Rigid and intermediate metal conduit fittings
Locknuts

—
01 140 Series
141AL Series
—
02 106 Series

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

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

Standard material
140 series and 106 series
- ⅜ in. through 2 in. steel (hardened)
- 2½ in. through 6 in. malleable iron
- All screws steel

141AL series
- All copper-free aluminum (less than 0.4% copper)

Standard finish
- All steel and malleable iron locknuts including bonding screws electro-zinc plated; all aluminum locknuts degreased.

Range
- ⅜ in. through 6 in. conduit (all threads straight pipe [NPS]) (140 series)
- ½ in. through 4 in. conduit (106 series and 141AL series)

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

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

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01

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02

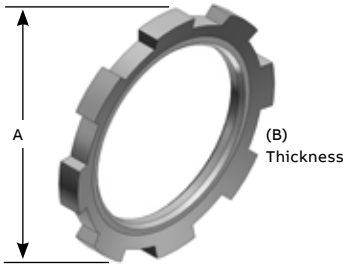
Rigid and intermediate metal conduit fittings

Locknuts

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

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

Locknuts



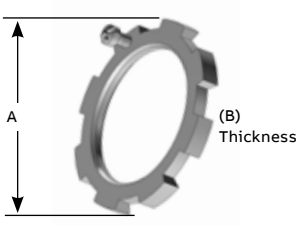
Cat. no.				Dimensions (in.)	
Stl. or M.I.	Alum.	SST	Size (in.)	A	B
139*†	–	–	¼	27/32	5/32
140*	–	–	⅜	15/16	5/32
141**	141AL	141SST	½	1 7/64	5/32
142-TB**	142AL	142SST	¾	1⅜	3/16
143	143AL	143SST	1	1 11/16	13/64
144	144AL	144SST	1¼	2 5/32	13/64
145	145AL	145SST	1½	2½	13/64
146-TB	146AL	146SST	2	3	7/32
147	147AL	–	2½	3 9/16	13/32
148	148AL	–	3	4 3/16	13/32
149	149AL	–	3½	4 13/16	15/32
150	150AL	–	4	5 5/16	15/32
151	151AL	–	4½	5 15/16	17/32
152	152AL	–	5	6½	17/32
153	153AL	–	6	7¾	17/32

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

Steel or malleable iron (steel through 2 in.)

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

Bonding locknuts

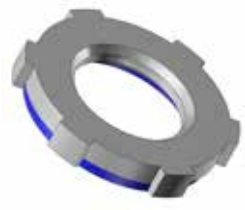


			Dimensions (in.)	
Cat. no.	Size (in.)	Screw Size (in.)	A	B
106	½	8-32 x 7/16	1⅜	0.125
107	¾	8-32 x 7/16	1⅝	0.140
108	1	8-32 x 7/16	1 15/16	0.170
109	1¼	8-32 x 7/16	2 5/32	0.170
110-TB	1½	8-32 x 7/16	2½	0.170
111	2	8-32 x 7/16	3	0.187
112-TB	2½	¼-20 x ⅝	3 13/32	0.375
113-TB	3	¼-20 x ⅝	4 13/16	0.375
114	3½	¼-20 x ⅝	4 29/32	0.438
115-TB	4	¼-20 x ⅝	5 7/16	0.438

Steel finish: zinc plated

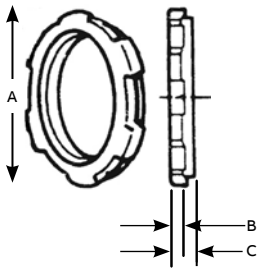
Rigid and intermediate metal conduit fittings

Sealing rings



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

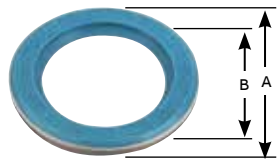
Fittings

Diagram	Cat. no.	Size (in.)	Dimensions (in.) A	B	C
	141SL	½	1.140	⅛	¼
	142SL	¾	1.420	5/32	9/32
	143SL	1	1.770	11/64	9/32
	144SL	1¼	2.281	11/64	5/16
	145SL	1½	2.598	11/64	9/32
	146SL	2	3.175	3/16	19/64

Steel finish: zinc plated

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

Sealing rings with stainless steel retainer

	Cat. no.	Conduit size (in.)	Dimensions (in.) A	B±1/64
	5302	½	1 11/64	¾
	5303	¾	1½	15/16
	5304-TB	1	1¾	1 11/64
	5305	1¼	2 9/64	1½
	5306	1½	2 27/64	1¾
	5307	2	2 59/64	2 15/64
	5308	2½	3 7/16	2 43/64
	5309	3	4 5/64	3 19/64
	5311	4	5 9/32	4 19/64

NEMA 3R, 4, 6 and 13

Rigid and intermediate metal conduit fittings

Bonding and grounding wedges

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

Features
- Sizes ¾ in. through 6 in. equipped with an additional bonding screw to install bonding jumper where required
- Can be added to an existing installation without disconnecting conductors

Standard material/finish
- ½ in. size:
  - Steel/electro-zinc plated
- ¾ in. through 6 in. size:
  - Bronze/tin plated

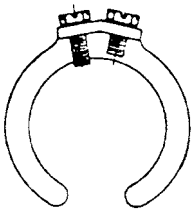
Range
- ½ in. through 6 in. conduit

Conformity
- UL 467
- CSA C22.2 No. 41
- NFPA70-2008 (ANSI)
- Federal Specification A-A-50552

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

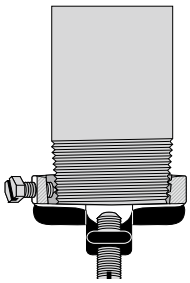
Update existing installations to meet code requirements for bonding (CEC Section 10-806) without disconnecting wiring. Use on new wiring also.
1. Loosen bushing and position wedge
2. Tighten bushing and bonding screw

Bonding and grounding wedges

	Cat. no.	Size (in.)
Series 3650 	3650	½
	3651	¾
	3652	1
	3653	1¼
	3654	1½
	3655	2
Series 3651 	3656	2½
	3657	3
	3658	3½
	3659	4
	3661	5
	3662	6

Rigid and intermediate metal conduit fittings

Blackjack® – Conduit grounding bushings



Innovative design makes installation quicker, easier.
The Blackjack grounding bushing never has to be threaded onto a conduit. It is simply placed in position on either a threaded or non-threaded rigid or IMC conduit, with the grounding lug in perfect position to accept the grounding wire. Even in tight installations, it's as simple as one, two, three. Compare the installation with conventional bushings that must be threaded onto the conduit. In tight areas, you may have to remove the grounding lug, keep up with the loose parts and then reattach the lug. Then you still have to twist and turn the bushing to get the lug in position to accept the grounding wire. The Blackjack bushing does away with these needless delays for good, making it the ideal grounding bushing and the only logical choice for small spaces, corners and multiple conduit runs. And, because the grounding lug is an integral part of the bushing, it is designed not to fall off or get lost.

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

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

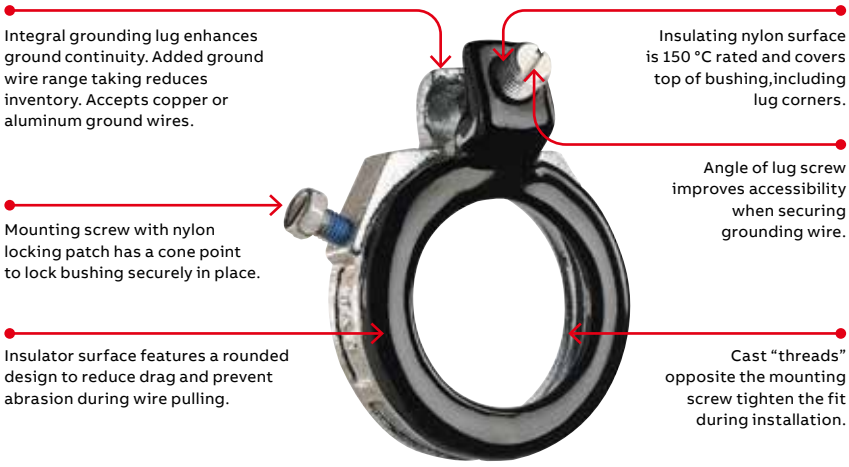
Reduce inventory.
Because the Blackjack grounding bushing is designed for threaded and non-threaded conduit, and the ground lugs are designed to handle an extended range, the number of parts in inventory is reduced by up to two-thirds without losing any application coverage.

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

Standard material/finish
- Body: Malleable iron or aluminum
- Mounting screw: (½ in.-2 in.) stainless steel, (2½ in.-6 in.) brass
- Lug screw: Stainless steel
- Finish: Zinc plated or mechanical galvanized

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

Conformity
- UL 514B and UL 467
- CSA C22.2 No. 18.3 and CSA C22.2 No. 41



Rigid and intermediate metal conduit fittings

Blackjack® – Conduit grounding bushings

Blackjack® – Conduit grounding bushings

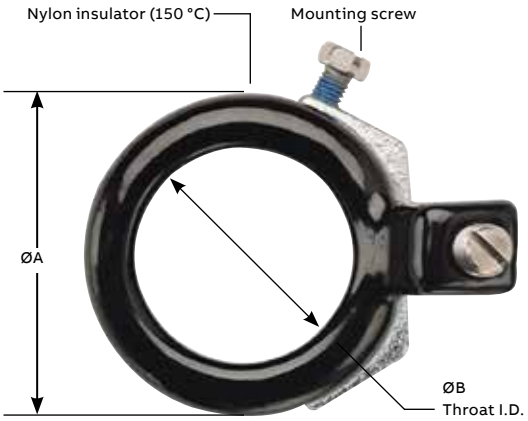
Cat. no. zinc plated malleable iron	Aluminum	Conduit size (in.)	ØA Max.	ØB Max.	ØC Max.	ØD Max.	Dim. E Max.	Wire range
BG050-14-20	BGA050-14-20	½	1.251	0.569	1.181	2.134	0.696	14–2/0
BG050-14-4	BGA050-14-4	½	1.251	0.569	1.027	1.940	0.696	14–4
BG075-14-20	BGA075-14-20	¾	1.533	0.772	1.221	2.414	0.696	14–2/0
BG075-14-4	BGA075-14-4	¾	1.533	0.772	1.030	2.168	0.696	14–4
BG100-14-20	BGA100-14-20	1	1.783	0.993	1.181	2.581	0.696	14–2/0
BG100-14-4	BGA100-14-4	1	1.783	0.993	1.027	2.368	0.696	14–4
BG125-14-20	BGA125-14-20	1¼	2.220	1.319	1.181	2.987	0.759	14–2/0
BG150-14-20	BGA150-14-20	1½	2.470	1.553	1.181	3.236	0.696	14–2/0
BG200-14-20	BGA200-14-20	2	2.830	2.010	1.181	3.766	0.696	14–2/0
BG250-14-20	BGA250-14-20	2½	3.148	2.412	1.181	4.341	0.978	14–2/0
BG250-6-40	BGA250-6-40	2½	3.148	2.412	1.524	4.526	0.978	6–4/0
BG300-14-20	BGA300-14-20	3	4.042	3.022	1.181	4.966	0.978	14–2/0
BG300-6-40	BGA300-6-40	3	4.042	3.022	1.524	5.139	0.978	6–4/0
BG350-14-20	BGA350-14-20	3½	4.542	3.491	1.181	5.467	0.978	14–2/0
BG350-6-40	BGA350-6-40	3½	4.542	3.491	1.524	5.639	0.978	6–4/0
BG400-14-20	BGA400-14-20	4	5.042	3.975	1.181	5.966	0.978	14–2/0
BG400-6-40	BGA400-6-40	4	5.042	3.975	1.524	6.139	0.978	6–4/0
BG500-14-20	BGA500-14-20	5	6.136	4.991	1.181	7.045	0.978	14–2/0
BG500-6-40	BGA500-6-40	5	6.136	4.991	1.524	7.207	0.978	6–4/0
BG600-14-20	BGA600-14-20	6	7.199	6.009	1.181	8.087	0.978	14–2/0
BG600-6-40	BGA600-6-40	6	7.199	6.009	1.524	8.409	0.978	6–4/0

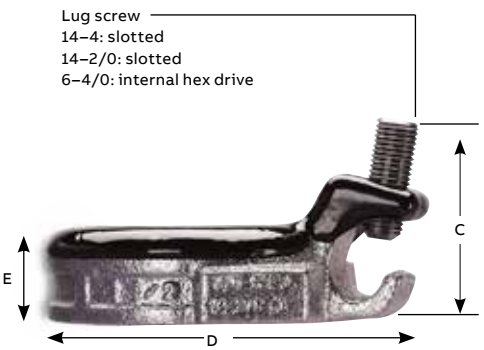
Suggested specifications
Insulated grounding and bonding bushing
(Series BG050-BG600)

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

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

Diagrams





For threaded and threadless rigid and IMC conduit

Rigid and intermediate metal conduit fittings

Threaded insulated grounding bushings

Application

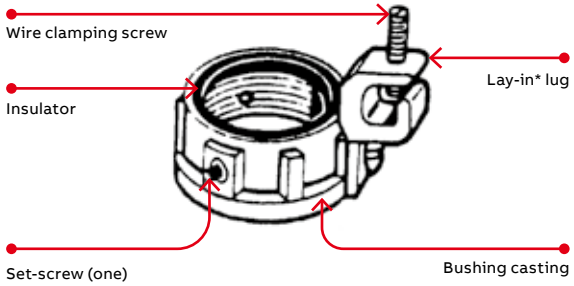
- For quick installation of bonding jumper to multiple metal conduit (rigid and IMC)
- Designed to bush conductors and prevent insulation damage

Features

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

Standard material / finish

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



Cat. no.	Conduit size (in.)	Bushing dia. (in.)	Throat dia. (in.)	Lug length (in.)	Swing radius (in.)	Bushing height (in.)	Wire range AWG Cu/Al
3870-TB	½	1.125	0.560	1.310	1.212	0.657	14–4
3861	½	1.125	0.560	1.675	1.402	0.657	8–2/0
3871-TB	¾	1.420	0.742	1.310	1.360	0.660	14–4
3862	¾	1.420	0.742	1.675	1.550	0.660	8–2/0
3872	1	1.770	0.944	1.310	1.535	0.735	14–4
3882	1	1.770	0.944	1.675	1.725	0.735	8–2/0
3873	1¼	2.190	1.242	1.310	1.745	0.735	14–4
3883	1¼	2.190	1.242	1.675	1.935	0.735	8–2/0
3874	1½	2.468	1.449	1.310	1.884	0.770	14–4
3884	1½	2.468	1.449	1.675	2.074	0.770	8–2/0
3875	2	3.031	1.860	1.310	2.165	0.770	14–4
3889	2	3.031	1.860	1.675	2.355	0.770	8–2/0
3876	2½	3.516	2.222	1.310	2.408	0.940	14–4
3886	2½	3.516	2.222	1.675	2.598	0.940	8–2/0
3993	2½	3.516	2.222	2.230	2.928	0.940	6–4/0
3877-TB	3	4.234	2.761	1.310	2.767	0.975	14–4
3887-TB	3	4.234	2.761	1.675	2.957	0.975	8–2/0
3994	3	4.234	2.761	2.230	3.287	0.975	6–4/0
3878	3½	4.781	3.193	1.310	3.040	0.975	14–4
3863	3½	4.781	3.193	1.675	3.230	0.975	8–2/0
3995	3½	4.781	3.193	2.230	3.560	0.975	6–4/0
3879	4	5.328	3.623	1.310	3.314	0.980	14–4
3864	4	5.328	3.623	1.675	3.504	0.980	8–2/0
3996	4	5.328	3.623	2.230	3.834	0.980	6–4/0
3880	5	6.328	4.542	1.310	3.814	0.985	14–4
3865	5	6.328	4.542	1.675	4.000	0.985	8–2/0
3998	5	6.328	4.542	2.230	4.334	0.985	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

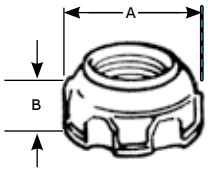
Temperature rating 150 °C
*Contact your regional sales office for copper lay-in lug

Rigid and intermediate metal conduit fittings

Bushings

Insulated throat fittings

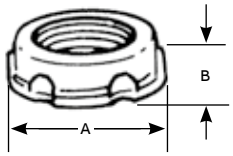
Nylon insulated metallic bushings.
Steel or malleable iron (steel through 1½ in.)
The Canadian Electric Code 10-906 (2) calls for protection of ungrounded conductors by means of smoothly rounded insulating surfaces at the entrance to raceways, pull boxes, junction boxes, etc. T&B insulated throat fittings,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

	Cat. no.			Dimensions (in.)	
	Steel or M.I.	Aluminum	Size (in.)	A	B
Diagram	1222	1222AL	½	1 1/32	29/64
	1223	1223AL	¾	1 9/32	31/64
	1224	1224AL	1	1 19/32	19/32
	1225-TB	1225AL	1¼	1 15/16	21/32
	1226-TB	1226AL	1½	2 3/16	23/32
	1227-TB	1227AL	2	2 11/16	7/8
	1228-TB	1228AL	2½	3 3/16	31/32
	1229-TB	1229AL	3	3 27/32	15/16
	1230	1230AL	3½	4 7/16	1 1/16
	1231	1231AL	4	4 7/8	1 3/32
	1232†	1232AL†	4½	5 7/16	1 15/64
	586	586AL	5	5 31/32	1 9/32
	587	587AL	6	7 3/16	1 11/32

† Not CSA Certified
The aluminum series are not CSA certified

Metallic bushings

Aluminum, steel or malleable iron (steel through 1½ in.)
Smoothly rounded shoulder covers end of conduit; broad flange covers knockout hole. High ribs make tightening easy with fingers or with wrench. ½ in.–1½ in. sizes, formed in steel, have extra smooth shoulders. Locknut-type base gives improved bonding and resists loosening under conditions of vibration.

