 2, class ii, blv. 1 and 2, class specifically permitted per NEC Section 500-2(a).

Complete with "0" Ring seal and nylon insulated throat, and neoprene bushing.

U.L. Listed as liquiditight strain relief, and outlet bushing. CSA certified watertight. Temperature Rating; 105°C.

U.L. File No. E 13938

CSA File No. 589
CHASE® Liquidtight Cord Connectors are ideal for installation where space is limited

inside the enclosure.

Multi-Hole Flexible Cord and Cable Connectors								
Cat. No.	Hub Size, In.	Dia. No.	Cord Dia.					
2520-2	1/2"	2	.220					
2530-2	3/4"	2	.220					
2531-2	3/4"	2	.260					
2531-3	1"	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	11⁄4"	2	.500					

Note: Range of cord dia. ± .010.

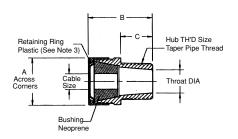
In many applications you have only room for one fitting but you need to run two cables, for example, proximity switches. Now you can provide strain relief and liquidtight protection with T&B's new multi-hole liquidtight strain relief connectors. With the ever increasing number of signal cables, now you have a solution to the problem of how to strain relieve multiple cables in one fitting.



Flexible Cords and Cable Fittings







Watertigh	t Strain	Relief	Connectors	(Straight)

	Hub THD Size	• • •	0.		_			Marking	Throat
Cat. No.	(Taper THD)	Min.	Max.	A	B Max.	C	on Bushing	Bushing Part. No.	Dia. (Min.)
2558AL	11⁄4	.880	1.065	23/32	25/32	13/16	.880-1.065	053-71411-63	117/64
2559AL	11/4	1.065	1.205	23/32	25/32	¹³ / ₁₆	1.065-1.205	053-71411-64	117/64
2556AL	11/4	1.187	1.375	211/32	21/2	13/16	2564	053-71411-18	11/4
2557AL	11⁄4	1.375	1.485	211/32	21/2	13/16	None	033-72259-2	11/4
2562AL	1½	.812	1.000	211/32	21/2	11/16	None	033-72259-3	1 7/16
2563AL	1½	1.000	1.187	211/32	2 ⅓6	11/16	2563	053-71411-17	1 ⅓6
2564AL	1½	1.187	1.375	211/32	2 ⅓6	11/16	2564	053-71411-18	1 7/16
2565AL	1½	1.375	1.625	213/16	25/8	13/16	1.375-1.625	053-71411-65	12964
2573AL	2	1.125	1.375	213/16	2%	13/16	1.125-1.375	053-71411-66	1%
2574AL	2	1.375	1.625	213/16	25/8	11/16	1.375-1.625	053-71411-65	1%
2575AL	2	1.625	1.875	213/16	25/8	11/16	1.625-1.875	053-71411-67	1%
2576AL	2	1.750	1.965	31/32	31/2	27/32	10412	033-72259-5	129/32
2577AL	2	1.937	2.187	31/32	3½	27/32	10413	033-72259-6	129/32
2584AL	21/2	1.750	1.965	31/32	3¾	11/32	10412	033-72259-5	2
2585AL	21/2	1.937	2.187	31/32	3¾	11/32	10413	033-72259-6	2
2586AL	21/2	2.156	2.360	315/16	41/4	11/32	10414	033-72259-7	25/32
2587AL	21/2	2.350	2.565	315/16	41/4	11/32	10415	033-72259-8	25/32
2592AL	3	2.156	2.360	315/16	41/4	11/32	10414	033-72259-7	213/32
2593AL	3	2.350	2.565	315/16	41/4	11/32	10415	033-72259-8	213/32
2594AL	3	2.535	2.750	315/16	41/4	11/32	10416	033-72259-9	213/32
2595AL	3	2.735	2.985	411/16	413/16	11/8	None	033-72259-10	213/16
2596AL	3	2.990	3.220	411/16	413/16	11/8	None	033-72259-11	213/16

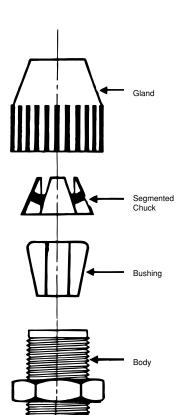
Notes:

- 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. No.'s 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.



Flexible Cords and Cable Fittings – Non-Metallic





2672 Series

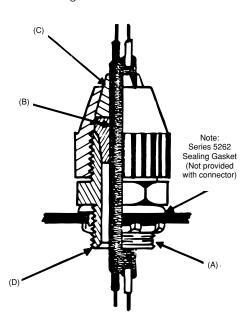
Liquidtight Flexible Cord Connectors – Black Beauty™ Series

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.



Typical Installation

Listed/Certified by:

U.L. File No. E-23018) CSALR-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

diameterType S, SO, SV, ST, STO, SJ, SJO, SJT, SJTO,

SVTO, SVO, SVT Flexible Cords & Cables

Conforms to:

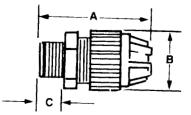
U.L. 514B CSA C22.2 No. 18 NFPA 70-1999 (ANSI) Federal Standard H-28 (Threads)



Flexible Cords and Cable Fittings – Non-Metallic







- Weather Stabilized Nylon.
- U.L. 94-V2.
- Temperature Rating: -34°C to +105°C.
 Meets Coast Guard CG293.

