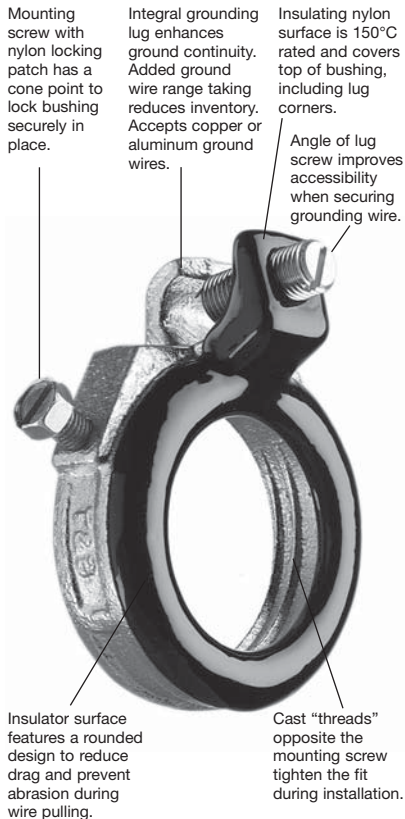


# T&B Conduit Fittings

## Rigid and Intermediate Metal Conduit Fittings



### Blackjack® — Conduit Grounding Bushings



#### Innovative design makes installation quicker, easier.

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



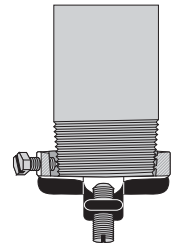
#### Innovative design improves performance.

#### The Blackjack® bushing provides superior ground continuity.

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

#### Secure grip forms lasting bond.

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



#### Reduce inventory.

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



### Blackjack® – Conduit Grounding Bushing

Lug Screw:  
 14-4: Slotted  
 14-2/0: Slotted  
 6-4/0: Internal Hex Drive

#### Standard Material/Finish

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

#### Range

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

#### Conformity

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

# T&B Conduit Fittings

## Rigid and Intermediate Metal Conduit Fittings



### Blackjack® — Conduit Grounding Bushings

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

#### Suggested Specifications

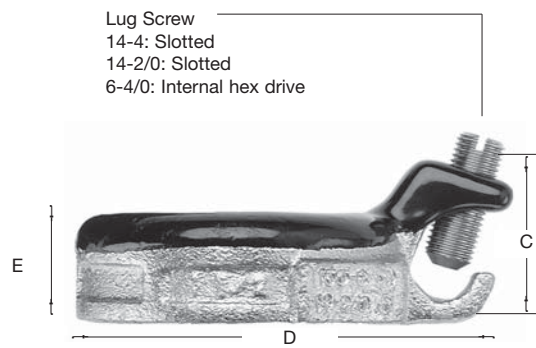
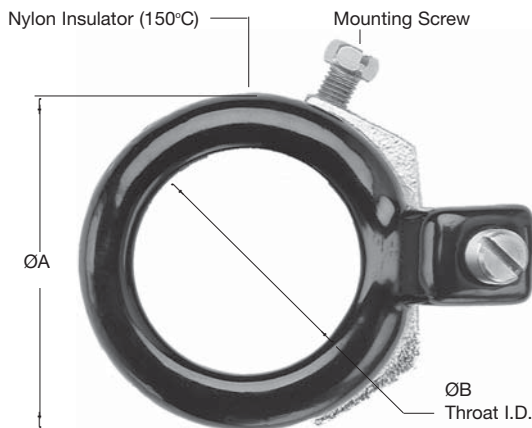
Insulated grounding and bonding bushing  
(Series BG050-BG600)

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

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

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

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



For Threaded & Threadless Rigid & IMC Conduit.

# T&B Conduit Fittings

## Rigid and Intermediate Metal Conduit Fittings



### Threaded Insulated Grounding Bushing

#### Application

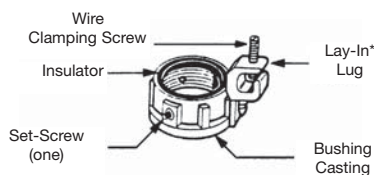
- For quick installation of bonding jumper to multiple metal conduits (Rigid and IMC).
- Designed to bush conductors and prevent insulation damage.

#### Standard Material / Finish

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

#### Features

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



### Threaded Insulated Grounding Bushing



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

Temperature rating 150°C.

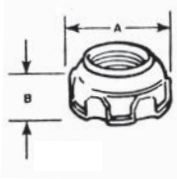
Meets Coast Guard Regulation CG293

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

\*Contact customer service for copper lay in lug

# T&B Conduit Fittings

## Rigid and Intermediate Metal Conduit Fittings



Nylon insulated  
metallic bushings

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

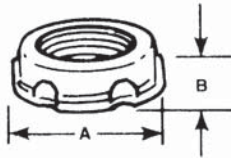
The Canadian Electric Code 10-906 (2) calls for protection of ungrounded conductors by means of smoothly rounded insulating surfaces at the entrance to raceways, pull boxes, junction boxes, etc. T&B insulated throat fittings, recognizable by the distinctive trademarked blue insulating liner in the throat,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

### Insulated Throat Fittings

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

† Not CSA Certified

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



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

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

### Metallic Bushings



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

\* Not U.L. Listed or CSA Certified

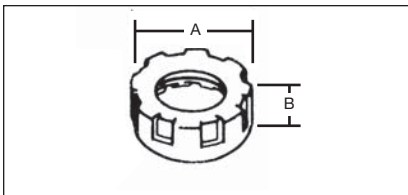
For Dura-Plate™ finish, add prefix 040- to Cat. No. Consult Customer Service for details.