	Cat. no.			Dimensions (in.)	
	Steel or M.I.	Aluminum	Size (in.)	A	B
Diagram	122	122AL	½	1 1/32	13/32
	123-TB	123AL*	¾	1 9/32	13/32
	124	124AL	1	1 19/32	½
	125-TB	125AL	1¼	1 15/16	9/16
	126	126AL	1½	2 3/16	9/16
	127	127AL	2	2 11/16	13/32
	128	128AL	2½	3 3/16	13/16
	129	129AL	3	3 27/32	13/16
	130-TB	130AL	3½	4 7/16	15/16
	131-TB	131AL	4	4 7/8	1
	132-TB	–	4½	5 7/16	1 5/64
	133-TB	133AL	5	6 1/16	1 1/16
	134-TB	134AL	6	7 3/16	1 1/16

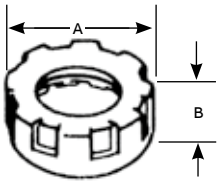
* Not UL Listed or CSA Certified

Rigid and intermediate metal conduit fittings

Plastic insulating bushings

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

Plastic insulating bushings

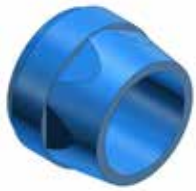
Diagram	Cat. no.	Size (in.)	Dimensions (in.) A	Dimensions (in.) B
	222-TB	½	1 1/16	3/8
	223-TB	¾	1 9/32	13/32
	224	1	1 37/64	9/16
	225-TB	1¼	2 1/32	9/16
	226	1½	2 15/64	9/16
	227	2	2 25/32	5/8
	228-TB	2½	3 13/32	3/4
	229-TB	3	4 3/32	3/4
	230-TB	3½	4 5/8	7/8
	231	4	5 3/16	7/8
	232	4½	5 5/8	7/8
	233	5	6 3/8	1
	234	6	7 7/16	1

Flame retardant. UL rated 94V-1

Rigid and intermediate metal conduit fittings

Insulating bushings for threadless rigid conduit and intermediate metal conduit

TRIB50 Series



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

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

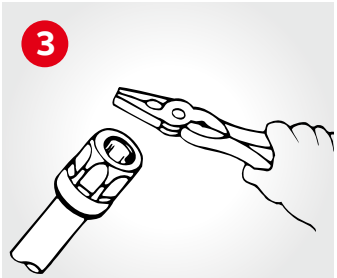
Standard material
- High impact thermoplastic listed for 105 °C (221 °F) application
- Flammability classification 94V-1

Standard finish
- As molded

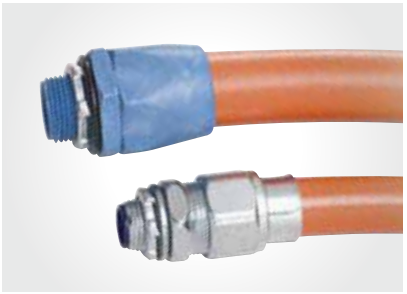
Range
- ½ in.–4 in. conduit

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

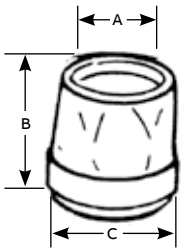
1. Cut conduit end squarely. Remove sharp edges and burrs on inside and outside diameters by reaming or filing.
2. Slip the pop-on bushing over the end of the conduit.



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



Insulated metallic bushing

Diagram	Cat. no.	Size (in.)	Dimensions (in.) A	B	C
	TRIB-50	½	19/32	1 9/32	1 1/16
	TRIB-75	¾	25/32	1 25/64	1 1/4
	TRIB-100	1	1	1 1/2	1 9/16
	TRIB-125	1 1/4	1 5/16	1 5/8	1 59/64
	TRIB-150	1 1/2	1 17/32	1 21/32	2 11/64
	TRIB-200	2	1 31/32	1 13/16	2 11/16
	TRIB-250	2 1/2	2 23/64	2	3 1/4
	TRIB-300	3	2 59/64	2 7/32	3 29/32
	TRIB-350	3 1/2	3 3/8	2 5/16	4 29/64
	TRIB-400	4	3 27/32	2 13/32	5

IMC sizes ½ in.–4 in.
UL Rated flame retardant 94V-1

Rigid and intermediate metal conduit fittings

Knockout bushings

3210 Series

Application
- To bush knockout openings in metal boxes or enclosures

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

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

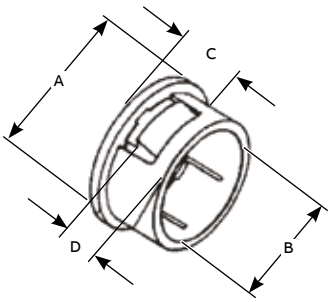
Standard finish
- As molded

Range
- 0.875 in. through 2.469 in. nominal diameter knockout opening (½ in. through 2 in. trade size knockouts)
- Wall thickness of box or enclosure 0.095 in. max. up to 1 in. trade size, 0.140 in. max. 1¼ in. through 2 in. trade size

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

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

Knockout bushings

Diagram	Cat. no.	Trade size (in.)	For use in KO* +0.032/ -0.16 (in.)	Max. wall thickness of elec. box (in.)	Dimensions (in.) A	B	C	D
	3210	½	0.875	0.095	1.000	0.725	0.360	0.180
	3211	¾	1.109	0.095	1.215	0.940	0.360	0.180
	3212	1	1.375	0.095	1.500	1.200	0.360	0.180
	3213	1¼	1.734	0.140	1.865	1.550	0.400	0.210
	3214	1½	1.984	0.140	2.240	1.760	0.530	0.310
	3215	2	2.469	0.140	2.740	2.245	0.530	0.310

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

Rigid and intermediate metal conduit fittings

INSULINER® sleeves

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

INSULINER sleeves

Cat. no.	Size (in.)	Dimensions (in.) A	Dimensions (in.) B
422	½	⅝	0.022
423	¾	11⁄16	0.025
424	1	⅞	0.040
425	1¼	1	0.040
426-TB	1½	1	0.050
427-TB	2	1⅛	0.050
428-TB*	2½	1¼	0.035
429*	3	1½	0.035
430-TB*	3½	1 25⁄32	0.035
431*	4	2 1⁄32	0.035
433*	5	2½	0.035
434*	6	2½	0.035

Catalogue numbers 422 to 427-TB inclusively are CSA and UL listed
*Catalogue numbers 428-TB to 434 inclusively are cULus listed
Oxygen index >28°

Rigid and intermediate metal conduit fittings

Knockout plugs

Application
- To bush knockout openings in metal boxes or enclosures

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

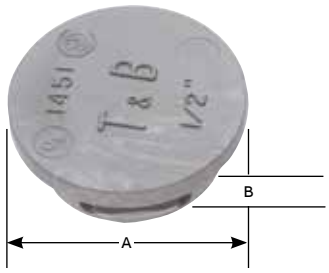
Standard material
- Thermoplastic rated for 105 °C (221 °F) application

Standard finish
- As molded

Range
- 0.875 in. through 2.469 in. nominal diameter knockout opening (½ in. through 2 in. trade size knockouts)
- Wall thickness of box or enclosure:
  - 0.095 in. max. up to 1 in. trade size
  - 0.140 in. max. 1¼ in. through 2 in. trade sizes

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

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



Cat. no.	Knockout trade size (in.)	Dimensions (in.) A	Dimensions (in.) B
1451	½	1.060	0.400
1452	¾	1.300	0.400
1453	1	1.590	0.400
1454	1¼	1.860	0.450
1455	1½	2.240	0.570
1456	2	2.740	0.570

Wall thickness of electrical box 0.095 max.

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 (in.)
815-TB	½
816	¾
817	1
818	1¼
819	1½
820	2
821	2½
822	3
824-TB	3½
823	4

UL not applicable

Rigid and intermediate metal conduit fittings

Bushings and Push-Penny® plugs

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

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

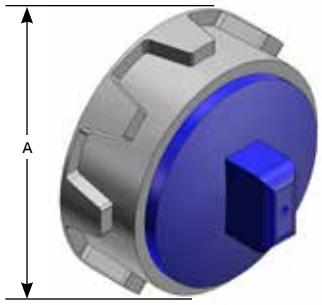
Standard material
- Polyethylene

Standard finish
- As molded

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

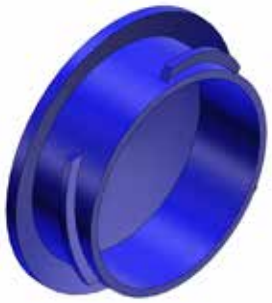
CEC Rule: 12-3024
- "Unused openings in boxes, cabinets and fittings shall be effectively closed by plugs or plates affording protection substantially equivalent to that of the wall of the box, cabinet or fittings."

Bushings and Push-Penny plugs



			Assembly consist of	
Cat. no.	Size (in.)	A (in.)	Bushing	Push-Penny
1460	½	1 1/32	122	1470-TB
1461	¾	1 9/32	123-TB	1471
1462	1	1 19/32	124	1472
1463	1¼	1 15/16	125	1473
1464	1½	2 3/16	126	1474
1465*	2	2 21/32	127	1475

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



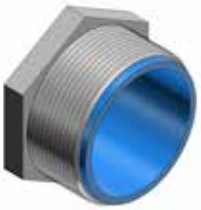
Push-Penny plugs

Cat. no.	Size (in.)
1470-TB	½
1471	¾
1472	1
1473	1¼
1474	1½
1475	2
1476*	2½
1477*	3
1478*	3½
1479*	4

*Not CSA Certified
UL not applicable

Rigid and intermediate metal conduit fittings

Chase nipples



1942 series
842AL series
(non-insulated)

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

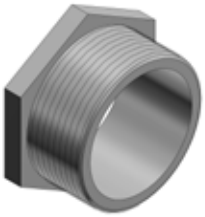
Features
- Rugged construction
- Insulator curled over to: Bush conductors entering/leaving at any angle, reduce wire pull effort, protect threads against damage in handling

Standard material
1942 Series
- Body:
  - ½ in. – Steel
  - ⅜ in., ¾ in. through 6 in. – Malleable iron
- Insulator: Nylon
- 842AL Series: All copper-free aluminum (less than 0.4% copper)

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

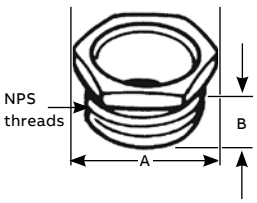
Range 1942 and 842AL series
- ½ in. through 6 in.
- All hub threads straight pipe (NPS)

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



Steel, malleable
iron or aluminum

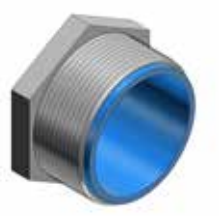
CHASE nipples – Non-insulated

	Cat. no.			Dimensions (in.)	
	Stl. or M.I.	Alum.	Size (in.)	A	B
Diagram	841TB	–	⅜	13/16	7/16
	842TB	842ALTB†	½	15/16	11/32
	843TB	843ALTB	¾	1 3/16	11/32
	844	844AL†	1	1 7/16	21/32
	845	845AL†	1¼	1¾	¾
	846	846AL	1½	2 1/16	13/16
	847	847AL	2	2½	31/32
	848	848AL	2½	3 1/16	1 1/16
	849	849AL	3	3 13/16	1 3/16
	850	850AL	3½	4⅜	1 5/16
	851	851AL	4	4¾	1 5/16
	853	853AL	5	5⅞	1 5/16
	854	854AL	6	6 15/16	1⅜

† Not UL Listed

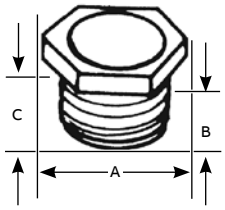
Rigid and intermediate metal conduit fittings

CHASE nipples



Steel or malleable iron

CHASE nipples – Nylon insulated

			Dimensions (in.)		
	Cat. no.	Size (in.)	A	B	C
Diagram	1942	½	15/16	½	19/32
	1943	¾	1 3/16	17/32	23/32
	1944	1	1 7/16	21/32	⅞
	1945-TB	1¼	1¾	25/32	1 1/32
	1946	1½	2 1/16	13/16	1 3/32
	1947	2	2 9/16	31/32	1 11/32
	1948	2½	3 1/16	1 1/16	1 7/16
	1949	3	3 13/16	1 3/16	1 19/32
	1950	3½	4 3/8	1 5/16	1 25/32
	1951	4	4 5/8	1 5/16	1 13/16
	1953	5	5 29/32	1 5/16	1 13/16
	1954	6	6 13/16	1 3/8	1 7/8

Rigid and intermediate metal conduit fittings

Threaded hubs (Bullet® hubs) for threaded rigid metal conduit/IMC/PVC-coated rigid metal conduit

—
01 370 Series
370AL Series
—
02 485 Series

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

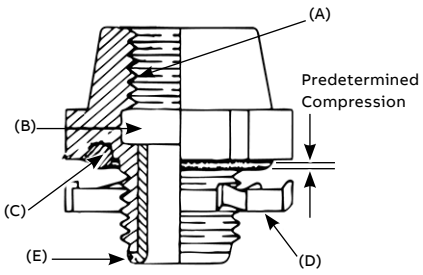
Features
- Rugged steel/malleable iron/copper-free aluminum construction
- Tapered internal threads for watertight/dust-tight union (A)
- Threads relieved to prevent bottoming of conduit, ensuring sound assembly (B)
- Recessed sealing ring at box end; captive sealing ring (C)
- Hardened steel/malleable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

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

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

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

Diagrams



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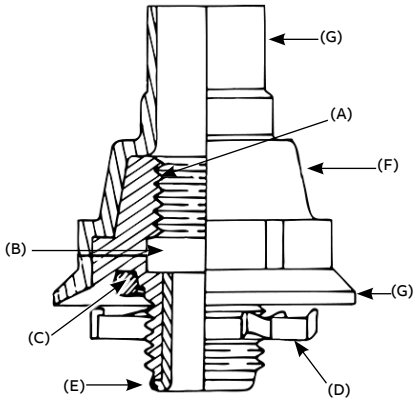

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02

Rigid and intermediate metal conduit fittings

Threaded hubs (Bullet® hubs) for threaded rigid metal conduit/IMC/PVC-coated rigid metal conduit

Standard material

	370-485 Series	370AL Series
Body	½ in. through 1 in. steel 1¼ in. through 6 in. malleable iron	All copper-free aluminum
Locknut	½ in. through 2 in. steel (hardened) 2½ in. through 6 in. malleable iron	½ in. through 2 in. steel (hardened) 2-½ in. through 4 in. copper-free aluminum
Screws	Steel (hardened)	
O-ring	Buna N	
Insulator	Nylon	
Coating	PVC	

Standard finish

	370 Series	370AL Series	485 Series
Hub	Electro-zinc plated	As cast chromate coated	PVC – outside electro-zinc
Locknuts	All ferrous locknuts electro-zinc plated and chromate coated		Plated chromate coated – inside
Screws	All electro-zinc plated and chromate coated		

Range

370 Series	½ in. through 6 in. conduit
370AL and 485 Series	½ in. through 4 in. conduit All hub threads – straight pipe All female threads – taper pipe (NPT)

Conformity

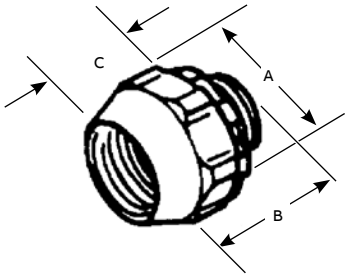
UL 514B
CSA 22.2 No. 18.3
ANSI C80.4
NFPA 70-2008 (ANSI)
NEMA FB-1
JIC EGP1; JIC EMP 1
Federal Specification W-F-408
Federal Standard H-28 (threads)

Rigid and intermediate metal conduit fittings

Hubs

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

Steel/malleable iron and aluminum hub fittings†

Diagram	Cat. no. Stl. or M.I.	Cat. no. Alum.**	Size (in.)	Dimensions (in.) A	B	C	Wall thk. max. (in.)
	370	370AL	½	1⅜	1⁵⁄₁₆	¾	⁵⁄₁₆
	371	371AL	¾	1⅝	1⅜	⅞	⁵⁄₁₆
	372	372AL	1	2³⁄₃₂	1²³⁄₃₂	1⁷⁄₃₂	⁵⁄₁₆
	373	373AL	1¼	2⁹⁄₁₆	2	1¹¹⁄₃₂	⁵⁄₁₆
	374	374AL	1½	3³⁄₃₂	2	1¹¹⁄₃₂	⁵⁄₁₆
	375	375AL	2	3⅝	1³¹⁄₃₂	1¹¹⁄₃₂	⁵⁄₁₆
	376	—	2½	4⅛	2²¹⁄₃₂	1¹⁵⁄₁₆	⁵⁄₁₆
	377	—	3	5	2³¹⁄₃₂	2	½
	378	—	3½	5⁹⁄₁₆	3⅛	2⅛	½
	379-TB	—	4	6⁹⁄₁₆	3⅛	2⅛	½
	381-TB	—	5	8	4	2³⁄₁₆	½
	382-TB	—	6	9³⁄₁₆	4	2³⁄₁₆	½

** Aluminum not available with insulated throat
† UL Listed raintight and CSA Certified watertight and dust tight

Bullet hub fittings with bonding locknut – Nylon insulated

Cat. no.	Size (in.)	Description
401	½	Available in steel or malleable iron Supplied with 106 Series bonding nut. Temperature rating: 105 °C.
402	¾	
403-TB	1	
407	2½	
408	3	
409	3½	
410-TB	4	

CSA certified watertight and dust tight

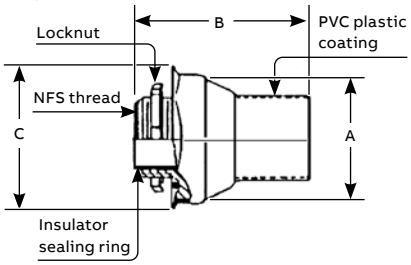
Rigid and intermediate metal conduit fittings

Hubs

Steel or malleable iron (steel through 1¼ in.)

PVC-coated hub for rigid conduit

Diagram



Cat. no.	Size (in.)	Dimensions (in.) A	B	C
485	½	1 21/64	2⅛	1⅞
486	¾	1 19/32	2⅜	2⅛
487	1	1 27/32	2¾	2⅜
488	1¼	2 15/32	3⅜	3⅛
489	1½	2 29/32	3⅝	3½
490	2	3⅜	3¾	4
491	2½	3 27/32	4	4½
492	3	4 21/32	4⅝	5⅜
493	3½	5 9/64	4 13/16	5⅞
494	4	5¾	4 9/16	6 7/16

*485 Series are CSA Certified watertight and dust-tight for ordinary locations

Spacing chart for Bullet hubs

Center to center spacing conduit sizes (in.) ½	¾	1	1¼	1½	2	2½	3	3½	4	Min. space from center of Bullet hub to wall of box (in.)	KO diameter min. (in.)
½	1 7/16	1⅝	1¾	2⅛	2⅜	2⅝	2⅞	3 5/16	3½	3⅞	¾	⅞
¾	–	1¾	1⅞	2¼	2½	2¾	3	3½	3¾	4⅛	⅞	1⅛
1	–	–	2	2⅜	2⅝	2⅞	3⅛	3⅝	3⅞	4¼	1⅛	1⅜
1¼	–	–	–	2 11/16	2 15/16	3¼	3½	4	4¼	4½	1⅜	1¾
1½	–	–	–	–	3⅛	3½	3¾	4⅛	4⅜	4¾	1⅝	2
2	–	–	–	–	–	3¾	4	4½	4¾	5	1⅞	2½
2½	–	–	–	–	–	–	4¼	4¾	5	5⅜	2⅛	3
3	–	–	–	–	–	–	–	5⅛	5⅜	5¾	2⅝	3⅝
3½	–	–	–	–	–	–	–	–	5⅝	6	2⅞	4⅛
4	–	–	–	–	–	–	–	–	–	6¼	3¼	4⅝

T&B Hub centerline spacing chart

Conduit trade size (in.)	½ (in.)	¾ (in.)	1 (in.)	1¼ (in.)	1½ (in.)	2 (in.)	2½ (in.)	3 (in.)	3½ (in.)	4 (in.)	5 (in.)	6 (in.)
½	1 9/16	–	–	–	–	–	–	–	–	–	–	–
¾	1 43/64	1 25/32	–	–	–	–	–	–	–	–	–	–
1	1 27/32	1 61/64	2⅛	–	–	–	–	–	–	–	–	–
1¼	2 1/32	2 9/64	2 5/16	2½	–	–	–	–	–	–	–	–
1½	2 7/32	2 21/64	2½	2 11/16	2⅞	–	–	–	–	–	–	–
2	2 15/32	2 37/64	2¾	2 15/16	3⅛	3⅜	–	–	–	–	–	–
2½	2 23/32	2 53/64	3	3 3/16	3⅜	3⅝	3⅞	–	–	–	–	–
3	3 1/32	3 9/64	3 5/16	3½	3 11/16	3 15/16	4 3/16	4½	–	–	–	–
3½	3 11/32	3 21/64	3⅝	3 13/16	4	4¼	4½	4 13/16	5⅛	–	–	–
4	3 19/32	3 45/64	3⅞	4 1/16	4¼	4½	4¾	5 1/16	5⅜	5⅝	–	–
5	4 9/32	3 25/64	4 9/16	4¾	4 15/16	5 3/16	5 7/16	5¾	6 1/16	6 5/16	7	–
6	4 11/16	4 51/64	4 31/32	5 5/32	5 11/32	5 19/32	5 27/32	6 5/32	6 15/32	6 23/32	7 13/32	7 13/16
Nearest obstruction to center of hub												
	27/32	61/64	1⅛	1 5/16	1½	1¾	2	2 5/16	2⅝	2⅞	2 9/16	3 31/32

Rigid and intermediate metal conduit fittings

Hubs

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

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

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

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

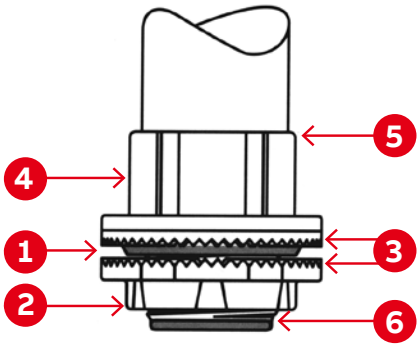
5. Precision machined tapered threads designed to create watertight union.