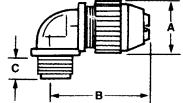
Nonmetallic Liquidtight Strain Relief Connector – straight

Cat.	Trade or	Throat		İ	Dimensions (in	.)
No.	Hub Size	Diam. (in.)	Cord Range (in.)	A	В	С
2671	3/8"	0.33	.125275	2.0	.90	.46
2690	1/2"	0.33	.125275	2.3	.90	.60
2672	1/2"	0.55	.250400	2.6	1.27	.60
2673*	1/2"	0.55	.400560	2.6	1.27	.60
2691*	1/2"	0.54	.660780	3.0	1.57	.60
2692*	1/2"	0.54	.660780	3.0	1.57	.60
2693	3/4"	0.55	.250400	2.7	1.27	.62
2694*	3/4"	0.55	.400560	2.7	1.27	.62
2674	3/4"	0.79	.560690	3.0	1.57	.62
2675	3/4"	0.79	.660780	3.0	1.57	.62
2696*	3/4"	0.76	.770895	3.2	1.89	.62
2676	1"	0.98	.660780	3.3	1.89	.77
2677	1"	0.98	.770895	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	11/4"	1.25	.890-1.090	4.2	2.58	.80
2703	11/4"	1.25	1.080-1.280	4.0	2.58	.80
2704	11/4"	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.

U.L. File No. E 13938

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, standard size body.

- Weather Stabilized Nylon.
 U.L. 94-V2.
 Temperature Rating: -34°C to +105°C.
- Meets Coast Guard CG293.

Nonmetallic Liquidtight Strain Relief Connector - 90° elbow

Cat.	Trade or	Throat			Dimensions (in	.)
No.	Hub Size	Diam. (in.)	Cord Range (in.)	Α	В	C
2680	3/8"	.33	.125275	29/32	1¾	.460
2681	1/2"	.55	.250400			
2682*	1/2"	.55	.400560			
2683	3/4"	.78	.560690			
2684	3/4"	.78	.660780			
2688	1"	.98	.560690	127/32	31⁄4	.770
2685	1"	.98	.660780	127/32	31⁄4	.770
2686	1"	.98	.770895	127/32	3¾6	.770
2687*	1"	.98	.870-1.020	127/32	3	.770

^{*} Remove sufficient outer covering of cable to permit conductors to pass thru connector body. 90° angle, standard size body. U.L. File No. E 13938

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).



Wiremesh Grips



Wiremesh grips support the following Liquidtight Cord Fittings Series.





2920 Series

2920AL Series



2516 Series

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.

Features

pullouts

Materials

Range

.187 - 3.220

• Prevents severe cord bends and

Wiremesh made of stainless steel.

Retaining rings made of aluminum.

Environment Classification

Ordinary Locations

Used in aluminum and/or steel fittings

Application

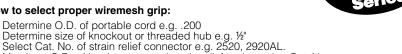
- Provides high gripping strength for adequate cable support and strain relief without damage to the cable sheath
- Compression of a tapered neoprene bushing, assures the watertight integrity of the fittings
- To meet National Electric Code or NEC requirements for electrical installations in hazardous 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

How to select proper wiremesh grip:

- Match up O.D. with grip range and strain relief to determine Cat. No. of Wiremesh Grip (e.g. .200 + 2520 = WMP-PC1)









Wiremesh Grips for Portable Cord

					Strain Relief	Connecto	r		
			Straight		45	•		90°	
Cat. No.	Grip Range	Ranger™ Steel	Ranger™ Aluminum	T&B Steel	Ranger™ Steel	T&B Steel	Ranger™ Steel	Ranger™ Aluminum	T&B Steel
WMG-PC1	.187250	2920	2920AL	2520	4920	2200	4960	4960AL	2267
WMG-PC2	.250375	2920	2920AL	2521	4920	2201	4960	4960AL	2268
WMG-PC3	.375500	2921	2921AL	2522	4921	2202	4961	4961AL	2269
WMG-PC4	.500625	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	.625750	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	.187250	2930	2930AL	2530	4930	2206	4970	4970AL	2252
WMG-PC7	.250375	2930	2930AL	2531 2541	4930	2207	4970	4970AL	2271
WMG-PC8	.375500	2931 2940	2931AL 2940AL	2532 2542	4931 4940	2208 2213	4961 4980	4961AL 4980AL	2272 2254
WMG-PC9	.750875	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			2256 2564		2222 —			2279 2283
WMG-PC16*	1.375-1.500			2557		2223			2280
WMG-PC17*	1.125-1.250			2573		-			2284

		Strain Relief	Connector
		Straight	90°
Cat. No.	Grip Range	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	
*D	NI LO DE LIMER		

*Replacement Gland Nut Supplied With These Cat alog Numbers Only



Non-Metallic Cable Glands

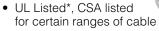
Low profile cable gland perfect for tight spots

T&B Nylon Cable Glands have a sturdy cable sealing mechanism which 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.



• Flame Retardant UL 94V0

 Rated IP 68 5 BAR, suitable for NEMA 4 enclosures





Meets VDE ratings







Catalog No.	Thread		Cord F	Range	Length	of Thread	Use T&B	Unit	Std.
Fittings	Size	Color	ln.	MM	ln.	MM	Locknut Cat. No.	Pkg.	Pkg.
NPT Threads									
CC-NPT38-B	3/8"	BLACK	.197394	5-10mm	.590	15mm	-	50	250
CC-NPT38-G	3/8"	GRAY	.197394	5-10mm	.590	15mm	-	50	250
CC-NPT12-B	1/2"	BLACK	.394551	10-14mm	.590	15mm	LN501	50	250
CC-NPT12-G	1/2"	GRAY	.394551	10-14mm	.590	15mm	LN501	50	250
CC-NPT34-B	3/4"	BLACK	.512709	13-18mm	.590	15mm	LN502	25	100
CC-NPT34-G	3/4"	GRAY	.512709	13-18mm	.590	15mm	LN502	25	100
CC-NPT1-B	1"	BLACK	.709984	18-25mm	.709	18mm	LN503	20	100
CC-NPT1-G	1"	GRAY	.709984	18-25mm	.709	18mm	LN503	20	100
CC-ISO16-G CC-ISO20-G	16 20	GRAY GRAY	.197394 .236473	5-10mm 6-12mm	.394 .590	10mm 15mm	LN-ISO16-G LN-ISO20-G	50 50	200 200
CC-ISO25-G	25	GRAY	.512709	13-18mm	.590	15mm	LN-ISO25-G	25	100
CC-ISO32-G	32	GRAY	.709984	18-25mm	.590	15mm	LN-ISO32-G	20	100
PG Threads									
CC-PG7-G	7	GRAY	.118256	3-6.5mm	.315	8mm	LN-PG7-G	50	200
CC-PG9-G	9	GRAY	.157315	4-8mm	.315	8mm	LN-PG9-G	50	200
C-PG11-G	11	GRAY	.197394	5-10mm	.315	8mm	LN-PG11-G	25	100
C-PG135-G	131/2	GRAY	.236473	6-12mm	.354	9mm	LN-PG135-G	25	100
C-PG16-G	16	GRAY	.394551	10-14mm	.394	10mm	LN-PG16-G	25	100
CC-PG21-G	21	GRAY	.512709	13-18mm	.433	11mm	LN-PG21-G	10	50
CC-PG29-G	29	GRAY	.709984	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.