# T&B Conduit Fittings

## Rigid and Intermediate Metal Conduit Fittings



### Plastic Insulating Bushings



**All Plastic Insulating Bushings**

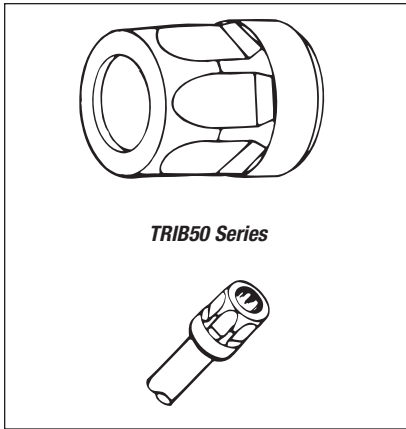
*Impact-resistant plastic insulation. These bushings have ribs for gripping when installing. Perfect threads for easy thread on. U.L. Listed 105°C. NPT threaded.*

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

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

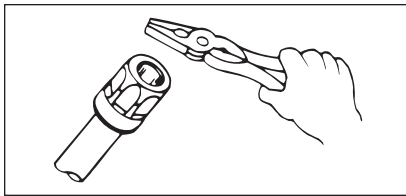
# T&B Conduit Fittings

## Rigid and Intermediate Metal Conduit Fittings

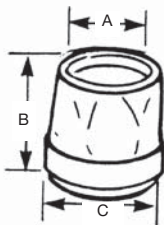
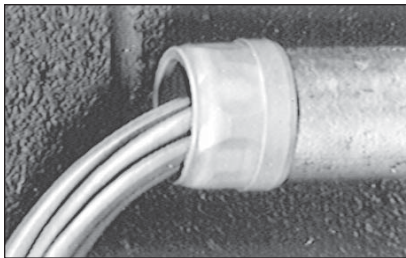


TRIB50 Series

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



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



### Insulating Bushing

(For Threadless Rigid Conduit and Intermediate Metal Conduit)

#### Application

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

#### Features

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

#### Standard Material

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

#### Standard Finish

As molded.

#### Range

1/2" through 4" conduit

#### Conformity

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

### Insulated Metallic Bushing

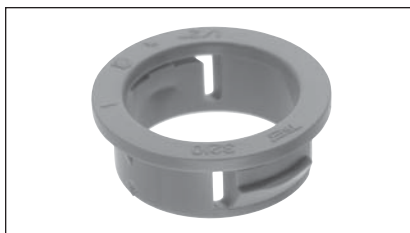


Cat. No.	Size	Dimensions (in.)		
		A	B	C
TRIB-50	1/2"	19/32	1-9/32	1-1/16
TRIB-75	3/4"	25/32	1-25/64	1-1/4
TRIB-100	1"	1	1-1/2	1-9/16
TRIB-125	1-1/4"	1-5/16	1-5/8	1-59/64
TRIB-150	1-1/2"	1-17/32	1-21/32	2-11/64
TRIB-200	2"	1-31/32	1-13/16	2-11/16
TRIB-250	2-1/2"	2-23/64	2	3-1/4
TRIB-300	3"	2-59/64	2-7/32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

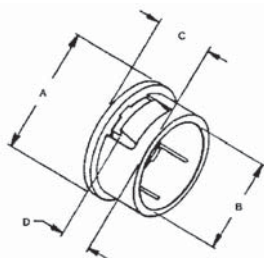
I.M.C. sizes 1/2" thru 4"  
U.L. Rated flame retardant 94V-1.

# T&B Conduit Fittings

## Rigid and Intermediate Metal Conduit Fittings



3210 Series



*One-piece knockout bushing quickly snaps into outlet box, switch box, or other enclosure left vacant by wiring modifications or maintenance changes. Provides smooth, rounded insulation surface for easy wire pulling. Easily installed by hand, they are available to fit 1/2" through 2" knockouts. U.L. Listed 105°C. High impact thermoplastic.*



*Slip over wires—insert into bushing—snaps into place*

*High dielectric nylon, 105°C.*

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

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

### Knockout Bushings

#### Application

- To bush knockout openings in metal boxes or enclosures.

#### Features

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

#### Standard Material

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

#### Standard Finish

As molded.

#### Range

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

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

#### Conformity

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



### Knockout Bushing

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

\* Per U.L. and NEMA standards.

Material: Thermoplastic

Flammability classification of 94V-1 Per UL 94

Service temperature: -40°C to 105°C.

### INSULINER® Sleeves



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

Oxygen index >28°