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

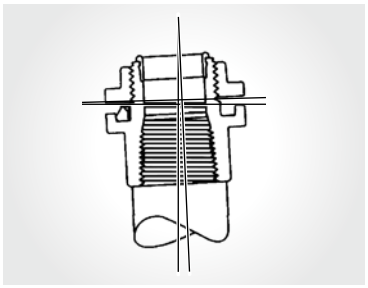
—
01 Figure 1

—
02 Figure 2

—
03 Figure 3



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



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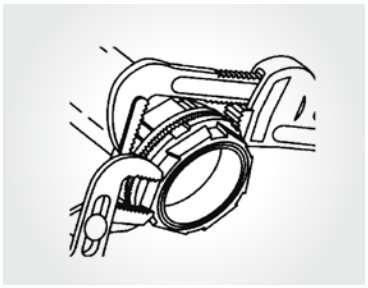

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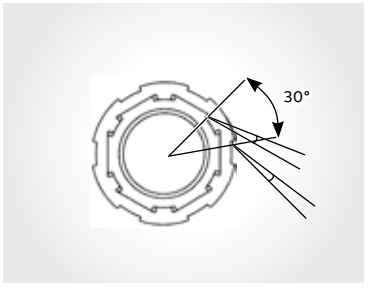

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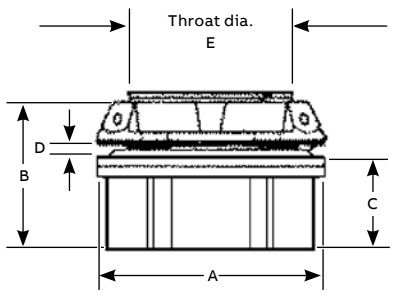
03

—
The T&B Hub

	Cat. no. zinc	Cat. no. aluminum	Trade size (in.)	Dimensions (in.) A	B	C	Max. panel thickness D (in.)	Throat dia. E (in.)
Diagram	H050-TB	H050A	½	1 7/16	1 9/16	7/8	3/16	19/32
	H075-TB	H075A	¾	1 21/32	1 19/32	29/32	3/16	25/32
	H100-TB	H100A	1	2	1 13/16	1 1/16	¼	1
	H125-TB	H125A	1¼	2 3/8	1 7/8	1 1/16	¼	1 5/16
	H150-TB	H150A	1½	2 3/4	1 7/8	1 1/16	¼	1 17/32
	H200-TB	H200A	2	3 1/4	1 15/16	1 5/32	¼	1 31/32
	H250-TB	H250A	2½	3 3/4	2 9/16	1 9/16	¼	2 13/32
	H300-TB	H300A	3	4 3/8	2 21/32	1 19/32	¼	2 31/32
	H350-TB	H350A	3½	5	2 23/32	1 5/8	¼	3 13/32
	H400-TB	H400A	4	5 1/2	2 23/32	1 5/8	¼	3 7/8
	H500-TB	H500A	5	6 7/8	3 1/32	1 15/16	¼	4 15/16
	H600-TB	H600A	6	7 11/16	3 5/32	2	¼	6

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

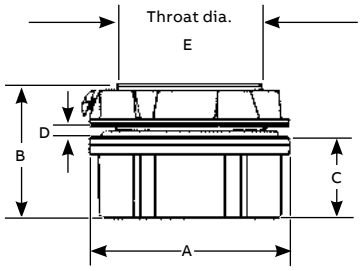
For chrome-plated hubs add suffix **CP** (i.e. H050CP).
Meets NEMA sealing requirements for NEMA 3R, 4 and 13 enclosures.
UL Listed and CSA Certified. CSA Certified use in hazardous locations Class I, Division 2, Class II, Groups E, F and G, Class III, Division 1, 2 and Type 4.
Chrome-plated hubs (suffix-"**CP**") are rated NEMA 4X.
For aluminum hubs add suffix **A** (i.e. H050A).

Rigid and intermediate metal conduit fittings

Hubs

Grounding hub

	Cat. no. zinc	Cat. no. aluminum	Trade size (in.)	Dimensions (in.) A	B	C	D Max. Panel Thickness	E Throat dia.
Diagram	H050GR-C	H050GRA-C	½	1 7/16	1 9/16	7/8	3/16	19/32
	H075GR-C	H075GRA-C	¾	1 7/16	1 19/32	29/32	3/16	25/32
	H100GR-C	H100GRA-C	1	2	1 13/16	1 1/16	¼	1
	H125GR-C	H125GRA-C	1¼	2 3/8	1 7/8	1 1/16	¼	1 5/16
	H150GR-C	H150GRA-C	1½	2 3/4	1 7/8	1 1/16	¼	1 17/32
	H200GR-C	H200GRA-C	2	3¼	1 15/16	1 15/32	¼	1 31/32
	H250GR-C	H250GRA-C	2½	3¾	2 9/16	1 9/16	¼	2 13/32
	H300GR-C	H300GRA-C	3	4 3/8	2 21/32	1 19/32	¼	2 31/32
	H350GR-C	H350GRA-C	3½	5	2 23/32	1 5/8	¼	3 13/32
	H400GR-C	H400GRA-C	4	5½	2 23/32	1 5/8	¼	3 7/8
	H500GR-C	H500GRA-C	5	6 7/8	3 1/32	1 15/16	¼	4 15/16
	H600GR-C	H600GRA-C	6	7 11/16	3 5/32	2	5/16	6

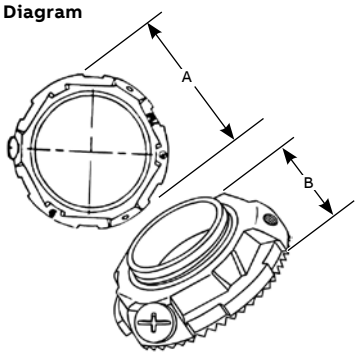


Material—Hub and locknut: Zinc or copper-free aluminum
Insulating throat: Thermoplastic temp. rating 105 °C; flammability rating: 94V-0
Sealing ring: Nitrile (Buna N)

For chrome-plated hubs add suffix CP (i.e. H050GRCP)
For 316 stainless steel hubs add suffix SST (i.e. H050GRSST)
For PVC coating add suffix PVC (i.e. H050GRPVC-C)
Meets NEMA sealing requirements for NEMA 3R, 4 & 13 enclosures
UL Listed and CSA Certified
CSA approved for use in hazardous locations: Class I, Division 2, Class II, Divisions 1 & 2, Groups E, F & G, Class III, Division 1, 2 and Type 4.

Grounding and bonding locknut

	Cat. no. with lay-in lug	Cat. no. without lay-in lug	Trade size (in.)	A dia. (in.)	B height (in.)	Ground screw (in.)	Max. conductor size (AWG)
Diagram	L050GRL	L050GR-C	½	1½	13/32	#10-32 x ¼	#10
	L075GRL	L075GR-C	¾	1 11/16	13/32	#10-32 x ¼	#10
	L100GRL	L100GR-C	1	2	13/32	#10-32 x ¼	#10
	L125GRL	L125GR-C	1¼	2 3/8	15/32	¼-20 x ¼	#10
	L150GRL	L150GR-C	1½	2 3/4	15/32	¼-20 x 5/16	#8
	L200GRL	L200GR-C	2	3¼	15/32	¼-20 x 5/16	#8
	L250GRL	L250GR-C	2½	3¾	11/16	¼-20 x 5/16	#6
	L300GRL	L300GR-C	3	4 3/8	23/32	¼-20 x 5/16	#6
	L350GRL	L350GR-C	3½	5	23/32	¼-20 x 5/16	#6
	L400GRL	L400GR-C	4	5½	23/32	¼-20 x 5/16	#4

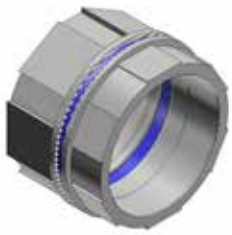


Material — Locknut: zinc or copper-free aluminum
For aluminum locknuts add suffix A. (i.e. L050GRA-C)

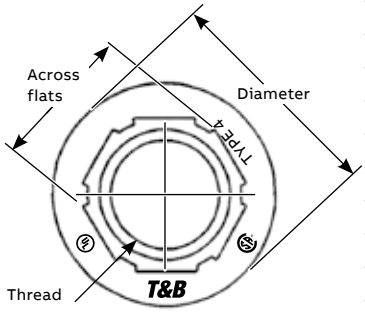
For chrome-plated locknuts add suffix CP. (i.e. L050GR-CP)
For 316 stainless steel locknuts add suffix SST (i.e. L050GRSST).

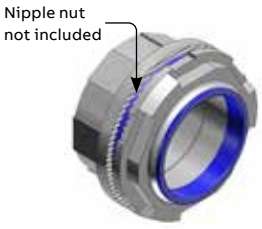
Rigid and intermediate metal conduit fittings

Bulkhead fittings



Bulkhead fittings

Diagram	Cat. no. zinc	Cat. no. aluminum	Trade size (in.)
	H050BHD	H050BHDA	½
	H075BHD	H075BHDA	¾
	H100BHD	H100BHDA	1
	H125BHD	H125BHDA	1¼
	H150BHD	H150BHDA	1½
	H200BHD	H200BHDA	2
	H250BHD	H250BHDA	2½
	H300BHD	H300BHDA	3
	H350BHD	H350BHDA	3½
	H400BHD	H400BHDA	4
	H500BHD	H500BHDA	5

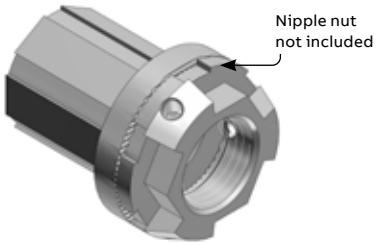


Thru-bulkhead fittings

Cat. no. zinc	Cat. no. aluminum	Size (in.)
H050TBF	H050TBFA	½
H075TBF	H075TBFA	¾
H100TBF	H100TBFA	1
H125TBF	H125TBFA	1¼
H150TBF	H150TBFA	1½
H200TBF	H200TBFA	2

Rigid and intermediate metal conduit fittings

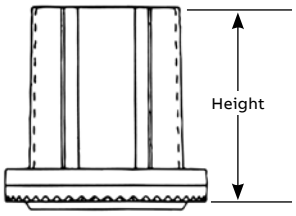
Bulkhead fittings

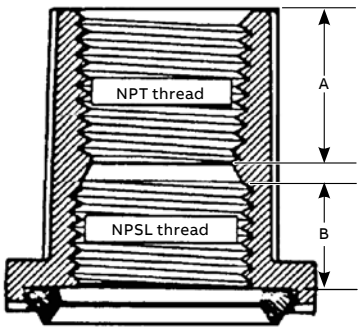


Thru-bulkhead hub

Cat. no. zinc	Cat. no. aluminum	Size (in.)
H050TBH	H050TBHA	½
H075TBH	H075TBHA	¾
H100TBH	H100TBHA	1
H125TBH	H125TBHA	1¼
H150TBH	H150TBHA	1½
H200TBH	H200TBHA	2

Diagrams





Trade size (in.)	Thread (in.)	Height (in.)	Diameter (in.)	Across Flats (in.)	A (in.)	B (in.)
½	½-14	1 13/32	1 7/16	1	¾	½
¾	¾-14	1 15/32	1 11/16	1¼	25/32	17/32
1	1-11½	1 11/16	2	1 17/32	29/32	19/32
¼	1¼-11½	1 25/32	2 3/8	1 27/32	29/32	21/32
1½	1½-11½	1 13/16	2¾	1⅛	29/32	21/32
2	2-1½	1 27/32	3¼	2⅝	15/16	21/32
2½	2½-8	2 9/32	3¾	3⅛	17/32	⅞
3	3-8	2 9/16	4⅜	3 25/32	15/16	29/32
3½	3½-8	2 9/16	5	4 9/32	1⅜	⅞
4	4-8	2 9/16	5½	4 27/32	1⅜	⅞
5	5-8	2 23/32	6⅝	5 29/32	1 15/32	⅞
6	6-8	3	7 11/16	7 1/32	1½	31/32

Material— Hub, body and locknut: Zinc or copper-free aluminum
Insulating throat: Thermoplastic temp. rating 105 °C; flammability rating: 94V-0
Sealing ring: Nitrile (Buna N)
For chrome-plated bulkhead add suffix CP

Rigid and intermediate metal conduit fittings

XD expansion/deflection couplings for rigid conduit

Watertight, flexible connections support movement and thermal expansion.
Use the XD expansion/deflection coupling to join two conduit runs in applications where movement in any direction is required. The coupling provides a flexible, watertight connection, accommodating axial or parallel movement of up to ¾ in. and angular movement of up to 30˚ from normal position. While similar fittings exist on the market today, this XD expansion/deflection coupling ships complete with an Erickson® conduit union to significantly reduce installation time and effort and includes a stainless steel inner sleeve for extreme durability, protection and easier wire pulling.

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

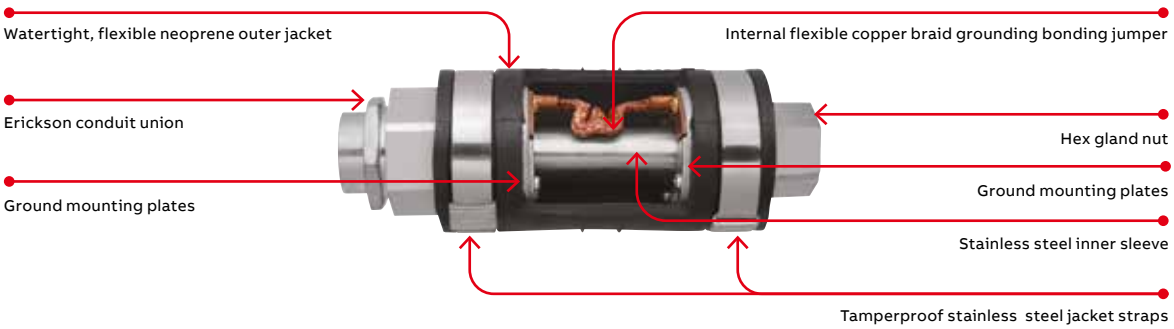
- Accommodates axial expansion/contraction up to ¾ in., parallel deflection up to ¾ in. and angular misalignment up to 30˚
- Suitable for use indoors, outdoors, direct buried or embedded in concrete
- Watertight, flexible neoprene outer jacket, zinc-plated and acrylic-painted hubs and stainless steel tamper-proof straps ensure superior corrosion resistance – ideal for use in harsh environments
- Copper ground mounting plates and internal grounding bonding jumper both entirely enclosed to safeguard against theft
- Includes an Erickson conduit union for faster, easier installation to reduce labor costs
- Durable stainless steel inner sleeve provides a constant, smooth inner diameter in any position to ease wire pulling and protect wire insulation from damage
- NPT threaded hubs fit standard threaded rigid metal conduit
- Can also be used with rigid PVC conduit with the use of standard adapters (not supplied)

Standard material/finish

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

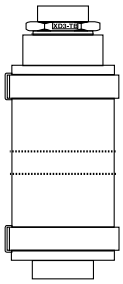
Certifications/compliances

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

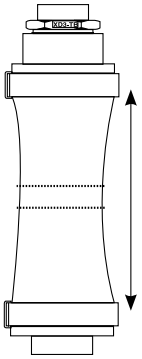


Rigid and intermediate metal conduit fittings

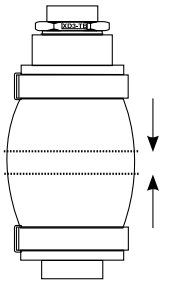
XD expansion/deflection couplings for rigid conduit



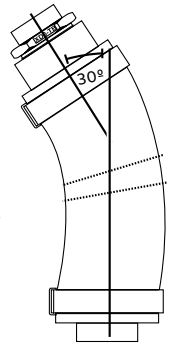
Relaxed position



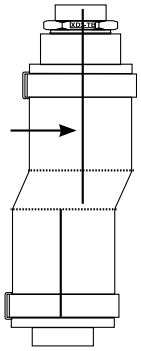
Up to ¾ in. expansion from relaxed position



Up to ¾ in. contraction from relaxed position

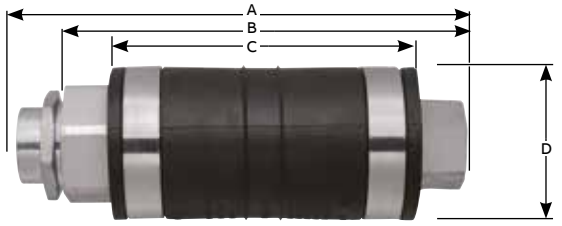


Up to 30° angular deflection



Up to ¾ in. parallel deflection

		Dimensions (in.)			
Cat. no. (in.)	**Hub size**	**A**	**B**	**C**	**D**
XD3-TB	1	9 13/16	8 15/32	6 7/16	3 11/32
XD4-TB	1¼	9 3/16	8 3/8	6 7/8	3 7/8
XD5-TB	1½	9¼	8 7/32	6¾	4 5/32
XD6-TB	2	9¾	8 21/32	7¼	4 11/16
XD7-TB	2½	11¾	11 3/8	8½	4 7/8
XD8-TB	3	10½	9 21/32	7 21/32	5 15/16
XD9-TB	3½	10 9/16	9¾	7¾	6 5/8
XD010-TB	4	13 3/16	11 27/32	8 7/8	7 9/32
XD012-TB	5	14	12 15/16	11	8 9/32
XD014-TB	6	14 5/16	13 3/8	11 3/8	9 19/32



Rigid and intermediate metal conduit fittings

XJG conduit expansion couplings for rigid conduit

—
01 Slide the fitting onto the conduit until it stops at the internal sliding bushing. Tighten and you're ready. No parts to reassemble.
—
02 With a wrench, tighten the gland nut to compress the Teflon® packing, creating a raintight seal around the conduit.
—
03 Thread the next length of conduit into the other end of the fitting and tighten. You're done.
—
04 4" movement shown
—
05 8" Movement shown

Easy to install – save time and money on the job. No disassembly required.
Used where:

- Raceways require expansion fittings to compensate for thermal expansion and contraction
- Expansion fittings and telescoping sections of metal raceway must be made electrically continuous by bonding jumpers or other means

Suggested specifications for expansion fittings for rigid steel or intermediate metal conduit.