Service Entrance Cable Fittings



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)



Series 1490 Entrance ELL



Series 3870
Bonding & Grounding Bushing – Insulated



Series 106 Bonding Locknut

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.
- 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.
- 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.
- 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.



Service Entrance Cable Fittings



Series 2111 Service Entrance Cable Connector



Series 2116
Underground Feeder Cable Connector



Series 3302M
Two Screw Connector (Insulated)



Series 5262, 5302 Sealing Gasket



Series 1341 Cable Strap

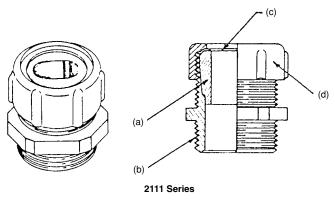
Suggested Specifications for Service Entrance Fittings – (Continued)

- 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 assure rain tight conditions.
- Terminating fittings for service entrance cable (Type SE or USE) or underground feeder and branch - circuit cable (Type UF) in locations where exposed to intermittent or constant moisture or in dry locations and subjected to mechanical strain shall be of watertight strain relief type as manufactured by 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.
- •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.
- 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.
- At the point where the service cable enters the building a suitable sill plate shall be provided; sill/wall plate shall be sealed to assure rain tight conditions.

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.

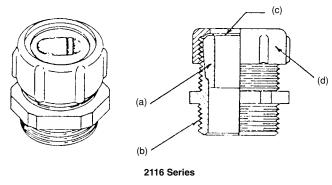
Listed by:

U.L. (U.L. File No. E15170) CSA (LR589, LR4484)

Conforms to:

UL514, NEMA FB1, Federal Standard H-28 (Threads), NFPA70-1999 (ANSI)

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... $\frac{1}{2}$ " thru 1" NPT (tapered pipe threads)

Feature:

- 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:

U.L.

CSA (LR2884)

Conforms to:

UL514B, NEMA FB1, Federal Standard H-28 (Threads), NFPA70-1999 (ANSI)



Service Entrance Cable Fittings





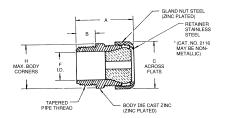


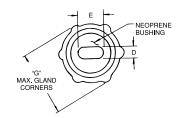
Oil and water resistant neoprene bushing is especially designed for sealing around underground feeder cable. Stainless steel retaining ring provides a bearing surface for the glandnut and eliminates cable twist. Ribbed glandnut is strong and easily tightened with a wrench to make a connection of high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

Underground Liquidtight Feeder Cable Fittings

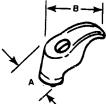
				Dimensions (in.)								
Cat.	Hub	Cable	Α	В	C	I	D	E		F	G	Н
No.	Size	Opening				min.	max.	min.	max			
2116-TB*	1/2"	.235 x .500	111/16	5/8	1	.060	.235	.350	.500	9/16	11/8	11/8
2237	3/4"	.230 x .430	1 %	9/16	13/32	.080	.230	.320	.430	13/16	1%	1%
2238	3/4"	.235 x .465	1 %	9/16	17⁄32	.050	.235	.340	.465	13/16	1%	1%
2239	3/4"	.240 x .685	1%	9/16	13/32	.060	.240	.500	.685	13/16	1%	1%

* Not CSA Certified. U.L. File No. E-23017 CSA File No. 2884









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

Cable Str	aps		
Cat.		Dimens	sions (in.)
No.	Wire Size	A	В
1341-TB	2-#10	5/8	11/8
1344	3-#6 or 3-#8	5/8	1 ¹⁵ ⁄16
1345*	3-#4 or 3-#2	¹³ / ₁₆	15%4
1346	3-1/0	3/4	2 1/16
1347	3-4/0	3/4	2 ²⁵ / ₃₂

* Steel, hot dipped galvanized. U.L. not applicable. CSA Certified.

Service Entrance Cable Fittings





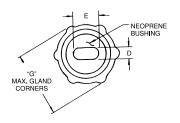


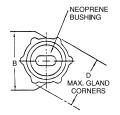
A design with two tapers inside the body – a slow one and a fast one – permits the stocking of fewer connectors for varied cable sizes and allows maximum take-up. The tapered neoprene bushings are resistant to oil, sunlight, and water. Hex gland and body take the same wrench opening and a stainless steel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

Wat	ertight	Conne	ctors	for Ov	ıal Ca	ble		
Cat.	Hub		Din	nensions (in.)		Oval Cab	le Range
No.	Size	A	В	C	D	E	max.	min.
2111	1/2"	1¾	11⁄4	5/8	1%	1%	.420 x .560	.380 x .520
2232	3/4"						.385 x .600	.260 x .500
2233	3/4"					1%	.500 x .750	.375 x .625
2234	3/4"	4117	41/	0/	497		.555 x .800	.490 x .675
2432	1"	111/16	11/4	9/16	1%		.385 x .600	.260 x .500
2433	1"					1¾	.500 x .750	.375 x .625
2434	1"						.555 x .800	.430 x .675
2438	1"	1¾	1½	25/32	111/16	1¾	.565 x .855	.440 x .730
2439	1"						.635 x .975	.510 x .850
2442	11/4"						.635 x .975	.510 x .850
2443	11/4"	21/16	115/16	5/8	21/16	21/8	.640 x 1.050	.490 x .900
2446	11/4"						.750 x 1.150	.565 x .965
2454	1½"	21/4	21/8		25/16	25/16	.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"	2%	25/8		23/4	213/32	1.062 x 1.765	.850 x 1.550
2450	2"						1 820 x 1 190	1 700 x 1 050

U.L. File No. E-15170 CSA File No. 589

Note/Reminder: These may be obsoleted and replaced.