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

Standard material/finish

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

Teflon is a trademark of DuPont.

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01

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02

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03

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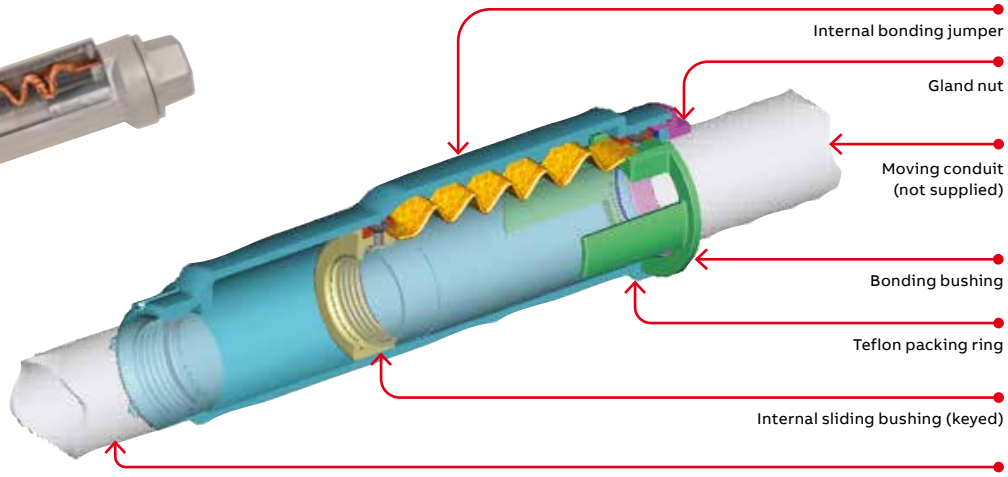

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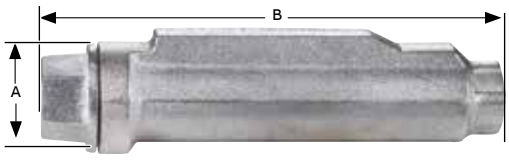
05

Rigid and intermediate metal conduit fittings

XJG conduit expansion couplings for rigid conduit

			Dimensions (in.)		
Cat. no.	**Size (in.)**	**Movement (in.)**	**A**	**B**	**C**
XJG24-TB	¾	4	2.43	10.00	2.75
XJG28-TB	¾	8	2.43	14.00	2.75
XJG34-TB	1	4	2.67	10.00	2.99
XJG38-TB	1	8	2.67	14.00	2.99
XJG44-TB	1¼	4	3.36	10.56	3.68
XJG48-TB	1¼	8	3.36	14.56	3.68
XJG54-TB	1½	4	3.36	10.56	3.68
XJG58-TB	1½	8	3.36	14.56	3.68
XJG64-TB	2	4	3.86	11.25	4.18
XJG68-TB	2	8	3.86	15.25	4.18
XJG74-TB	2½	4	4.96	12.12	5.25
XJG78-TB	2½	8	4.96	16.12	5.25
XJG84-TB	3	4	4.96	12.12	5.25
XJG88-TB	3	8	4.96	16.12	5.25
XJG94-TB	3½	4	6.37	12.87	6.75
XJG98-TB	3½	8	6.37	16.87	6.75
XJG104-TB	4	4	6.37	12.87	6.75
XJG108-TB	4	8	6.37	16.87	6.75
XJG1208-TB	5	8	7.99	18.87	8.56



Also available in Ocal™ PVC coating and for EMT.

Rigid and intermediate metal conduit fittings

XJG-EMT conduit expansion couplings for EMT

Features

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

Standard material/finish

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

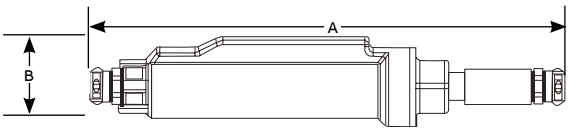
Certifications/compliances

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

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

Cat. no.	Size (in.)	Movement (in.)	A (length in.)	B (height in.)
XJG24-EMT	¾	4	17.39	2.75
XJG28-EMT	¾	8	21.39	2.75
XJG34-EMT	1	4	17.42	2.99
XJG38-EMT	1	8	21.42	2.99
XJG44-EMT	1¼	4	18.27	3.46
XJG48-EMT	1¼	8	22.27	3.46
XJG54-EMT	1½	4	18.69	3.68
XJG58-EMT	1½	8	22.69	3.68
XJG64-EMT	2	4	19.04	4.18
XJG68-EMT	2	8	23.04	4.18
XJG74-EMT	2½	4	23.23	4.52
XJG78-EMT	2½	8	27.23	4.52
XJG84-EMT	3	4	24.09	5.25
XJG88-EMT	3	8	28.09	5.25
XJG94-EMT	3½	4	28.70	6.00
XJG98-EMT	3½	8	28.70	6.00
XJG104-EMT	4	4	29.30	6.75
XJG108-EMT	4	8	29.30	6.75

Diagram

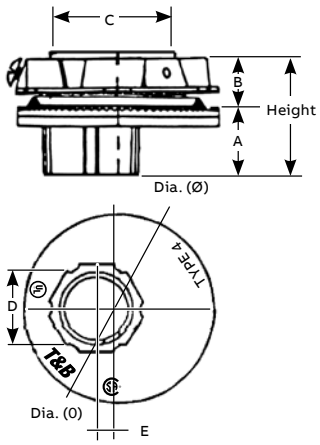


Rigid and intermediate metal conduit fittings

Rigid and capoffs

Offset reducers

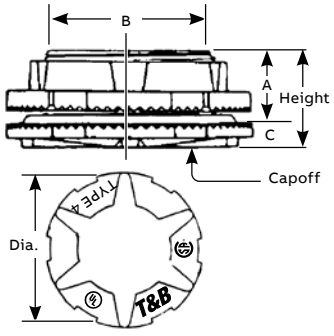
	Cat. no. zinc	Cat. no. aluminum	Trade size (in.)	Height (in.)	Diameter (in.)	Dimensions (in.) A	B	C	D	E
Diagrams	H150-075ORGR-TB	H150-075ORGRA-TB	1½–¾	1 21/32	2¾	15/16	23/32	1 29/32	1 9/32	11/32
	H150-100ORGR-TB	H150-100ORGRA-TB	1½–1	1 25/32	2¾	1 1/16	23/32	1 29/32	1 9/16	7/32
	H150-125ORGR-TB	H150-125ORGRA-TB	1½–1¼	1 25/32	2¾	1 1/16	23/32	1 29/32	1 7/8	1/32
	H250-200ORGR-TB	H250-200ORGRA-TB	2½–2	2⅛	3¾	1 3/16	15/16	2 29/32	2 21/32	3/32



Material – Offset reducer and locknut: Zinc or copper-free aluminum
Insulating throat: Thermoplastic temp. rating 105 °C; flammability rating 94V-0
Sealing ring: Nitrile (Buna N)
For chrome-plated offset reducer add suffix CP. (i.e. H150-125ORGRCP-TB)

Capoffs

	Cat. no. zinc	Cat. no. aluminum	Trade size (in.)	Height (in.)	Diameter (in.)	Dimensions (in.) A	B	C
Diagrams	H050CAP	H050CAPA	½	1 13/32	1 7/16	19/32	27/32	3/16
	H075CAP	H075CAPA	¾	1 15/32	1 11/16	19/32	1 1/16	3/16
	H100CAP	H100CAPA	1	1 11/16	2	11/16	1 5/16	¼
	H125CAP	H125CAPA	1¼	1 25/32	2⅜	23/32	1 21/32	¼
	H150CAP	H150CAPA	1½	1 13/16	2¾	23/32	1 29/32	¼
	H200CAP	H200CAPA	2	1 27/32	3¼	23/32	2⅜	¼
	H250CAP	H250CAPA	2½	2 9/32	3¾	7/8	2 29/32	¼
	H300CAP	H300CAPA	3	2 9/16	4⅜	7/8	3 1/32	11/32
	H350CAP	H350CAPA	3½	2 9/16	5	29/32	4 1/32	11/32
	H400CAP	H400CAPA	4	2 9/16	5½	29/32	4½	11/32
	H500CAP	H500CAPA	5	2 23/32	6⅝	29/32	5 9/16	11/32
	H600CAP	H600CAPA	6	3	7⅝	31/32	6⅝	11/32



Material – Capoff and locknut: Zinc or copper-free aluminum
Insulating throat: Thermoplastic temp. rating 105 °C; flammability rating 94V-0
Sealing ring: Nitrile (Buna N)
For chrome-plated capoff add suffix CP. (i.e. H050CAPCP)

Rigid and intermediate metal conduit fittings

Threadless fittings/couplings for threadless rigid metal conduit and intermediate metal conduit

— 01 8123 Series
— 02 8130 Series
— 03 8120 Series

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

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

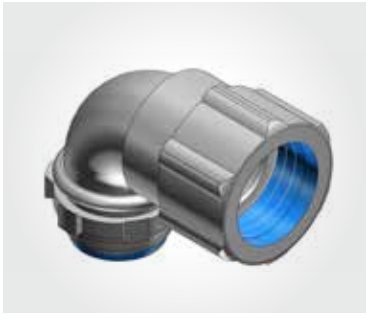
Standard material
- Nut, gland: ½ in. to 1 in. steel, 1¼ in. to 4 in. malleable Iron
- Body: All malleable iron
- Ring: Steel (case-hardened)
- Insulator: Nylon
- Locknut: ½ in. through 2 in. steel (hardened) 2 in. through 4 in. malleable iron

Standard finish
- Electro zinc plated and chromate coated

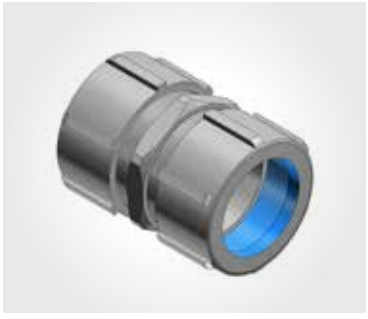
Range
- 8123 and 8120 Series: ½ in. through 4 in. size conduit
- 8130 Series: ½ in. and ¾ in. size conduit
- All hub threads: Straight pipe (NPS)

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

— 01



— 02



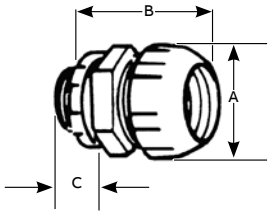
— 03

Rigid and intermediate metal conduit fittings

Threadless fittings

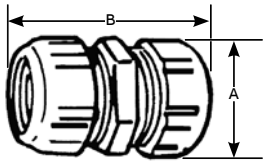
A split steel ring with diagonal serrations grips the conduit and bites into it for positive ground. Makes a permanent connection and eliminates the need for cutting a thread on the conduit. Insulation helps to guarantee continuity of service with protection of the conductor at the critical point – the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

Nylon-insulated threadless fittings

	Cat. no.		Conduit size	Dimensions (in.)		
	Nylon insulated	Non-insulated	(in.)	A	B	C
Diagram	8123	8121	½	1 11/32	1 15/16	¾
	8223	8221	¾	1 5/8	2	¾
	8323	8321	1	1 7/8	2 7/16	⅞
	8423	8421	1¼	2 3/8	2 9/16	11/16
	8523	8521	1½	2 5/8	2¾	¾
	8623	8621	2	3¼	2 15/16	27/32
	8723-TB	8721	2½	3 15/16	3 15/16	1⅛
	8823-TB	8821	3	4 11/16	4⅛	1 7/32
	8853	8851	3½	5 3/16	4¼	1⅛
	8973	8971	4	5 11/16	5	1⅛

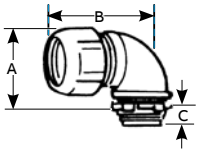
Eliminate conduit threading. When tightened with a wrench, they make a UL Listed and CSA Certified concrete-tight connection. Malleable iron construction.

Threadless couplings

			Dimensions (in.)	
	Cat. no.	Size (in.)	A	B
Diagram	8120	½	1 9/32	2
	8220	¾	1 19/32	2 5/16
	8320	1	1 7/8	2 11/16
	8420	1¼	2 3/8	2 13/16
	8520	1½	2 5/8	3 5/8
	8620	2	3¼	3 13/16
	8720	2½	3 15/16	5 3/8
	8820	3	4 11/16	5½
	8850	3½	5 3/16	5½
	8970	4	5 11/16	5½

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

Threadless short elbows – Nylon-insulated

			Dimensions (in.)		
	Cat. no.	Size (in.)	A	B	C
Diagram	8130	½	1 11/32	1½	½
	8131	¾	1 5/8	1¾	9/16
	8132	1	1 7/8	1 15/16	11/16
	8134	1½	2 23/32	3⅛	13/16

Rigid and intermediate metal conduit fittings

Set-screw fittings/couplings for threadless rigid metal conduit and intermediate metal conduit

—
01 8125 Series
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02 8124 Series

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

Features
- Thickwall steel or malleable iron body
- Hardened hex head cup point screw to provide high quality bond
- Captive screw, will not vibrate loose
- Nylon-insulated throat meets and exceeds all codes requirements for bushing:
  (1) Prevents thinning of insulation
  (2) Reduces installation effort
  (3) Prevents first thread damage
- Coupling provided with positive center stop
- Suitable for concrete-tight application
- Capable of carrying ground fault currents up to 10,000 amps RMS (½ through 1½ in. size) and 20,000 amps RMS (2 in. and above sizes)

Standard material
- Body: ½ in. through 2 in. steel
  2½ in. through 4 in. malleable iron
- Locknut: ½ in. through 2 in. steel (hardened)
  2½ in. through 4 in. malleable iron
- Screw: Steel (hardened)
- Insulator: Nylon

Standard finish
- Electro zinc plated and chromate coated

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

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01

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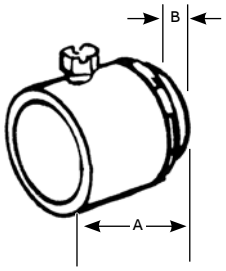
02

Rigid and intermediate metal conduit fittings

Set-screw fittings/couplings for threadless rigid metal conduit and intermediate metal conduit

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

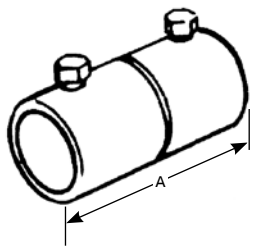
Insulated set-screw fittings

			Dimensions (in.)	
	Cat. no.	Conduit size (in.)	A	B
Diagram	8125	½	1⅜	13/32
	8225	¾	1½	7/16
	8325	1	1 13/16	35/64
	8425-TB	1¼	2	⅝
	8525-TB	1½	2 5/16	⅝
	8625	2	2 7/16	11/16
	8725-TB	2½	3⅜	1
	8825-TB	3	3 7/16	1
	8855	3½	3⅞	1 1/16
	8975	4	4 3/16	1⅛

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

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

Set-screw couplings

		Dimensions (in.)
	Cat. no.	Conduit size (in.)	A
Diagram	8124	½	2½
	8224	¾	2 11/16
	8324-TB	1	2 27/32
	8424	1¼	3
	8524	1½	3⅜
	8624	2	3⅝
	8724-TB	2½	3⅞
	8824-TB	3	4¼
	8974	4	5⅜

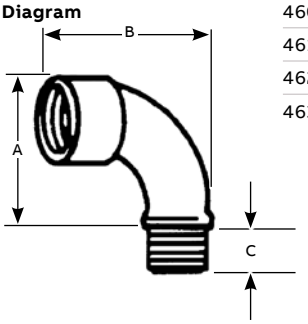
Sizes ½ in.–2 in. made of steel; sizes 2½ in.–4 in. are malleable iron

Rigid and intermediate metal conduit fittings

Elbows

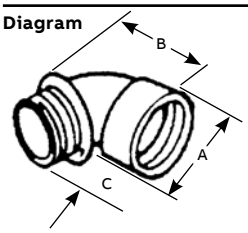
Bushed elbows

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

Diagram	Cat. no.	Size (in.)	Dimensions (in.) A	B	C
	460TB	½	1 13/16	1⅛	⅝
	461TB	¾	2¼	1½	9/16
	462	1	2 23/32	1 23/32	11/16
	463	1¼	3⅛	2 1/16	25/32

Short elbows – Nylon-insulated

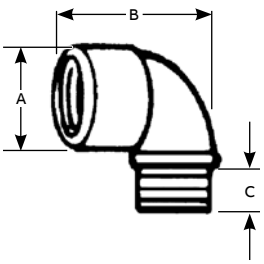
The integral insulation of the insulated elbow is a guarantee that the bushing of every fitting will be smooth. Malleable iron.

Diagram	Cat. no.	Size (in.)	Dimensions (in.) A	B	C
	4290	½	17/32	1¼	½
	4291	¾	1 7/16	1 5/16	9/16
	4292	1	1 23/32	1 9/16	11/16
	4293	1¼	2 7/32	2 1/16	13/16

Not UL Listed

Short elbows

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

Diagram	Cat. no.	Size (in.)	Dimensions (in.) A	B	C
	4250	½	1 5/16	1¼	7/16
	4251	¾	1 17/32	1 5/16	½
	4252	1	1 13/16	1 9/16	⅝
	4253	1¼	2 9/32	2 1/16	11/16
	4254-TB	1½	2 9/16	2 3/16	11/16
	4255-TB	2	3 3/32	2 9/16	11/16

Rigid and intermediate metal conduit fittings

Threaded (ERICKSON®) couplings for threaded rigid metal conduit and intermediate metal conduit

674 Series
675AL Series

Application

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

Features

- Malleable Iron/steel/copper-free aluminum construction
- Free-fitting threads ensure easy assembly
- Permits conduit coupling without rotating either conduit
- Provides rigid in-line coupling with high quality grounding; will not loosen under vibration
- Suitable for concrete-tight application.
- Capable of carrying ground fault currents up to 10,000 amps RMS (½ in. through 1½ in. size) and up to 20,000 amps RMS (2 in. and above) (duration of fault current 3 cycles) (674 series tested)

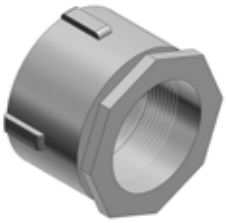
Standard material

674 Series

- Bushing and body: malleable iron
- Ring: steel up to 2 in. or malleable iron

675AL Series

- Bushing and body: aluminum
- Ring: aluminum



ERICKSON couplings

Standard finish

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

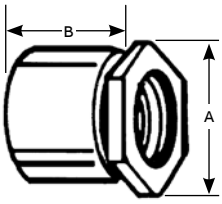
Range

- 674 Series: ⅜ in. through 6 in. conduit
- 675AL Series: ½ in. through 6 in. conduit
- All straight pipe threads (NPS)

Conformity

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

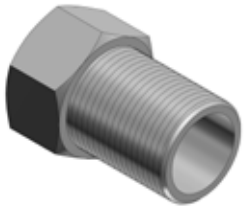
With an ERICKSON coupling, a conduit run may be completed when neither conduit can be turned. A conduit run may also be broken without taking down the whole run. Conduit joined with ERICKSON couplings is rigid and in line, and vibration will not loosen the connections.

	Cat. no.			Dimensions (in.)	
	Mal. iron	Alum.*	Size (in.)	A	B
Diagram	674	–	⅜	1⅛	1⅛
	675	675AL	½	1 15/32	1¼
	676-TB	676AL	¾	1 9/16	1 13/32
	677	677AL	1	1 29/32	1⅝
	678	678AL	1¼	2⅜	1 13/16
	679	679AL	1½	2⅝	1 31/32
	680-TB	680AL	2	3 7/32	2 7/32
	681	681AL	2½	3 3/32	2 11/16
	682	682AL	3	4 7/16	2 29/32
	683	683AL	3½	5	3
	684	684AL	4	5½	3 9/16
	685	685AL†	4½	6¼	3 15/32
	686	686AL	5	6 25/32	3¾
	687	687AL	6	8	4 1/32

* Copper-free aluminum (less than 0.4% copper)
UL Listed and CSA Certified concrete-tight
† Not CSA Certified

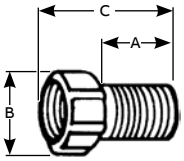
Rigid and intermediate metal conduit fittings

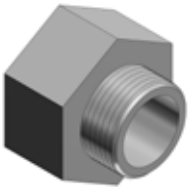
Extensions and enlargers



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

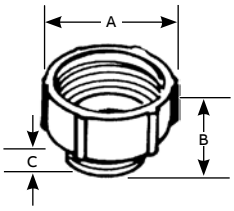
Panel fitting extensions

			Dimensions (in.)		
	Cat. no.	Size (in.)	A	B	C
Diagram	1440	½	1¼	1 3/16	1 7/8
	1441	¾	1¼	1 13/32	1 15/16
	1442	1	1 3/16	1 21/32	1 15/16
	1443	1¼	1¼	2⅛	2



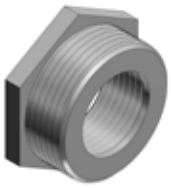
Adapt an outlet hole to the next larger size of conduit. Rough ends of conduit carefully covered by built-in bushing. Malleable iron.

Male enlargers

			Dimensions (in.)		
	Cat. no.	Size (in.)	A	B	C
Diagram	1245	½	1¼	1 3/16	1 7/8
	1246-TB	¾	1¼	1 13/32	1 15/16
	1244	1	1 3/16	1 21/32	1 15/16
	1247	1¼	1¼	2⅛	2

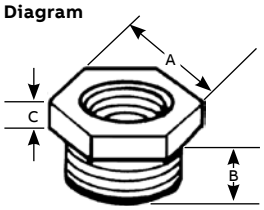
Rigid and intermediate metal conduit fittings

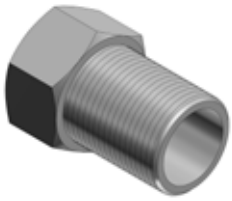
Reducers



Female reducers

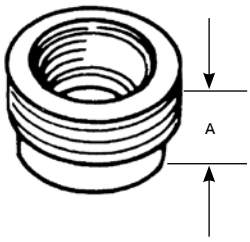
Adapt an outlet hole to the next larger size of conduit. Rough ends of conduit carefully covered by built-in bushing. Malleable iron.

Diagram	Cat. no.	Size (in.)	Dimensions (in.) A	B	C
	1250-TB	¾–½	1⅛	⅝	3/16
	1261	1–½	1 7/16	1 7/16	3/16
	1251	1–¾	1⅜	11/16	3/16
	1262	1¼–½	1 13/16	21/32	3/16
	1263	1¼–¾	1 13/16	23/32	3/16
	1252	1¼–1	1¾	25/32	7/32
	1253	1½–1¼	2	13/16	¼
	1254	2–1½	2⅜	1 3/16	9/32
	1255	2½–2	3	1¼	⅜
	1256	3–2½	3⅝	1½	½
	1257	3½–3	4⅛	1 9/16	½
	1258	4–3½	4⅝	1 3/16	½



Threaded reducers

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

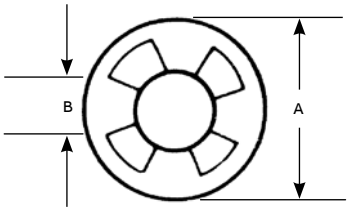
Diagram	Cat. no. Stl. or M.I.	Alum.	Size (in.)	Dimensions (in.) A
	600-TB	600AL-TB	½–⅜	⅝
	601-TB	601AL-TB	¾–½	19/32
	602-TB	602AL-TB	1–½	19/32
	603-TB	603AL-TB	1–¾	19/32
	604-TB	604AL-TB	1¼–½	19/32
	605-TB	605AL	1¼–¾	19/32
	606-TB	606AL	1¼–1	11/16
	607	607AL	1½–½	15/16
	608	608AL	1½–¾	15/16
	609	609AL	1½–1	1 3/32
	610-TB	610AL	1½–1¼	27/32
	611-TB	611AL	2–½	23/32
	612	612AL	2–¾	1 1/16
	613	613AL	2–1	1 1/16
	614-TB	614AL	2–1¼	1 1/16
	615-TB	615AL	2–1½	27/32

Rigid and intermediate metal conduit fittings

Reducing washers

Reducing washers

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

			Dimensions (in.)	
	Cat. no.	Size (in.)	A	B
Diagram	3700	¾–⅜	1⅜	45/64
	3701	¾–½	1⅜	⅞
	3702-TB	1–⅜	1⅝	45/64
	3703	1–½	1⅝	⅞
	3704	1–¾	1⅝	1 3/32
	3705-TB	1¼–⅜	2	45/64
	3706-TB	1¼–½	2	⅞
	3707	1¼–¾	2	1 3/32
	3708	1¼–1	2	1 23/64
	3709	1½–⅜	2¼	45/64
	3710	1½–½	2¼	⅞
	3711	1½–¾	2¼	1 3/32
	3712	1½–1	2¼	1 23/64
	3713	1½–1¼	2¼	1 23/32
	3714	2–½	2¾	⅞
	3715-TB	2–¾	2¾	1 3/32
	3716	2–1	2¾	1 23/64
	3717	2–1¼	2¾	1 23/32
	3718	2–1½	2¾	1 31/32

Rigid and intermediate metal conduit fittings

Conduit straps for threaded rigid metal conduit and intermediate metal conduit

1275 Series
1276AL Series

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

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

Standard material
1275 Series
- Malleable Iron

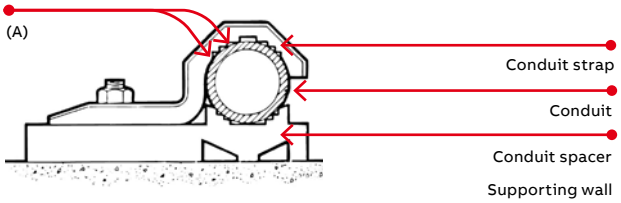
1276AL Series
- All copper-free aluminum

Standard finish
1275 Series
- Hot dipped galvanized

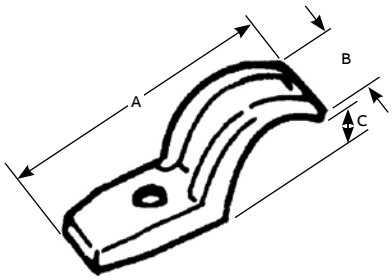
1276AL Series
- As cast

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

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



Pipe straps – Malleable iron or aluminum

Diagram	Cat. no. Mal. iron	Cat. no. Alum.	Size (in.)	Dimensions (in.) A	B	C	Screw size (in.)
	1275†	1275AL	⅜	1 15/16	19/32	¼	¼
	1276†	1276AL†	½	2 11/32	23/32	½	¼
	1277†	1277AL†	¾	2 11/16	21/32	⅝	¼
	1278†	1278AL†	1	3 3/32	11/16	13/16	¼
	1279-TB†	1279AL†	1¼	4⅛	13/16	29/32	5/16
	1280†	1280AL	1½	4½	15/16	1 17/32	⅜
	1281	1281AL	2	5 3/16	1⅛	1¼	7/16
	1282*	1282AL	2½	5 15/16	1½	1¾	½
	1283*	1283AL	3	6 11/16	1⅝	2 3/16	½
	1284	1284AL	3½	7 19/32	1¾	2¾	⅝
	1285*	1285AL	4	8 5/16	1⅞	2 13/16	⅝
	1286**	1286AL**	4½	9 3/16	1 15/16	2 15/16	⅝
	1287	1287AL	5	9 15/16	2	3¼	⅝
	1288	1288AL	6	11½	2 7/16	4⅛	⅝

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

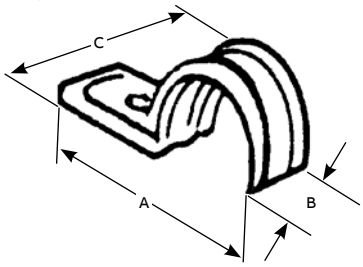
* May be used with EMT of same size
† Not snap-on type
UL not applicable
** Not CSA Certified

Rigid and intermediate metal conduit fittings

Conduit straps for threaded rigid metal conduit and intermediate metal conduit

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

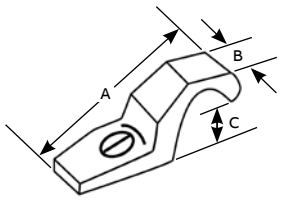
Pipe straps – Steel

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

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

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

Corrosion-resistant PVC-coated rigid conduit straps

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

UL not applicable

Rigid and intermediate metal conduit fittings

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

01 1350 Series
1350AL Series

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

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

Standard material

1350 Series
- Malleable Iron

1350AL Series
- Copper-free aluminum

Standard finish

1350 Series
- Hot-dipped galvanized

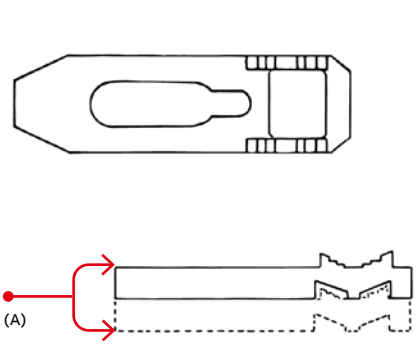
1350AL Series
- As cast

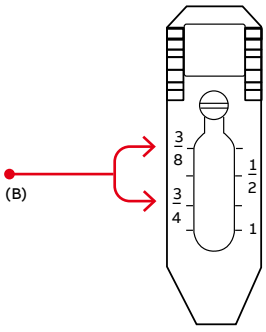
Range
- ½ in. through 6 in. conduit

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

01

Diagrams



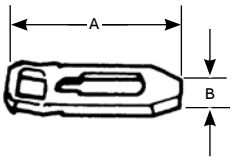


Rigid and intermediate metal conduit fittings

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

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

Pipe spacers

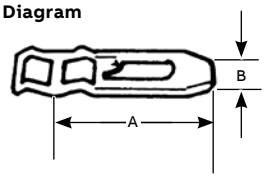
	Cat. no.			Screw	Dimensions (in.)	
	Mal. Iron	Alum.	Size (in.)	size	A	B
Diagram	1350	1350AL	⅜, ½, ¾, 1	#7	3	⅞
	1351	1351AL	1¼–1½–2	#12	5	1³⁄₁₆
	1352	1352AL	2½–3	#12	9⁹⁄₁₆	1¾
	1353	1353AL	3½–4	#14	7⁹⁄₁₆	2

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

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

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

Pipe spacers – PVC coated

		Conduit	Screw	Dimensions (in.)	
	Cat. no.	size (in.)	size	A	B
Diagram	1350CR	½–¾–1	#7	3	⅞
	1351CR	1¼–1½–2	#12	5	⅜
	1352CR	2½–3	#12	6⁹⁄₁₆	1¾
	1353CR	3½–4	#14	7⁹⁄₁₆	2

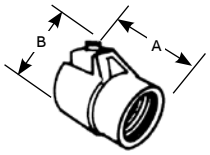
Conforms to CEC Rule 12-012 (5)
UL not applicable

Rigid and intermediate metal conduit fittings

Couplings, beam clamps and conduit supports

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

Tite-Bite combination couplings – Armoured cable to threaded rigid

			Dimensions (in.)	
	Cat. no.	Size (in.)	A	B
Diagram	440-TB	½	1⅝	1 27/32
	441	¾	1¾	2⅛
	442-TB	1	2	2 17/32

Steel. Includes bolts.

Beam clamps – Adjustable

Cat. no.	Description
700TB	Fits flange 2¾ in. –7⅜ in.
703*	Special bolt and 3 nuts

* Not CSA Certified

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

Conduit supports

Cat. no.	Size (in.)
690TB	½
691TB	¾
692TB	1
693TB	1¼

Stainless steel conduit and fittings

Stainless steel conduit

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

- Available in both type 304 and marine-grade type 316 stainless steel
- Features standard NPT threads for easy installation
- Each 10-ft. length of conduit ships with one stainless steel coupling included
- Couplings also sold separately
- Exceeds requirements for washdown applications
- Food- and potable water-safe
- Satisfies plant-cleanliness mandates from HACCP, FDA and various state agencies
- Meets ASTM A-321/SA-312 Standards
- UL®/cUL Listed

Typical applications

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

Stainless steel rigid conduit

Cat. no.	Trade size (in.)	Weight (lbs./ft.)	Std. pkg. qty. ft.
Type 304 stainless steel conduit with coupling			
COND1/2SS	½	0.82	1,500
COND3/4SS	¾	1.09	1,000
COND1SS	1	1.61	700
COND11/4SS	1¼	2.18	350
COND11/2SS	1½	2.63	300
COND2SS	2	3.50	200
COND21/2SS	2½	5.59	120
COND3SS	3	7.27	90
COND4SS	4	10.08	40

Cat. no.	Trade size (in.)	Weight (lbs./ft.)	Std. pkg. qty. ft.
Type 316 stainless steel conduit with coupling			
COND1/2SST	½	0.82	1,500
COND3/4SST	¾	1.09	1,000
COND1SST	1	1.61	700
COND11/4SST	1¼	2.18	350
COND11/2SST	1½	2.63	300
COND2SST	2	3.50	200
COND21/2SST	2½	5.59	120
COND3SST	3	7.27	90
COND4SST	4	10.08	40

Note: Conduit sold in 10-ft. lengths. Each 10-ft. length ships with one coupling.

Stainless steel conduit and fittings

Stainless steel couplings and nipples

Withstand corrosive environments and meet stringent sanitary requirements.

Stainless steel couplings – Type 304

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

Stainless steel couplings – Type 316

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

Conduit Nipples

Cat. no.	Trade size (in.)	Length (in.)	Weight (lbs./ea.)	Std. pkg. qty.
Type 304 Stainless Steel Nipples				
NPL1/2X12SS	½	12	0.79	25
NPL3/4X12SS	¾	12	1.05	25
NPL1X12SS	1	12	1.54	20
NPL11/4X12SS	1¼	12	2.02	16
NPL11/2X12SS	1½	12	2.49	8
NPL2X12SS	2	12	3.30	9
Type 316 Stainless Steel Nipples				
NPL1/2X12SST	½	12	0.79	25
NPL3/4X12SST	¾	12	1.05	25
NPL1X12SST	1	12	1.54	20
NPL11/4X12SST	1¼	12	2.02	16
NPL11/2X12SST	1½	12	2.49	8
NPL2X12SST	2	12	3.30	9

Stainless steel conduit and fittings

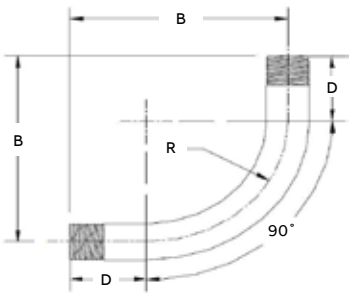
Stainless steel elbows

Withstand corrosive environments and meet stringent sanitary requirements.

Standard radius elbows 90°

Cat. no.	Trade size (in.)	Radius “R”	Offset “C”*	Straight end “D”*	Weight (lbs./ea.)	Std. pkg. qty.
Type 304 stainless steel elbows						
ELL1/2SS	½	4	5.50	1.50	0.64	25
ELL3/4SS	¾	4.5	6.00	1.50	0.92	25
ELL1SS	1	5.75	7.63	1.88	1.69	20
ELL11/4SS	1¼	7.25	9.25	2.00	2.66	8
ELL11/2SS	1½	8.25	10.25	2.00	3.67	8
ELL2SS	2	9.5	11.50	2.00	5.31	6
Type 316 stainless steel elbows						
ELL1/2SST	½	4	5.50	1.50	0.64	25
ELL3/4SST	¾	4.5	6.00	1.50	0.92	25
ELL1SST	1	5.75	7.63	1.88	1.69	20
ELL11/4SST	1¼	7.25	9.25	2.00	2.66	8
ELL11/2SST	1½	8.25	10.25	2.00	3.67	8
ELL2SST	2	9.5	11.50	2.00	5.31	6

Diagram



* Minimum

Stainless steel conduit and fittings

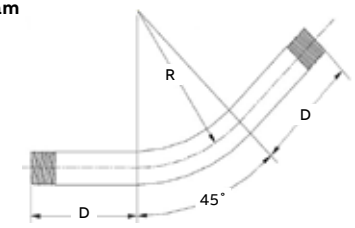
Stainless steel elbows

Withstand corrosive environments and meet stringent sanitary requirements.

Standard radius elbows 45°

Cat. no.	Trade size (in.)	Radius “R”	Straight end “D”*	Weight (lbs./ea.)	Std. pkg. qty.
Type 304 stainless steel elbows					
ELL1/245SS	½	4	1.50	0.42	25
ELL3/445SS	¾	4.5	1.50	0.61	25
ELL145SS	1	5.75	1.88	1.11	20
ELL11/445SS	1¼	7.25	2.00	1.70	16
ELL11/245SS	1½	8.25	2.00	2.30	16
ELL245SS	2	9.5	2.00	3.10	9
Type 316 stainless steel elbows					
ELL1/245SST	½	4	1.50	0.42	25
ELL3/445SST	¾	4.5	1.50	0.61	25
ELL145SST	1	5.75	1.88	1.11	20
ELL11/445SST	1¼	7.25	2.00	1.70	16
ELL11/245SST	1½	8.25	2.00	2.30	16
ELL245SST	2	9.5	2.00	3.10	9

Diagram



* Minimum

Couplings and accessories

Stainless steel drain adapter and ball valve

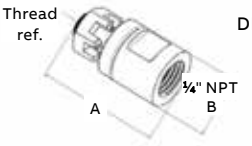
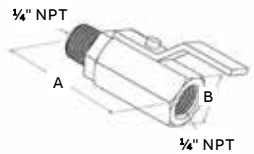
In the electrical system of a food and beverage facility and elsewhere, the T&B® Fittings stainless steel drain adapter provides the means to drain accumulated moisture or small debris from stainless steel electrical enclosures for non-threaded connections.