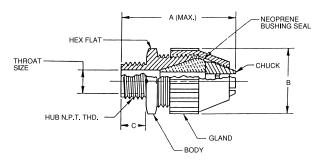


- Tapered threaded hub.
- Liquidtight and Dust tight; hand tightens no tools required.
- Corrosive and weather resistant nylon for outdoor and indoor applications.

Nylon UF Cable Fittings for Corrosive Environments

Cat.	Hub	UF Cable	Range	A	В	C
No.	Size	max.	min.	max.	± .060	± .060
2827	1/2"	.550 x .280	.400 x .190	2.60	1.270	.600
2828	3/4"	.675 x .280	.525 x .190	3.00	1.570	.620
2829	3/4"	.775 x .280	.625 x .190	3.00	1.570	.620

U.L. File No. 15170 CSA File No. 589





Armored Cable and Flexible Metal Conduit Fittings

Armored Cable and Flexible Metal Conduit

Armored Cable (Type AC) – Ref. NEC Article 333

National Electric 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 indicates that a lead covering has been applied over the conductor assembly. All above 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 333-9 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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- 1. NEC Article 333...Armored Cable (Type AC Cable)
- U.L. 4, ANSI C33.9...Safety Standards for Armored Cable
- 3. U.L. 514B, Safety Standards for Outlet Boxes and Fittings
- W-F-406...Federal Specification. Fittings for Cable, Power, Electrical and Conduit, Metal, Flexible
- 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
- CSA C22.2 No. 18...Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

Please Note

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



Armored Cable and Flexible Metal Conduit Fittings

Armored Cable and Flexible Metal Conduit - continued

Flexible Metal Conduit - Ref. NEC Article 350

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 250-79(e). Flexible metal conduit is available with steel or aluminum armor in trade size %6" to 4". With few exceptions where %6" and %" trade sizes are used, Code prohibits use of conduit less than ½" 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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- NEC Article 350...Flexible Metal Conduit
- U.L. 1, ANSI C33.92...Safety Standards for Flexible Metal Conduit
- 3. U.L. 514B, Safety Standards for Outlet Boxes and Fittings
- W-F-406...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)
- CSA C22.2 No. 56...Safety
 Standards for Flexible Metallic
 Conduit and Liquid-Tight Flexible
 Metal Conduit
- CSA C22.2 No. 18...Safety Standards for Outlet Boxes, Conduit Boxes and Fittings



Armored Cable and Flexible Metal Conduit Fittings



Series 3110 Armored Cable Connector & Flexible Metal Conduit



Series 422
Insuliner® Sleeve

Series 390 Anti Short Bushing

Suggested Specifications for Armored Cable and Flexible Metal Conduit Fittings

 Armored cable (metal clad cable type AC) and flexible metal conduit shall conform to provisions of following applicable standards:

Armored Cable...U.L. 4/ANSI C33.9/CSA 22.2 No. 51

Flexible Metal Conduit...U.L. 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 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.

 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.



Armored Cable and Flexible Metal Conduit Fittings



3110 Series

Armored Cable & Flexible Metal Conduit Connectors

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.

- Rugged all steel or malleable iron construction.
- Suitable as a grounding means per N.E.C. Article 350-5 (thru 3" trade size only).
- Suitable for hazardous location use per Class 1 Division 2 N.E.C. 501-4 (b).

Standard Material/Finish

Body......Steel or malleable iron/
Electro Zinc Plated &
Chromate Coated
Saddle.....Steel/Electro Zinc Plated
& Chromate Coated
ScrewsSteel/Electro Zinc Plated &
Chromate Coated
Insulator.....Thermoplastic/As Molded

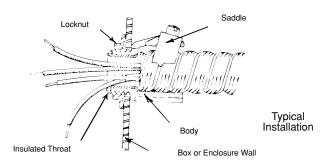
Conforms to:

U.L. 514B CSA C22.2 No. 18 NEMA FB1

Listed/Certified by:

U.L. (U.L. File No. 23018) CSA (LR-2884, LR-4484)

Range	Hub Size	Conduit Size	Cable Opening
3110 Series Straight Connectors	1⁄4" thru 5" NPS	3⁄8" thru 5"	.437" to 5.500"
3130 Series 90° Connectors	1⁄4" thru 4" NPS	3⁄8" thru 4"	.437" to 4.560"
	(All hubs provided with		
	straight pipe threads NPS.)		

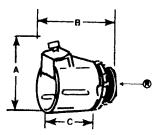




Armored Cable and Flexible Metal Conduit Fittings







Steel or malleable iron.
The tough lining of insulation and the Tite-Bite® principles make these connectors a "must" when conductors are subject to conditions of without or state. vibration or strain.

TITE-BITE® Connectors* - Nylon Insulated

Cat.	Cab Open		Trade	К.О.	Dir	mensions (ir	1.)
No.	max.	min.	Size	Size	A [†]	В	C
3110**	.656	.437	3/8"	1/2"	11⁄4	11/8	7/8
3112	.937	.750	1/2"	1/2"	11/4	11/8	7/8
3115	1.125	.906	3/4"	3/4"	125/32	1¾	17/32
3117	1.468	1.250	1"	1"	23/8	13/4	11/8
3118***	1.750	1.562	11⁄4"	11/4"	2¾	2	11/4
3119***	2.031	1.812	1½"	11/2"	31/8	25/8	1¾
3120***	2.500	2.312	2"	2"	3¾	2¾	113/16
3121***	3.062	2.812	2½"	2½"	43/8	31/4	21/4
3122***	3.562	3.312	3"	3"	5	31/4	21/4
3123****	4.060	3.620	3½"	3½"	-	-	-
3124***	4.560	4.120	4"	4"	-	-	-
3125***	5.500	4.600	5"	5"	-	-	-

^{*} U.L. Listed as a grounding means under NEC 350-5.