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

Certifications

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

Stainless steel drain adapter and ball valve

	Cat. no	Description	Trade size (in.)	Dim. (in.) A	Dim. (in.) B
⅜" Thread ref. 	FG-DA-3/8	Drain adapter	⅜	1.38	0.75
	DBV-1/4	Ball valve	¼	2.03	0.75

Conduit bodies and covers

Overview

Application

Conduit bodies are installed in conduit systems to:

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

Features

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

Materials

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

Finish

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

Listings/compliances

- UL Standard: 514A, 514B
- Fed. Spec: W-C-586D
- CSA Standard: C22.2 No. 18

Conduit bodies and covers

Quick reference

Conduit bodies quick reference

Shape	Type	Hub size (in.) ½	¾	1	1¼	1½	2	2½	3	3½	4
LB	BlueKote® form 7	LB17	LB27	LB37	LB47	LB57	LB67	LB77	LB87	LB97	LB107
	BlueKote form 8*	LB18	LB28	LB38	LB448	LB58	LB68	LB78	LB888	LB98	LB108
	Series 35	LB50M	LB75M-TB	LB100M	LB125M	LB150M	LB200M	LB250M	LB300M	LB350M	LB400M
	Sand cast aluminum form 7	LB17SA	LB27SA	LB37SA	LB47SA	LB57SA	LB67SA	LB77SA	LB87SA	LB97SA	LB107SA
	Sand cast aluminum form 9	LB19SA	LB29SA	LB39SA	LB49SA	LB59SA	LB69SA	LB789SA	LB889SA	LB989SA	LB1089SA
	Stainless steel form 8**	LB18SST	LB28SST	LB38SST	LB48SST	LB58SST	LB68SST	–	–	–	–
LU	BlueKote form 7	LU17	LU27	LU37	LU47	LU57	LU67	–	–	–	–
	Sand cast aluminum form 7	LU17SA	LU27SA	LU37SA	LU47SA	LU57SA	LU67SA	–	–	–	–
	Sand cast aluminum form 9	LU19SA	LU29SA	LU39SA	LU49SA	LU59SA	LU69SA	–	–	–	–
	Stainless steel form 8**	LU18SST	LU28SST	LU38SST	LU48SST	LU58SST	LU68SST	–	–	–	–
T	BlueKote form 7	T17	T27	T37	T47	T57	T67	T77	T87	T97	T107
	BlueKote form 8*	T18	T28	T38-TB	T448	T58	T68	T78	T88-TB	–	–
	Series 35	T50M	T75M	T100M	T125M	T150M	T200M	T250M	T300M	T350M	T400M
	Sand cast aluminum form 7	T17SA	T27SA	T37SA	T47SA	T57SA	T67SA	T77SA	T87SA	T97SA	T107SA
	Sand cast aluminum form 9	T19SA	T29SA	T39SA	T49SA	T59SA	T69SA	T789SA	T889SA	T989SA	T1089SA
	Stainless steel form 8**	T18SST	T28SST	T38SST	T48SST	T58SST	T68SST	–	–	–	–
C	BlueKote form 7	C17	C27	C37	C47	C57	C67	C77-TB	C87	–	–
	BlueKote form 8*	C18	C28	C38	C448	C58-TB	C68	C78	C88	–	–
	Series 35	C50M	C75M-TB	C100M	C125M	C150M	C200M	C250M-TB	C300M	C350M	C400M
	Sand cast aluminum form 7	C17SA	C27SA	C37SA	C47SA	C57SA	C67SA	–	–	–	–
	Sand cast aluminum form 9	C19SA	C29SA	C39SA	C49SA	C59SA	C69SA	C789SA	C889SA	C989SA	C1089SA
LL	BlueKote form 7	LL17	LL27	LL37	LL47	LL57	LL67	LL77	LL87	LL97	LL107
	BlueKote form 8*	LL18	LL28	LL38	LL448	LL58	LL68	LL78	LL888	–	–
	Series 35	LL50M	LL75M	LL100M	LL125M	LL150M	LL200M	LL250M	LL300M	LL350M	LL400M
	Sand cast aluminum form 7	LL17SA	LL27SA	LL37SA	LL47SA	LL57SA	LL67SA	–	–	–	–
	Sand cast aluminum form 9	LL19SA	LL29SA	LL39SA	LL49SA	LL59SA	LL69SA	LL789SA	LL889SA	LL989SA	LL1089SA

* ½" through 1¼" have (2) mounting holes; 1½" through 4" have (4) mounting holes
** With covers, gaskets and screws

Conduit bodies and covers

Quick reference

Conduit bodies quick reference (continued)

Shape	Type	Hub size (in.) ½	¾	1	1¼	1½	2	2½	3	3½	4
 LR	BlueKote form 7	LR17	LR27	LR37	LR47	LR57	LR67	LR77	LR87	LR97	LR107
	BlueKote form 8*	LR18	LR28	LR38	LR448	LR58	LR68	LR78	LR888	–	–
	Series 35	LR50M	LR75M	LR100M	LR125M	LR150M	LR200M	LR250M	LR300M	LR350M-TB	LR400M
	Sand cast aluminum form 7	LR17SA	LR27SA	LR37SA	LR47SA	LR57SA	LR67SA	–	–	–	–
	Sand cast aluminum form 9	LR19SA	LR29SA	LR39SA	LR49SA	LR59SA	LR69SA	LR789SA	LR889SA	LR989SA	LR1089SA
 L	BlueKote® form 7	L17-TB	L27-TB	L37-TB	L47-TB	L57-TB	L67-TB	–	–	–	–
 TB	BlueKote form 7	TB17-TB	TB27	TB37	TB47	TB57	TB67	–	–	–	–
	BlueKote form 8*	TB18	TB28	TB38	TB448	TB58	TB68	–	–	–	–
	Series 35	TB50M	TB75M	TB100M	TB125M	TB150M	TB200M	–	–	–	–
	Sand cast aluminum form 7	TB17SA	TB27SA	TB37SA	TB47SA	TB57SA	TB67SA	–	–	–	–
	Sand cast aluminum form 9	TB19SA	TB29SA	TB39SA	TB49SA	TB59SA	TB69SA	–	–	–	–
	Stainless steel form 8**	TB18SST	TB28SST	TB38SST	TB48SST	TB58SST	TB68SST	–	–	–	–
 X	BlueKote form 7	X17	X27	X37	X47	X57	X67	–	–	–	–
	BlueKote form 8*	X18	X28	X38	X448	X58	X68	–	–	–	–
	Series 35	X50M	X75M	X100M	X125M	X150M	X200M	–	–	–	–
	Sand cast aluminum form 7	X17SA	X27SA	X37SA	X47SA	X57SA	X67SA	–	–	–	–
	Sand cast aluminum form 9	X19SA	X29SA	X39SA	–	–	–	–	–	–	–
 E	BlueKote form 7	E17	E27	E37	–	–	–	–	–	–	–
 TA	BlueKote form 7	TA17	TA27	TA37	TA47	TA57	TA67	–	–	–	–

* ½" through 1¼" have (2) mounting holes; 1½" through 4" have (4) mounting holes
** With covers, gaskets and screws

Conduit bodies and covers

Covers and gaskets

Replacement covers and gaskets

		Hub size (in.)									
	Shape	**½**	**¾**	**1**	**1¼**	**1½**	**2**	**2½**	**3**	**3½**	**4**
Stamped	Form 7 steel*	170S	270S	370S	470S	570S	670S	870S	870S	970S	970S
	Form 8 steel*	180	280	380	480	580	680STB	880	880	980	980
	Form 7 aluminum*	170SA	270SA	370SA	470SA	570SA	670SA	870SA	870SA	970SA	970SA
	Form 9 aluminum	190SA**	290SA**	390SA**	490SA**	590SA**	690SA**	889SA	889SA	989SA	989SA
	Series 35	K50S	K75S	K100S	K125S	K125S	K200S	K250S	K250S	K350S	K350S
	Form 8 stainless Steel	180SST	280SST	380SST	480SST	580SST	680SST	–	–	–	–

* Form 7 and Form 8 covers include gasket.
** For Form 9 aluminum cover including gasket, replace suffix SA with GSA (Example : 190GSA)

		Hub size (in.)									
	Shape	**½**	**¾**	**1**	**1¼**	**1½**	**2**	**2½**	**3**	**3½**	**4**
Sand cast	Form 7 iron*	170F	270F	370F	470F	570F	670F	870F	870F	970F	970F
	Form 8 iron*	180F	280F	380F	480F	580F	680F	880F	880F	980F	980F
	Form 7 aluminum*	170FSA	270FSA	370FSA	470FSA	570FSA	670FSA	870FSA	870FSA	970FSA	970FSA
	Series 35	K50M	K75M	K100M	K125M	K125M	K200M	K250M	K250M	K350M	K350M

* Form 7 and Form 8 covers include gasket.

		Hub size (in.)									
	Shape	**½**	**¾**	**1**	**1¼**	**1½**	**2**	**2½**	**3**	**3½**	**4**
Gasket	Form 7*	GASK571	GASK572	GASK573	GASK574	GASK575	GASK576	GASK578	GASK578	GASK579	GASK579
	Form 8*	GASK581N	GASK582N	GASK583N	GASK584N	GASK585N	GASK586N	GASK588N	GASK588N	GASK589N	GASK589N
	Form 9*	GASK1941	GASK1942	GASK1943	GASK1944	GASK1945	GASK1946	GASK808N	GASK808N	GASK809N	GASK809N
	Series 35	GK50N	GK75N	GK100N	GK125-150N	GK125-150N	GK200N	GK250-300N	GK250-300N	GK350-400N	GK350-400N

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

Conduit bodies and covers

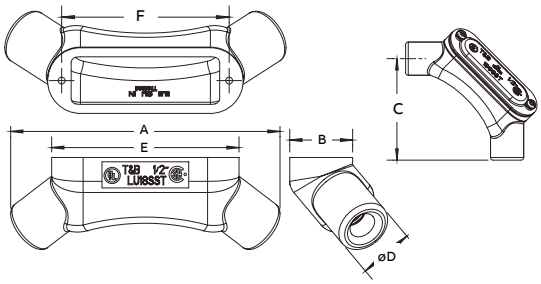
Type 316 stainless steel form 8

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

LU Form 8 conduit bodies with covers

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	F	Cu. in.
LU18SST	½	6.210	1.450	3.825	1.125	4.320	3.700	5.5
LU28SST	¾	6.981	1.645	4.245	1.500	4.921	4.300	8.5
LU38SST	1	8.261	1.850	5.050	1.700	5.625	5.000	14.5
LU48SST	1¼	9.923	2.200	5.975	2.200	6.730	5.810	26.5
LU58SST	1½	11.549	2.813	7.000	2.450	7.938	7.125	45.0
LU68SST	2	13.989	3.820	8.500	2.900	9.797	9.125	116.5

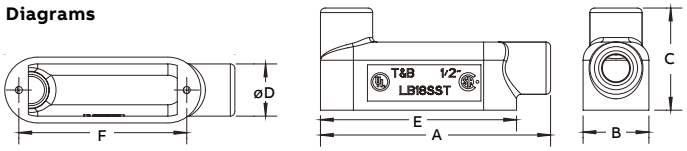
Diagrams



LB Form 8 conduit bodies with covers

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	F	Cu. in.
LB18SST	½	5.070	1.450	2.250	1.150	4.320	3.700	5.8
LB28SST	¾	5.671	1.645	2.530	1.400	4.921	4.300	8.0
LB38SST	1	6.563	1.850	2.913	1.750	5.625	5.000	13.0
LB48SST	1¼	7.734	2.200	3.315	2.200	6.730	5.810	23.0
LB58SST	1½	8.992	2.813	3.800	2.450	7.938	7.125	44.0
LB68SST	2	11.000	3.820	4.810	2.900	9.797	9.125	88.0
LB78SST	2½	14.098	6.136	5.000	4.250	10.875	–	220
LB888SST	3	14.177	6.215	5.000	4.250	10.875	–	220
LB108SST	4	16.749	7.259	6.313	5.513	13.462	–	420

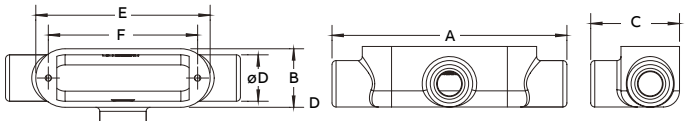
Diagrams



T Form 8 conduit bodies with covers

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	F	Cu. in.
T18SST	½	5.820	1.450	2.200	1.150	4.320	3.700	5.5
T28SST	¾	6.420	1.645	2.395	1.400	4.921	4.300	9.0
T38SST	1	7.500	1.850	2.850	1.750	5.625	5.000	13.5
T48SST	1¼	8.738	2.200	2.950	2.200	6.730	5.810	24.0
T58SST	1½	10.046	2.813	3.867	2.450	7.938	7.125	45.0
T68SST	2	12.204	3.820	5.070	2.900	9.797	9.125	88.0
T78SST	2.5	15.659	4.575	6.561	4.250	10.875	–	220
T888SST	3	15.817	4.575	6.640	4.250	10.875	–	220
T108SST	4	18.473	5.535	8.037	5.513	13.462	–	420

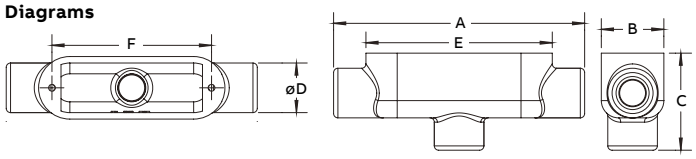
Diagrams



TB Form 8 conduit bodies with covers

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	F	Cu. in.
TB18SST	½	5.820	1.450	2.250	1.150	4.320	3.700	5.5
TB28SST	¾	6.420	1.645	2.530	1.400	4.921	4.300	9.0
TB38SST	1	7.500	1.850	2.975	1.750	5.625	5.000	13.5
TB48SST	1¼	8.484	2.200	3.319	2.200	6.730	5.810	24.0
TB58SST	1½	10.046	2.813	3.854	2.450	7.938	7.125	45.0
TB68SST	2	12.129	3.820	4.810	2.900	9.797	9.125	88.0

Diagrams



Conduit bodies and covers

Pre-assembled form 7 BlueKote®

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

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

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

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

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

Cat. no.	Trade size (in.)	Pre-assembled products
C17CG-TB	½	C17 body, cover and gasket
C27CG-TB	¾	C27 body, cover and gasket
C37CG-TB	1	C37 body, cover and gasket
C47CG-TB	1¼	C47 body, cover and gasket
C57CG-TB	1½	C57 body, cover and gasket
C67CG-TB	2	C67 body, cover and gasket
LB17CG-TB	½	LB17 body, cover and gasket
LB27CG-TB	¾	LB27 body, cover and gasket
LB37CG-TB	1	LB37 body, cover and gasket
LB47CG-TB	1¼	LB47 body, cover and gasket
LB57CG-TB	1½	LB57 body, cover and gasket
LB67CG-TB	2	LB67 body, cover and gasket
LL17CG-TB	½	LL17 body, cover and gasket
LL27CG-TB	¾	LL27 body, cover and gasket
LL37CG-TB	1	LL37 body, cover and gasket
LL47CG-TB	1¼	LL47 body, cover and gasket
LL57CG-TB	1½	LL57 body, cover and gasket
LL67CG-TB	2	LL67 body, cover and gasket
LR17CG-TB	½	LR17 body, cover and gasket
LR27CG-TB	¾	LR27 body, cover and gasket
LR37CG-TB	1	LR37 body, cover and gasket
LR47CG-TB	1¼	LR47 body, cover and gasket
LR57CG-TB	1½	LR57 body, cover and gasket
LR67CG-TB	2	LR67 body, cover and gasket
T17CG-TB	½	T17 body, cover and gasket
T27CG-TB	¾	T27 body, cover and gasket
T37CG-TB	1	T37 body, cover and gasket
T47CG-TB	1¼	T47 body, cover and gasket
T57CG-TB	1½	T57 body, cover and gasket
T67CG-TB	2	T67 body, cover and gasket
TB17CG-TB	½	TB17 body, cover and gasket
TB27CG-TB	¾	TB27 body, cover and gasket
TB37CG-TB	1	TB37 body, cover and gasket
TB47CG-TB	1¼	TB47 body, cover and gasket
TB57CG-TB	1½	TB57 body, cover and gasket
TB67CG-TB	2	TB67 body, cover and gasket
X17CG-TB	½	X17 body, cover and gasket
X27CG-TB	¾	X27 body, cover and gasket
X37CG-TB	1	X37 body, cover and gasket
X47CG-TB	1¼	X47 body, cover and gasket
X57CG-TB	1½	X57 body, cover and gasket
X67CG-TB	2	X67 body, cover and gasket

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

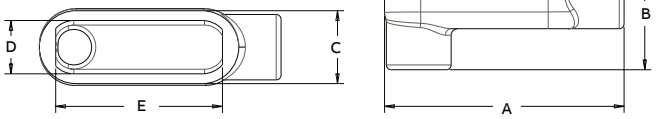
Conduit bodies and covers

Sand cast aluminum form 7

LB Sand cast aluminum form 7 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
LB17SA	½	4.63	2.19	1.41	1.03	3.19	4.2
LB27SA	¾	5.25	2.47	1.59	1.22	3.81	6.8
LB37SA	1	6.22	2.88	1.75	1.38	4.56	11.0
LB47SA	1¼	6.59	3.34	2.19	1.81	5.03	19.5
LB57SA	1½	6.97	3.59	2.44	2.06	5.44	25.6
LB67SA	2	8.13	4.25	3.06	2.44	6.41	51.2
LB77SA	2½	10.56	5.19	4.25	3.63	8.38	100.4
LB87SA	3	10.66	6.03	4.25	3.63	8.38	126.2
LB97SA	3½	11.06	6.69	5.25	4.44	10.25	219.0
LB107SA	4	12.81	7.72	5.25	4.44	10.25	247.1

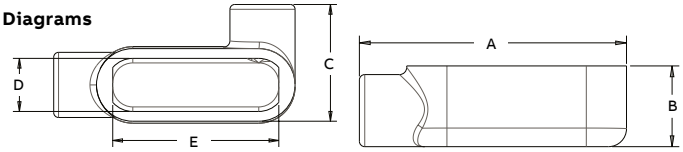
Diagrams



LR Sand cast aluminum form 7 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
LR17SA	½	4.38	1.41	2.25	1.03	3.19	4.5
LR27SA	¾	5.31	1.63	2.44	1.19	3.81	7.5
LR37SA	1	6.22	1.88	2.78	1.38	4.56	11.2
LR47SA	1¼	6.63	2.31	3.22	1.81	5.03	20.3
LR57SA	1½	6.97	2.56	3.47	2.06	5.44	27.8
LR67SA	2	8.13	3.19	4.13	2.44	6.25	54.0

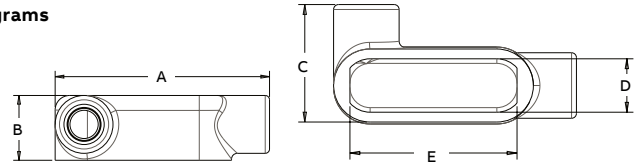
Diagrams



LL Sand cast aluminum form 7 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
LL17SA	½	4.38	1.41	2.25	1.03	3.19	4.5
LL27SA	¾	5.31	1.63	2.44	1.19	3.81	7.2
LL37SA	1	6.22	1.88	2.78	1.38	4.56	11.5
LL47SA	1¼	6.63	2.31	3.22	1.81	5.03	20.0
LL57SA	1½	6.97	2.56	3.47	2.06	5.44	28.0
LL67SA	2	8.13	3.19	4.13	2.44	6.25	54.2

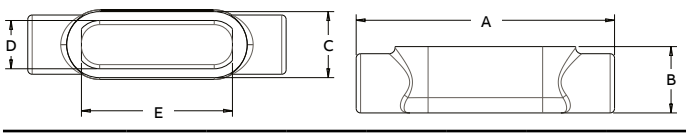
Diagrams



C Sand cast aluminum form 7 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
C17SA	½	5.44	1.41	1.41	1.00	3.19	4.8
C27SA	¾	6.16	1.63	1.59	1.22	3.81	7.5
C37SA	1	7.22	1.88	1.75	1.38	4.56	11.8
C47SA	1¼	7.63	2.31	2.19	1.91	5.03	19.8
C57SA	1½	8.00	2.56	2.44	2.06	5.44	27.8
C67SA	2	9.16	3.22	3.06	2.44	6.25	53.2

Diagrams



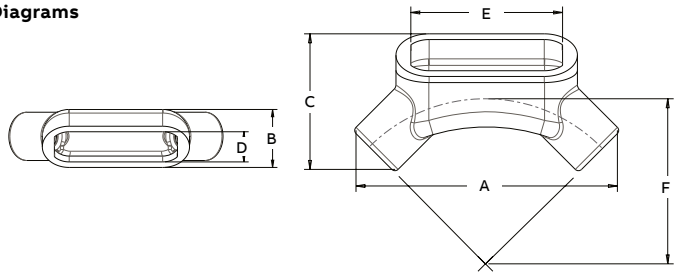
Conduit bodies and covers

Sand cast aluminum form 7

LU® Sand cast aluminum form 7 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	F	Cu. in.
LU17SA	½	5.53	1.50	2.88	1.03	3.19	3.31	5.1
LU27SA	¾	6.28	1.72	3.22	1.22	3.81	3.75	8.7
LU37SA	1	7.34	1.97	3.78	1.38	4.56	4.41	13.4
LU47SA	1¼	8.38	2.47	4.34	1.81	5.03	4.91	23.8
LU57SA	1½	8.97	2.72	4.53	2.06	5.44	5.19	29.6
LU67SA	2	10.78	3.44	5.41	2.44	6.25	6.25	59.4

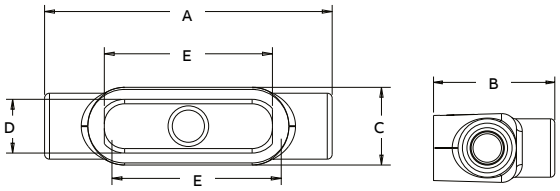
Diagrams



TB Sand cast aluminum form 7 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
TB17SA	½	5.44	2.59	1.50	1.03	3.19	5.6
TB27SA	¾	6.16	2.84	1.66	1.19	3.81	9.0
TB37SA	1	7.22	3.28	1.78	1.38	4.56	13.1
TB47SA	1¼	7.63	3.34	2.19	1.81	5.03	19.3
TB57SA	1½	8.00	3.59	2.44	2.06	5.44	25.0
TB67SA	2	9.16	4.25	3.06	2.44	6.41	51.6

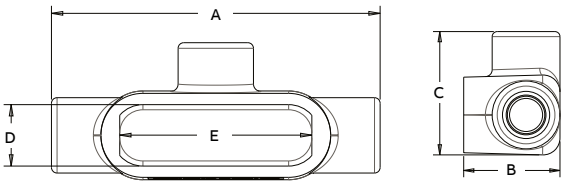
Diagrams



T Sand cast aluminum form 7 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
T17SA	½	5.44	1.78	2.28	1.03	3.19	5.5
T27SA	¾	6.16	2.00	2.59	1.22	3.81	9.1
T37SA	1	7.22	2.28	3.22	1.38	4.56	15.5
T47SA	1¼	7.63	2.31	3.22	1.81	5.03	20.1
T57SA	1½	8.00	2.56	3.47	2.06	5.44	27.1
T67SA	2	9.16	3.19	4.09	2.44	6.41	51.0
T77SA	2½	12.13	3.63	5.81	3.63	8.38	104.6
T87SA	3	12.28	4.41	5.91	3.63	8.38	135.2
T97SA	3½	14.44	4.91	6.94	4.44	10.25	230.0
T107SA	4	14.50	5.41	6.97	4.44	10.25	260.3

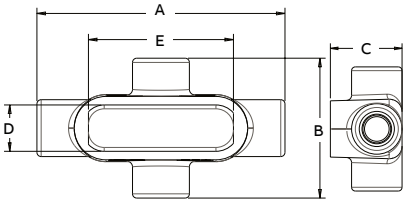
Diagrams



X Sand cast aluminum form 7 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
X17SA	½	5.44	3.06	1.78	1.03	3.19	5.8
X27SA	¾	6.16	3.44	2.00	1.22	3.81	10.3
X37SA	1	7.22	4.22	2.28	1.38	4.56	16.4
X47SA	1¼	7.63	4.25	2.31	1.81	5.03	21.3
X57SA	1½	8.00	4.50	2.56	2.06	5.44	28.6
X67SA	2	9.16	5.16	3.19	2.44	6.41	53.5

Diagrams



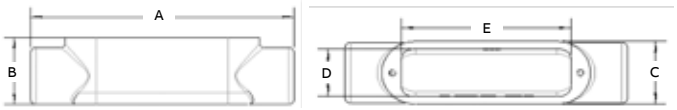
Conduit bodies and covers

Sand cast aluminum form 9

C Sand cast aluminum form 9 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
C19SA	½"	5.858	1.5	1.392	1.018	3.307	4.5
C29SA	¾"	6.48	1.78	1.56	1.186	3.898	7.5
C39SA	1"	7.578	1.975	1.756	1.382	4.559	11.5
C49SA	1¼"	8.593	2.315	2.2	1.826	5.197	22.3
C59SA	1½"	9.238	2.8	2.5	1.788	5.892	34
C69SA	2"	11.578	3.56	3.189	2.349	8.11	80.0
C789SA	2½"	15.522	4.575	5.04	4.29	10.827	212
C889SA	3"	15.68	4.575	5.04	4.29	10.827	216
C989SA	3½"	18.452	5.535	6.338	5.538	13.438	408
C1089SA	4"	18.498	5.535	6.339	5.538	13.438	440

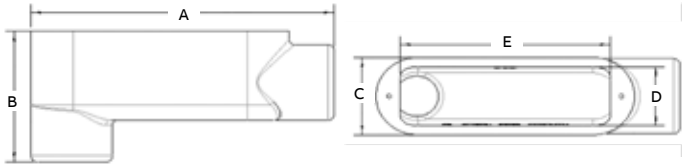
Diagrams



LB Sand cast aluminum form 9 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
LB19SA	½"	5.034	2.231	1.392	1.018	3.307	4.5
LB29SA	¾"	5.64	2.62	1.56	1.186	3.898	7.5
LB39SA	1"	6.569	2.984	1.756	1.382	4.55	11.5
LB49SA	1¼"	7.767	3.344	2.2	1.826	5.197	22.3
LB59SA	1½"	8.209	3.829	2.5	2.1	5.906	34
LB69SA	2"	10.533	4.605	3.228	2.388	7.941	80.0
LB789SA	2½"	13.961	6.011	5.04	4.29	10.827	212
LB889SA	3"	14.04	6.215	5.04	4.29	10.827	216
LB989SA	3½"	16.751	7.236	6.339	5.576	13.437	408
LB1089SA	4"	16.774	7.259	6.339	5.573	13.438	440

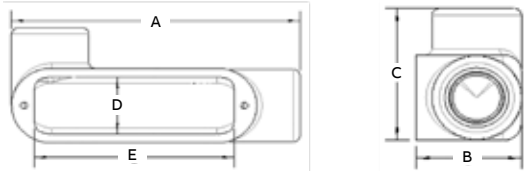
Diagrams



LL Sand cast aluminum form 9 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
LL19SA	½"	5.034	1.5	2.213	1.018	3.28	4.5
LL29SA	¾"	5.64	1.78	2.4	1.186	3.898	7.5
LL39SA	1"	6.569	1.975	2.765	1.382	4.55	11.5
LL49SA	1¼"	7.564	2.315	3.229	1.826	5.197	22.3
LL59SA	1½"	8.591	2.8	3.529	2.126	5.906	34
LL69SA	2"	10.714	3.56	4.234	2.349	8.11	80.0
LL789SA	2½"	13.961	4.575	6.601	4.29	10.827	212
LL889SA	3"	14.04	4.575	6.68	4.29	10.827	216
LL989SA	3½"	16.563	5.535	8.04	5.577	13.437	408
LL1089SA	4"	16.774	5.535	8.063	5.577	13.438	440

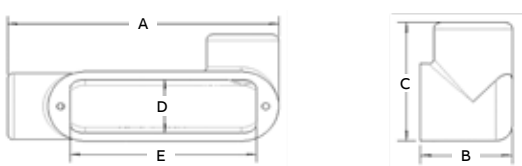
Diagrams



LR Sand cast aluminum form 9 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
LR19SA	½"	5.034	1.5	2.213	1.018	3.28	4.5
LR29SA	¾"	5.64	1.78	2.4	1.186	3.898	7.5
LR39SA	1"	6.569	1.975	2.765	1.382	4.55	11.5
LR49SA	1¼"	7.564	2.315	3.229	1.826	5.197	22.3
LR59SA	1½"	8.591	2.8	3.529	2.126	5.906	34
LR69SA	2"	10.714	3.56	4.234	2.349	8.11	80.0
LR789SA	2½"	13.961	4.575	6.601	4.29	10.827	212
LR889SA	3"	14.04	4.575	6.68	4.29	10.827	216
LR989SA	3½"	16.563	5.535	8.04	5.577	13.437	408
LR1089SA	4	16.774	5.535	8.063	5.577	13.438	440

Diagrams



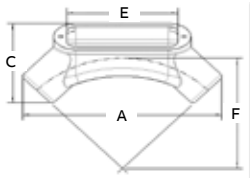
Conduit bodies and covers

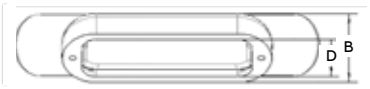
Form 9 sand cast aluminum

LU Sand cast aluminum form 9 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Radius	Cu. in.
LU19SA	½	6.21	2.701	1.5	1.018	3.28	4.415	5.3
LU29SA	¾	6.97	3.047	1.698	1.186	3.898	4.92	8.0
LU39SA	1	8.276	3.651	2.02	1.445	4.559	6.143	14.0
LU49SA	1¼	9.902	4.266	2.362	1.826	5.29	7.666	30.8
LU59SA	1½	10.256	5.127	2.609	2.126	5.906	8.214	41.0
LU69SA	2	13.968	6.153	3.421	2.815	7.941	8.5	97.0

Diagrams

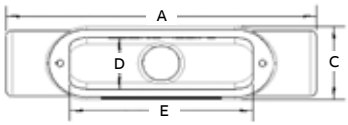


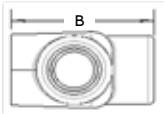


TB Sand cast aluminum form 9 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
TB19SA	½	5.958	2.596	1.556	1.018	3.307	6.3
TB29SA	¾	6.6	2.84	1.715	1.186	3.898	9.3
TB39SA	1	7.644	3.284	1.756	1.382	4.559	14.0
TB49SA	1¼	8.788	3.344	2.2	1.826	5.197	22.0
TB59SA	1½	9.996	3.604	2.5	1.784	5.883	34.8
TB69SA	2	11.578	4.605	3.189	2.815	8.11	80.5

Diagrams

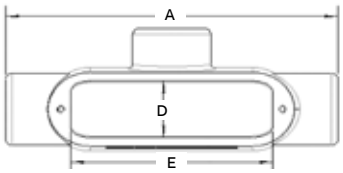


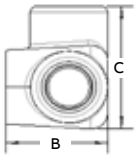


T Sand cast aluminum form 9 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
T19SA	½	5.958	1.775	2.393	1.078	3.307	6.3
T29SA	¾	6.455	2	2.591	1.185	3.925	9.3
T39SA	1	7.578	2.275	2.765	1.382	4.559	14.0
T49SA	1¼	8.593	2.315	3.229	1.826	5.197	22.0
T59SA	1½	9.243	2.8	3.529	2.126	5.906	34.8
T69SA	2	11.578	3.56	4.234	2.815	8.11	80.5
T789SA	2½	15.522	4.575	6.601	4.25	10.827	175
T889SA	3	15.68	4.575	6.68	4.25	10.827	236
T989SA	3½	18.452	5.535	8.04	5.539	13.437	435
T1089SA	4	18.498	5.535	8.063	5.539	13.438	450

Diagrams

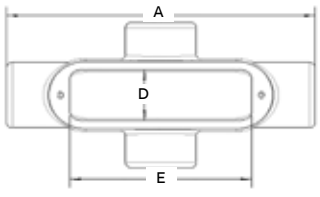


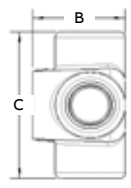


X Sand cast aluminum form 9 conduit bodies

Cat. no.	Hub size (in.)	Dimensions (in.) A	B	C	D	E	Cu. in.
X19SA	½	5.958	1.775	3.094	1.018	3.28	6.3
X29SA	¾	6.61	2	3.37	1.186	3.898	9.3
X39SA	1	7.578	2.275	3.774	1.382	4.559	14.0

Diagrams



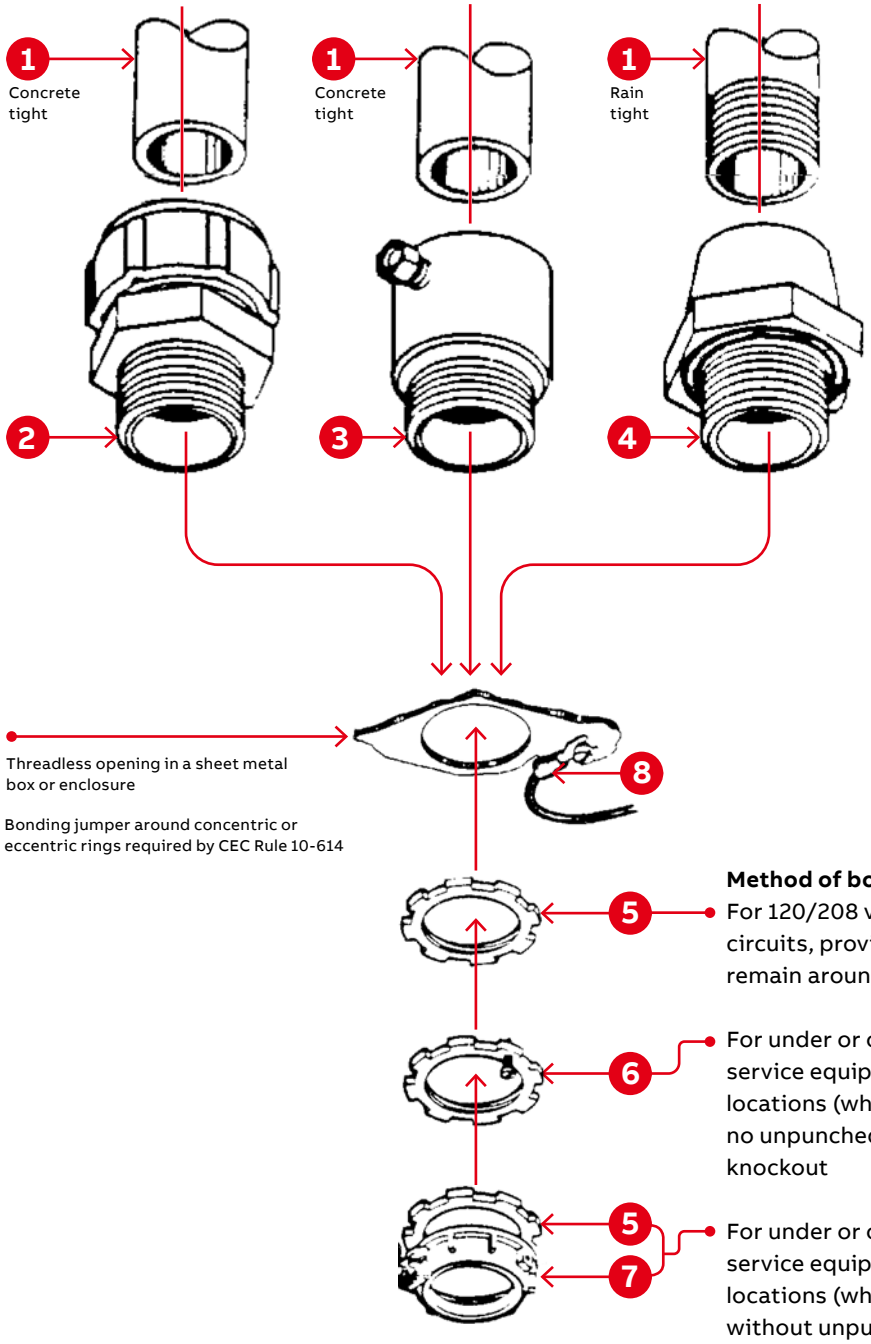


Rigid and intermediate metal conduit fittings

Methods of bonding and grounding

(1) Threaded or threadless rigid metal conduit or intermediate metal conduit
(2) Series 8123 or 8124 threadless fittings
(3) Series 8125 set screw fitting
(4) Series 370 or H050-TB sealing hub (Bullet Hubs)
(5) Series 140 locknuts
(6) Series 106 bonding locknut
(7) Series 3870 bonding & grounding bushing
(8) Sta-Kon® or Color-Keyed® lug

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



Method of bonding

For 120/208 volt or 120/240 volt circuits, provided no unpunched rings remain around the knockout