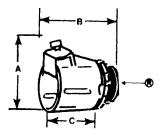
Material: Steel thru 3/4" trade size.

† Approximate dimension with screw at minimum height.

U.L. File No. E 23018 CSA File No. 2884 ** CSA not applicable.







Steel or malleable iron. Steel or maileable from.

Easy to install with double grip saddle. These connectors are completely salvageable. The %" and %" sizes are made of formed steel which produce a uniform high quality and a smooth throat that protects conductor insulation. %" and larger size are malleable iron. and larger size are malleable iron.

TITE-BITE® Connectors*

Cat.	Cable Opening		Trade	K.O.	Dimensions (in.)			
No.	max.	min.	Size	Size	A †	В	C	
300TB**	.656	.437	3/8"	1/2"	11/4	15/16	7/16	
302	.937	.750	1/2"	1/2"	1%	111/16	1%4	
304	1.093	.906	3/4"	3/4"	1%	1 ¹ 1/ ₁₆	17/32	
306	1.468	1.250	1"	1"	21/16	1¾	11/8	
308***	1.750	1.562	11/4"	11/4"	25/16	21/32	11/4	
310***	2.031	1.812	1½"	1½"	25/8	2%	13/4	
312***	2.500	2.312	2"	2"	31/8	213/16	113/16	
314***	3.062	2.812	2½"	2½"	3½	31/8	21/4	
316***	3.562	3.312	3"	3"	41/16	3¾6	21/4	

^{*} U.L. Listed as a grounding means under NEC 350-5.

CSA File No. 2884

Material: Steel thru 3/4" trade size.



^{**} U.L. Listed for armored cable only.

*** U.L. Listed for flexible metal conduit only.

^{***} Not U.L. Listed or CSA Certified.

^{**} U.L. Listed for armored cable only.

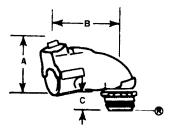
*** U.L. Listed for flexible metal conduit only.

 $^{^{\}dagger}$ Approximate dimension with screw at minimum height. U.L. File No. E 23018

Armored Cable and Flexible Metal Conduit Fittings







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

TITE-BITE® Connectors* - 90° angle nylon insulated

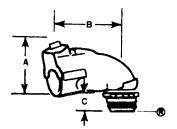
Cat.	Cab Opei		Trade	К.О.	Dir	nensions (in	.)	
No.	max.	min.	Size	Size	A †	В	С	
3130*	.656	.437	3/8"	1/2"	111/32	119/32	15/16	
3132*	.937	.750	1/2"	1/2"	1%	25/16	15/16	
3135*	1.093	.906	3/4"	3/4"	21/8	21/8	9/16	
3137	1.468	1.250	1"	1"	221/32	21/8	1/2	
3138***	1.750	1.562	11⁄4"	11⁄4"	35/16	33/32	9/16	
3139***	2.031	1.812	1½"	1½"	4	41/8	11/16	
3140***	2.500	2.312	2"	2"	415/16	5 ½16	11/16	
3141***	3.062	2.812	21/2"	21/2"	6%2	6	3/4	
3142***	3.562	3.312	3"	3"	711/32	71/16	3/4	
3143***	4.060	3.620	31/2"	3½"	_	-	-	
3144***	4.560	4.120	4"	4"	-	-	-	

^{*} U.L. Listed as a grounding means under NEC 350-5.

U.L. File No. E 23018 CSA File No. 2884







The angle clip gives secure mechanical grip that tightens under tension or vibration. Throat is long enough to install in cast housing knockouts. The 3/8" and 1/2" sizes are of steel construction. The 3/4" and larger sizes are malleable iron.

TITE-BITE® Connectors* - 90° angle

Cat.	Cable Opening		Trade K.O.	к.о.	Dimensions (in.)			
No.	max.	min.	Size	Size	Α [†]	В	С	
321	.656	.437	3/8"	1/2"	111/32	1½	3/8	
323	.937	.750	1/2"	1/2"	1%	2%	17/32	
325	1.093	.906	3/4"	3/4"	21/8	21/8	3/4	
326TB	1.468	1.250	1"	1"	221/32	21/8	1	
327***	1.750	1.562	11⁄4"	11/4"	31/8	3%	-	
328***	2.031	1.812	11/2"	11/2"	41/8	41/8	-	
329***	2.500	2.312	2"	2"	4%	431/32	-	
330***	3.062	2.812	21/2"	21/2"	61/2	6	-	
331***	3.562	3.312	3"	3"	525/32	7	-	

^{*} U.L. Listed as a grounding means under NEC 350-5.

*** U.L. Listed for flexible metal conduit only.

CSA File No. 2884







- Unique saddle design firmly secures cable in place, provides holding power in excess of listing agency requirements, and assures high quality bonding.
- Removable bushing design covers wide range, reduces inventories.
- Can be used on smooth or corrugated aluminum sheathed and steel MC cable.
- One screw provides quick installation.

TITE-BITE® Aluminum Sheathed Cable Connectors

Cat. No.	Dia. Range Alum. Sheath (in.)	Hub Size	
2492	(.370500)	1/2"	

U.L. Listed as a grounding means for steel MC cable and ALS. For dry location.

Tite-Bite® Connectors are approved for continous sheathed corrugated MC cable.



^{***} U.L. Listed for flexible metal conduit only.

[†] Approximate dimension with screw at minimum height.

^{***} Not U.L. Listed or CSA Certified.

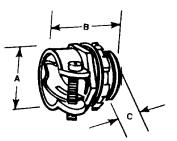
[†] Approximate dimension with screw at minimum height.

U.L. File No. E 23018

Armored Cable and Flexible Metal Conduit Fittings







T&B squeeze connectors will fit every size of armored cable, leaded cable and flexible conduit. Malleable iron or steel construction. Part No. 253 is steel.