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

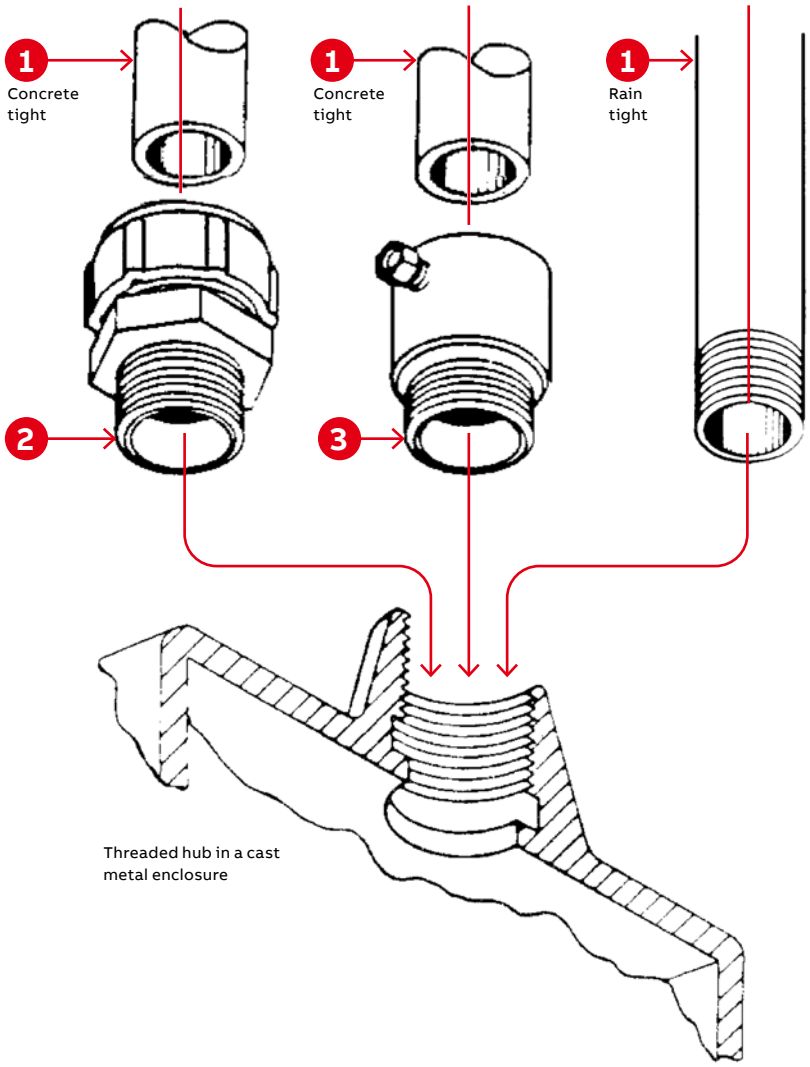
For under or over 250 volt circuits, service equipment and hazardous locations (where applicable) with or without unpunched rings around the knockout

Rigid and intermediate metal conduit fittings

Methods of bonding and grounding

(1) Threaded or threadless rigid metal conduit or intermediate metal conduit
(2) Series 8123 threadless fitting
(3) Series 8125 set screw fitting

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



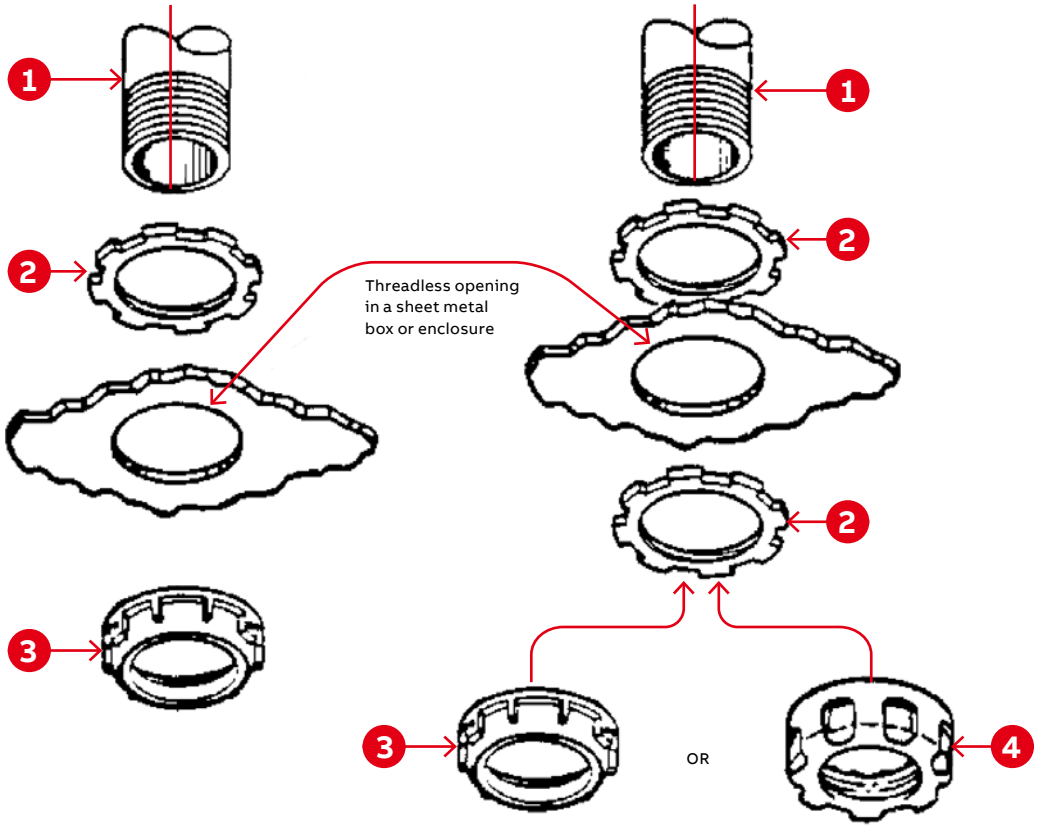
Methods of bonding
For:
(1) 120/208 or 120/240 volt circuits (CEC 10-610)
(2) Over 250 volt circuits (CEC 10-610)
(3) Service equipment (CEC 10-604)
(4) Hazardous locations 18-074 (where applicable)
18-124 (Class I, Zone 1)
18-160 (Class I, Zone 2)
18-218 (Class II, Division 1)
18-268 (Class II, Division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

Rigid and intermediate metal conduit fittings

Methods of bonding and grounding

(1) Threaded rigid metal conduit or intermediate metal conduit
(2) Series 142 locknuts
(3) Series 122 bushing metallic
(4) Series 222 bushing plastic
(5) Series 106 bonding locknut
(6) Series 3650 bonding wedge

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



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

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

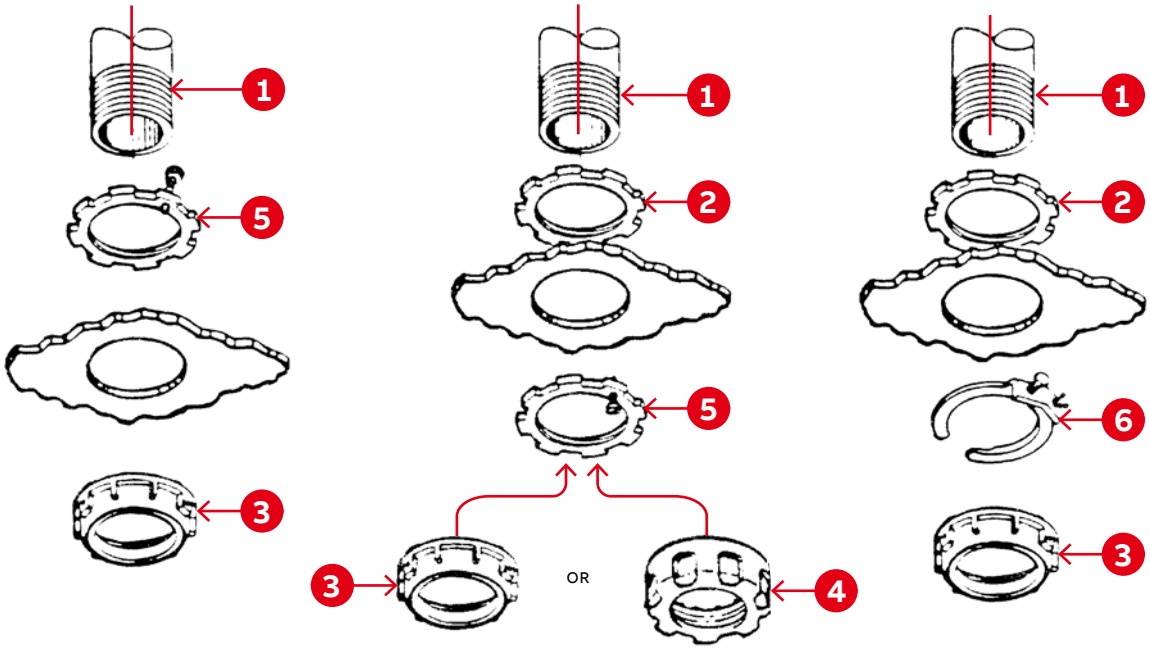
Method of bonding for over 250 volt circuits, e.g. 600/347 volt systems and those operating over 600 volts (other than service equipment).

Rigid and intermediate metal conduit fittings

Methods of bonding and grounding

(1) Threaded rigid metal conduit or intermediate metal conduit
(2) Series 142 locknuts
(3) Series 122 bushing metallic
(4) Series 222 bushing plastic
(5) Series 106 bonding locknut
(6) Series 3650 bonding wedge

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



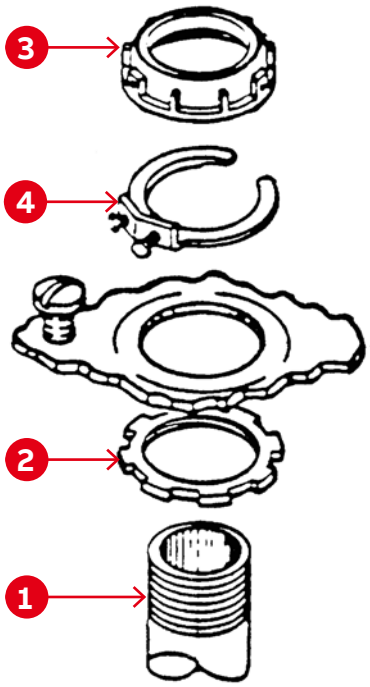
Methods of bonding
For:
(i) Over 250 volt circuit, e.g. 347/600-volt systems and those operating over 600 volts
(ii) Service equipment
(iii) Hazardous locations where applicable

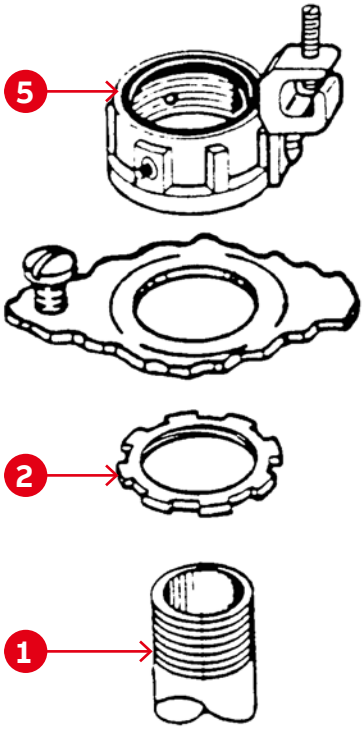
Rigid and intermediate metal conduit fittings

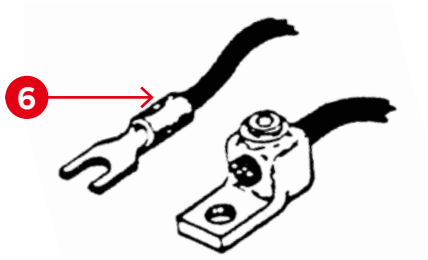
Methods of bonding and grounding

(1) Threaded rigid metal conduit or intermediate metal conduit
(2) Series 142 locknuts
(3) Series 122 bushing, metallic
(4) Series 3650 bonding wedge
(5) Series 3870 bonding and grounding bushing
(6) Typical mechanical or pressure type fitting

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







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

Note: Bonding jumper required by CEC Rule 10-614

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

Rigid and intermediate metal conduit fittings

Methods of bonding and grounding

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

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01 Bonding service equipment (CEC Rule 10-604)

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

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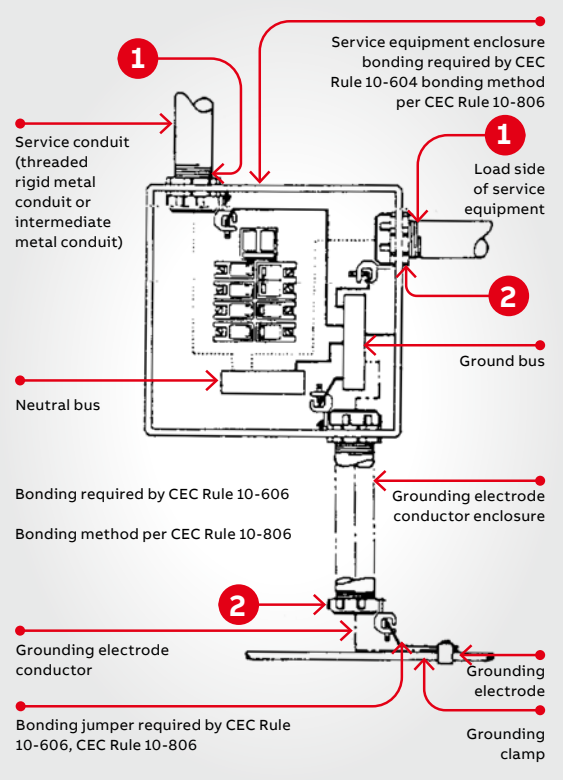
03 Install bonding jumper to assure electrical continuity between isolated sections of raceways (CEC Rule 10-614)



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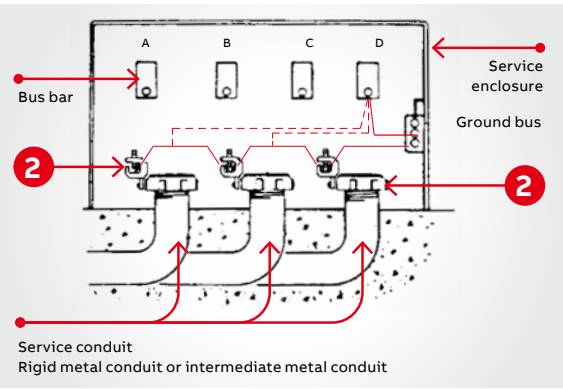

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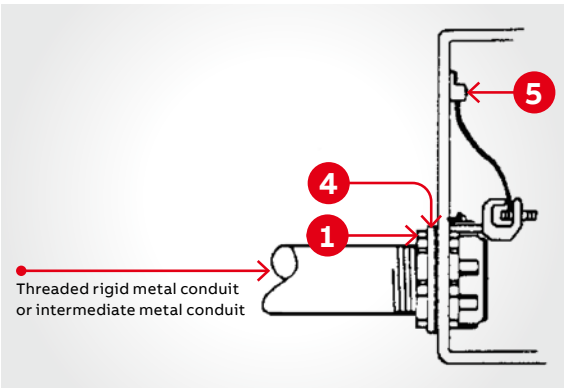

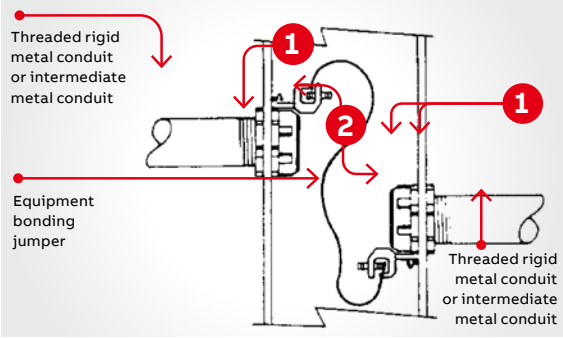

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03

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

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

(i) Installing bonding jumper around unpunched concentric or eccentric knockouts in sheet metal box or enclosure (CEC Rule 10-806)
(ii) Installing bonding jumper in hazardous locations where 'locknut bushing' or 'double locknut' type of contact is unacceptable method for bonding purposes (CEC Rule 18-074)

Rigid and intermediate metal conduit fittings

Methods of bonding and grounding

(1) Series 142 Locknut
(2) Series 106 bonding locknuts
(3) Series 122 bushing

Suitable for bonding raceway, EMT or terminating fitting to a sheet metal box or enclosure where

(a) No unpunched concentric or eccentric rings remain around the knockout

(b) Ordinary locknut is unacceptable for bonding purposes such as:

(i) Service equipment enclosures CEC Rule 10-614

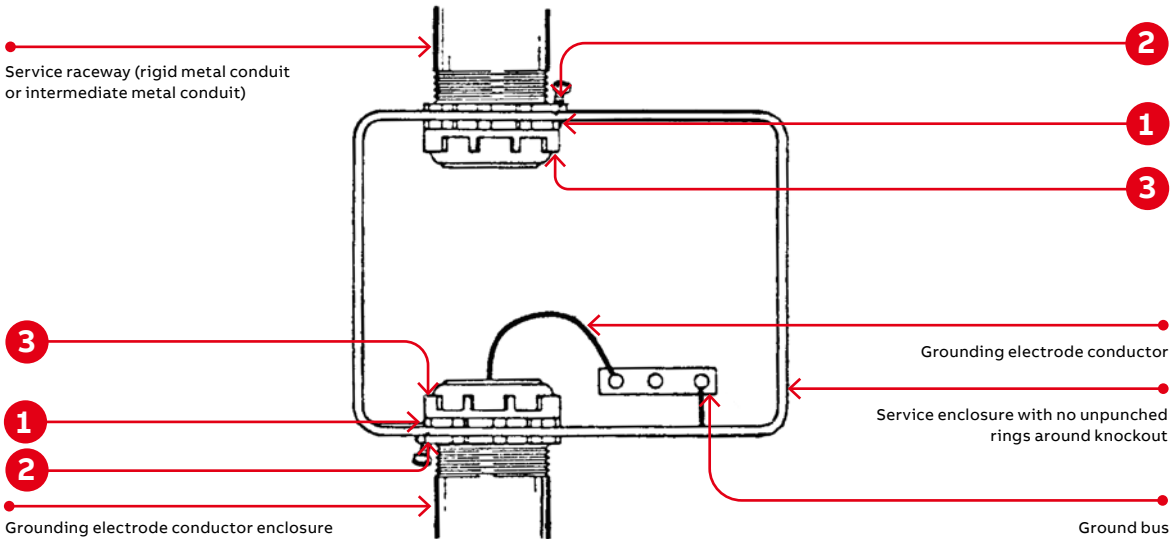
(ii) Bonding for circuits over 250 volts (where required) CEC Rule 10-614

(iii) Bonding in hazardous locations regardless of the voltage of the system CEC Rule 18-074

Suggested specifications

Bonding type locknut (series 106)

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



Rigid and intermediate metal conduit fittings

Methods of bonding and grounding

(1) Series 142 locknut
(2) Series 122 metallic bushing
(3) Series 3651 bonding and grounding wedge
(4) Pressure (crimp-type) terminal lug

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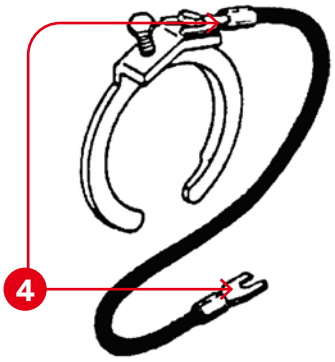
01 Series 3651 bonding and grounding wedge

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

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

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



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