Squeeze Connectors*

Cat. No.	Cable Opening		Trade K.	K.O.	K.O. Dimensions (in.)		
	max.	min.	Size	Size	A †	В	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"	17⁄32	1%	13/32
255	1.094	.938	3/4"	3/4"	11/4	117/32	7/16
256	1.375	1.250	1"	1"	119/32	1%	1/2
257***	1.656	1.500	11/4"	11/4"	1%	123/32	17/32
258***	1.875	1.688	1½"	1½"	21/4	1 7/16	9/16
259***	2.500	2.313	2"	2"	231/32	25/8	11/16
249***	3.062	2.812	21/2"	21/2"	35/16	211/16	3/4
277***	3.563	3.312	3"	3"	313/16	27/8	3/4

- * U.L. Listed as a grounding means under NEC 350-5.
- *** U.L. Listed for armored cable only. Fitting material steel.

 *** U.L. Listed for flexible metal conduit only.
- [†] Approximate dimension with screw at minimum height.

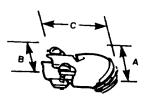
U.L. File No. E 23018 CSA File No. 2884







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



Squeeze Connectors – 90° angle

Cat.	Cable Opening		Trade K.O.	Dimensions (in.)			
No.	max.	min.	Size	Size	A	В	C
266-TB*	.656	.406	3/8"	1/2"	1½	113/32	1 7/16
272**	.812	.688	3/8"	1/2"	1%	100	-
268-TB	.937	.813	1/2"	1/2"	111/16	1 ¹³ ⁄16	1%
279	1.000	.875	3/4"	3/4"	1 13/16	21/16	113/16
270	1.125	1.000	3/4"	3/4"	1%	1¾	113/16
273TB	1.406	1.187	1"	1"	23/8	27/32	2 1/16
274***	1.656	1.375	11⁄4"	11/4"	3	3	3
275***	1.875	1.625	11/2"	11/2"	3%	35/16	4
276***	2.500	2.125	2"	2"	41/2	313/16	4%

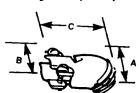
- * U.L. Listed as a grounding means under NEC350-5.
- ** U.L. Listed for armored cable only.
- *** U.L. Listed for flexible metal conduit only.
- U.L. File No. E23018
- CSA File No. 2884







%" and 1/4" sizes made in steel. Cap lifts off by simply loosening screws part way.



Squeeze Connector – 45° angle

Cat.	Cable Opening		Trade	K.O.	Dimensions (in.)			
No.	max.	min.	Size	Size	A	В	C	
265*	.656	.406	3/8"	1/2"	117/32	15/32	11/8	
267	.937	.813	1/2"	1/2"	123/32	1/2	11/4	
269	1.125	1.000	3/4"	3/4"	2	17/32	1%6	

* U.L. Listed as a grounding means under NEC350-5.

U.L. File No. E-23018

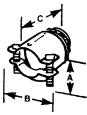
CSA File No. 2884



Armored Cable and Flexible Metal Conduit Fittings







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



^{**} U.L. Listed for armored cable only.

U.L. File No. E 1383 CSA File No. 2884



Malleable iron. For non-metallic and armored cable.

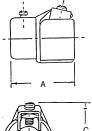
Duplex Clam	p Connector		
Cat.		Dimensio	ons (in.)
No.	K.O. Size	A	В
291-TB	1/2"	113/32"	111/16"

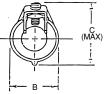
 $^{^{\}star}$ U.L. Listed as grounding means under NEC 350-5. U.L. File No. E 1383

CSA File No. 2884









TITE-BITE® Connector design holds flexible metal cable firmly in place with a single screw rather than two screws.

Adapter – EN	NT to Flex			
Cat.	Size		Dimensions (in.)	
No.	Flex to EMT	A	В	C
503TB	1/2" - 1/2"	121/32	13/16	1%
504	3/4" -3/4"	125/32	1 7/16	21/8
505-TB	1" - 1"	21/32	21/16	2%

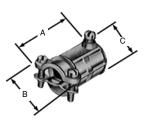
CSA File No. 8994 U.L. File No. E-23018



Armored Cable and Flexible Metal Conduit Fittings







A one piece fitting that couples ¾" flexible metal conduit to ½" electrical metallic tubing (EMT).

Com	bination	Coup	lina

Cat.	Size		Dimensions (in.)	
Cat. No.	Flex to EMT	A	В	С
449-TB*	3%" - 1/2"	121/32	111/32	15/16

* U.L. Listed as a grounding means under NEC 350-5. Cable opening: max. 656, min. .250 U.L. File No. E-23018

CSA File No. 2884



Anti-Short Bushing Cat. Size No. 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

 ${\sf Colorized}$ Temperature Rating: 240°F CSA File No. 589 U.L. not applicable.





Anti-short bushings are made of smooth plas-tic, and designed to protect conductor insula-tion from rough edges of armored cable and flexible metal conduit.

Elongated bolt hole makes alignment easy, even when holes in mounting surface are off center. Snap on features hold strap in place.

Strap		
Cat. No.	Size	
65-TB	¾" 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 sheath cable is provided with or without a bare or insulated equipment grounding conductor. Nonmetallic 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 sheath 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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- 1. NEC Article 336...Non-Metallic Sheathed Cable (Type NM & NMC)
- 2. NEC Article 300...Wiring Methods
- 3. U.L. 719, ANSI C33.56... Safety Standards for Non-Metallic Sheathed Cable
- U.L. 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

Please Note

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



Non-Metallic Sheathed Cable Fittings



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

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 U.L. 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.

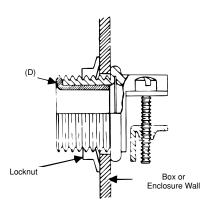


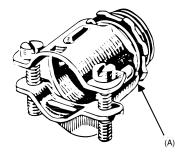
Non-Metallic Sheathed Cable Fittings

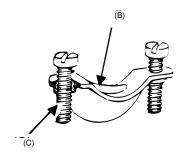


3302M Series Non-Metallic Sheathed Cable Connector

Typical Installation







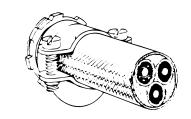
Non-Metallic Sheathed Cable & Flexible Cord Connectors (Steel)

Application

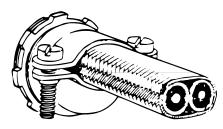
 To connect non-metallic sheathed cable and flexible cord to a box or an enclosure.

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).



Typical Installation (Flexible Cord)



Typical Installation (NM-Sheathed Cable)

- 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.

Standard Material

Body½" thru 1" Steel; 11/4" thru	J
2" Malleable Iror	n
Clamp½" thru 11/4" Steel; 11/4" thru	J
2" Malleable Iror	n
LocknutAll Stee	l
InsulatorThermoplastic)

Standard Finish

All steel and malleable iron parts – Electro Zinc Plated & Chromate Coated

Range

Hub Size	½" thru 2" Hu	bs
	provided with straig	ght
	pipe threads (NF	S.)
Cable	2 #14 thru 4 #4 Type N	MI
Cable Outsic	le Diameter25	50"
	to 1.1	50"

Listed/Certified by:

U.L. (U.L. File No: E-23017) CSA (LR-589, LR-2884)

Conforms to:

U.L. 514B CSA C22.2 No. 18 NFPA 70-1999 (ANSI) NEMA FB1 Federal Standard H-28 (Threads)



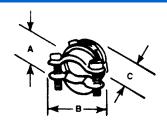
Non-Metallic Sheathed Cable Fittings





Two-screw Connectors





Steel or malleable iron.
Rounded cable grip and smooth bushing protect the cable sheath and wire insulation. Since 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.

Non-Insulated Cat.	Insulated Cat.	K.O.	U.L. Listed & CSA Certified for the following Single (1)	U.L. Listed & CSA Certified for the following				Cable (Opening
No.	No.	Size	and Pairs of (2) NM & NMC Cable	Service Entrance Cables	Α	В	C	max.	min.
3302-TB*	3302M-TB	1/2"	(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"	1%"	1"	.590	.250
3303-TB	3303M	3/4"	(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,	11/4"	15%"	1¾6"	.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	115/32"	1%"	11/4"	.990	.690
3305	3305M	11/4"	(2) 2#8, 2#6, 2#4, 3#8	GND, 2#1/0 + #2 GND, 2#2/0 + #1 GND	115/16"	21/32"	19⁄32"	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	25/32"	221/32"	15%"	1.515	.930
3307 3308† 3309† 3310† 3311†	3307M - - - -	2" 2½" 3" 3½" 4"	Max. 1.98", Min. 1.15" Max. 2.38", Min. 1.5" Max. 2.88", Min. 1.75" Max. 3.38", Min. 2.25" Max. 3.88", Min. 2.5"	-	2 ²⁵ ⁄32"	35⁄16"	12932"	1.980	1.150

^{*} U.L. Listed for use with rubber and thermoplastic flexible cords (both single and multiple cords and 2 oval cables).



[†] Not U.L. Listed or CSA certified.

U.L. Listed for multiple cords and cables.

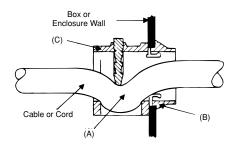
CSA File No. 2884

U.L. File No. E-23013 – ½" – 1½"; U.L. File No. E-15170 – 2"

Non-Metallic Sheathed Cable Fittings



3300 Series



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 effected 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.
- Wide range reduces inventories.
- Connector may be pre-installed in box K.O., or on cable.

Standard Material

All high impact thermoplastic - U.L. Class 94V-1 suitable for 105°C application.

Standard Finish

As Molded

Listed/Certified by:

U.L. (U.L. File No: E-23017) CSA (Cat. #3201, 3350) for factory installation (LR-589, LR-2884)

Conforms to:

U.L. 514B CSA C22.2 #18 (Where applicable) ANSI C33.84, NFPA 70-1999 (ANSI)

Range

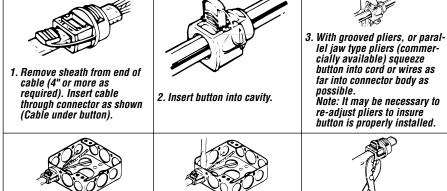
Cat. No.	Knockout Size	Cable/ Cord Range
3300	1/2"	10-2, 12-2 & 14-2 type NM Cable. .125" to .300" outside diameter cord
3201 & 3350	1/2"	10-3, 12-3, 14-3, 10-2, 12-2, 14-2 Type NM Cable; also multiple (2) 12-2 and 14-2 Type NM Cable; .300" to .600" outside diameter cord
3202	3⁄4"	8-3 and 6-3 type NM cables; also Multiple (2) 14-3 and 10-2 Type NM Cable; .500" to .850" outside diameter cord

Typical Installation

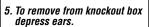
4. Snap connector into knockout

box. If desired this step can

be done prior to Step 1.









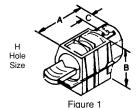
6. To remove from cable cut connector as shown.

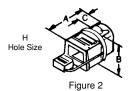
Non-Metallic Sheathed Cable Fittings











High impact thermoplastic. U.L. 94-V1. Features push-in design. Captive locking wedge secures cable with single squeeze of standard electrician's pliers. Provides excellent insulation, strain-relief and high pull-out value.

All Plastic Connector for NM Cable and Flexible Cord

Cat.		K.O.			Dime	ensions	s (in.)		F Max. Thk	
No.	Size Range	Size	Fig.	A	В	C	D	E	Enclosure	-
3300	For use with 10-2, 12-2 and 14-2 NM cables; 18-2 and 18-3 SJ and SJO cords and 18-2 SV, SVO, SJT and SJTO cords, single or multiple; cord capacity .125300 diameter	1/2"	2	11/32	15/16	3/8	.880	.795	.080	5⁄16" X 9∕16"
3201	For use with 10-3, 12-3, 14-3, 10-2, 12-2, 4-2 NM cables; multiple (2) 12-2 and 14-2 NM cables; single and multiple flexible cords in wire range .300 in. to .600 in.	1/2"	1	111/32	1	7/16	.880	.795	.080	² 1⁄3 ₂ dia.
3202	For use with 8-3 and 6-3 NM cables; (2) 14-3, 14-2, 12-2 and 10-2 NM cables; single and multiple flexible cords in wire range .500 in. to .850 in.	3/4"	1	1½	15⁄16	⅓ 6	1.100	1.005	.090	% dia.

U.S. Pat. 3,493,205 Temperature Rating: 105°C CSA File Nos. 584 and 2884 U.L. File No. E-23017



Cat. No. 3201 is ideal for multiple flexible cords and cable.



Snap captive locking wedge into connector's cavity.



Press locking wedge into cavity which locks onto cable.



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

Snap-In Connector for Flexible Metal Conduit

Cat.			D	imensions (iı	n.)	Unit	
No.	Conduit Size	K.O. Size	Α	В	C	Quan.	
100-TB	3/8"	1/2"	27/32	113/32	131/32	50	
100BP	3/8"	1/2"	27/32	113/32	131/32	250	

100BP sold in multiples of unit package. Temperature Rating: 105°C U.L. 94-V1 CSA File No. 0589



Conduit Dimensional Data

U.L. 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.)	
1/4	18	0.364	.540	.088	38.5	
3/8	18	0.493	.675	.091	51.5	
1/2	14	0.622	.840	.109	79.0	
3/4	14	0.824	1.050	.113	105.0	
1	11½	1.049	1.315	.133	153.0	
11/4	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	
21/2	8	2.469	2.875	.203	527.0	
3	8	3.068	3.500	.216	682.6	
31/2	8	3.548	4.000	.226	831.0	
4	8	4.026	4.500	.237	972.3	
41/2	8	4.506	5.000	.247	1150.0	
5	8	5.047	5.563	.258	1313.6	
6	8	6.065	6.625	.280	1745.3	

U.L. Dimensions for Intermediate Metallic Conduit[†] – Type I (10 ft. lgths.)

Trade	0.0	. (in.)	Wall Thickness	
Size (in.)	min.	max.	(in.)	
1/2	.810	.820	.070*	
3/4	1.024	1.034	.075*	
1	1.285	1.295	.085*	
11/4	1.630	1.645	.085*	
1½	1.875	1.890	.090*	
2	2.352	2.367	.095*	
21/2	2.847	2.867	.130**	
3	3.466	3.486	.130**	
31/2	3.961	3.981	.130**	
4	4.456	4.476	.130**	

^{* (+.015. -.000)}

U.L. Dimensions for Intermediate Metallic Conduit – Type II (10 ft. lgths.)

Trade	0.1	D. (in.)	Wall Thickness	
Size (in.)	min.	max.	(in.)	
1/2	.825	.840	.085*	
3/4	1.035	1.050	.085*	
1	1.300	1.315	.108*	
11/4	1.645	1.660	.108*	
1½	1.885	1.900	.108*	
2	2.360	2.375	.108*	
21/2	2.850	2.875	.155**	
3	3.475	3.500	.155**	
31/2	3.975	4.000	.160**	
4	4.475	4.500	.160**	



^{** (+.020. -.000)}

[†] IMC Threads are the same as Rigid Metal Conduit Threads.

^{* (+.020. -.000)} ** (+.025. -.000)

Conduit Dimensional Data

Knockout (sliphole) Sizes for Electrical Conduits and Connectors

Trade				
Size (in.)	nom.	min.	max.	
1/4	.575	.559	.605	
3/8	.718	.703	.734	
1/2	.875	.859	.906	
3/4	1.109	1.094	1.141	
1	1.375	1.359	1.406	
11/4	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	
41/2	5.109	5.063	5.166	
5	5.719	5.625	5.750	
6	6.813	6.700	6.844	

Sizes 1/4" thru 11/4" are per U.L. 514.

Sizes ½" thru 6" per proposed revision to NEMA Engineering Bulletin No. 71, Aug. 1976.

U.L. 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.)
3/8	.577 ± .005	.493	.042	.230
1/2	.706 ± .005	.622	.042	.285
3/4	.922 ± .005	.824	.049	.435
1	1.163 ± .005	1.049	.057	.640
11/4	1.510 ± .005	1.380	.065	.950
1½	$1.740 \pm .005$	1.610	.065	1.100
2	2.197 ± .005	2.067	.065	1.400
21/2	2.875 ± .010	2.731	.072	2.050
3	$3.500 \pm .015$	3.356	.072	2.500
31/2	4.000 ± .020	3.834	.083	3.250
4	$4.500 \pm .020$	4.334	.083	3.700

^{*} Not a requirement – included for information only.



Conduit Dimensional Data

Trade	Max. O.D.	0.		
Size (in.)	(in.)	min.	max.	
5⁄16	.510	.312	.393	
3/8	.610	.375	.645	
1/2	.920	.625	.835	
3/4	1.105	.812	=	
1	1.380	1.000	=	
11/4	1.630	1.250	=	
1½	1.950	1.500	=	
2	2.450	2.000	=	
21/2	3.060	3.500	=	
3	3.560	3.000	=	
31/2	4.060	3.500	=	
4	4.560	4.000	-	

U.L. Recommended Diameters for Liquidtight Flexible Metal Conduit

Trade	I.D	. (in.)	O.D. (in.)		
Size (in.)	min.	max.	min.	max.	
3/8	.484	.504	.690	.710	
1/2	.622	.642	.820	.840	
3/4	.820	.840	1.030	1.050	
1	1.041	1.066	1.290	1.315	
11/4	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	
21/2	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.)		O.D. (in.)	
	min.	max.	min.	max.
3/8	.485	.505	.755	.775
1/2	.620	.640	.910	.930
3/4	.815	.835	1.150	1.170
	1.030	1.055	1.415	1.440
1/4	1.370	1.395	1.800	1.825
1/2	1.585	1.620	2.045	2.080
	2.045	2.080	2.605	2.640

