

## Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

### Metal Clad Cable, Armored Cable and Flexible Metal Conduit

#### Armored Cable (Type AC) — Ref. NEC Article 320

National Electrical Code defines type AC armored cable as, "A fabricated assembly of insulated conductors in a flexible metallic enclosure."

**ACT** Indicates an armored cable employing conductors having thermoplastic (Type T) insulation.

**AC** Indicates an armored cable employing conductors having rubber insulation of code grade.

**ACH** Indicates an armored cable employing conductors having rubber insulation of the heat resistant (75° C) grade.

**ACHH** Indicates an armored cable employing conductors having rubber insulation of the heat resistant (90° C) grade.

**ACU** Indicates an armored cable employing conductors having rubber insulation of latex grade.

**"L"** Used as a suffix, it indicates that a lead covering has been applied over the conductor assembly.

All armored cables may employ copper or aluminum or copperclad aluminum conductors with the following sizes and are rated for 600 volts or less:

No. 14 AWG to No. 1 AWG Copper

No. 12 AWG to No. 1 AWG Aluminum or Copperclad Aluminum

Type AC cables except ACL carry an internal bonding strip of copper or aluminum in intimate contact with the armor for its entire length. Armored cable can be used for both exposed or concealed locations. With lead-covered conductors (Type ACL), the cable can be embedded in masonry or concrete and can be used in damp locations or where exposed to oil.

Armored cable is not permitted in locations where it will be subjected to physical damage or corrosive fumes. Armored cable cannot be used for direct burial in earth.

With minor exceptions, armored cable is also not permitted to be used in hoists or elevators, storage battery rooms, any hazardous locations, in commercial garages and in theaters or similar locations.

Codes require that cable shall be supported with straps or staples without damaging conductors and also limit the minimum bend radius to 5 times the diameter of type AC cable. Certain precautions are prescribed in code where cable is installed through joist rafters or similar wood members.

According to NEC 320 where armored cable is terminated, a fitting is required to protect conductors from abrasion. In addition, a bushing is required between the conductors and armor. Design of fitting has to be such that the insulating bushing is visible for inspection. Bushing is not required with lead-covered cables when properly installed.

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

1. NEC Article 320...Armored Cable (Type AC Cable)
2. UL 4, ANSI C33.9...Safety Standards for Armored Cable
3. UL 514B, Safety Standards for Outlet Boxes and Fittings
4. A-A-50552...Federal Specification. Fittings for Cable, Power, Electrical and Conduit, Metal, Flexible
5. NEMA FB-1...Standards Publication. Fittings & Supports for Conduit and Cable Assemblies
6. CEC Section 12-700...Wiring Methods (Armored Cable)
7. CSA C22.2 No. 51...Safety Standards for Armored Cables
8. CSA C22.2 No. 18...Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

#### NOTE

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

## Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

### Metal Clad Cable, Armored Cable and Flexible Metal Conduit — continued

#### Flexible Metal Conduit — Ref. NEC Article 348

Flexible metal conduit can be used for exposed or concealed work in dry locations. It can be used for wet locations provided conductors within are lead covered or other approved type.

Flexible metal conduit cannot be used underground or embedded in poured concrete or aggregate. With rubber covered conductors, the conduit cannot be exposed to oil, gasoline or other materials having a deteriorating effect on rubber.

With minor exceptions use of flexible metal conduit is not permitted in hoists, in storage battery rooms and in any hazardous locations. Use of flexible metal conduit is restricted to systems under 600 volts.

According to NEC Article 350-5, flexible metal conduit no longer than six feet and containing circuit conductors protected by overcurrent device rated for 20 amps or less is suitable as a grounding means provided, it is terminated in fittings approved for the purpose.

Flexible metal conduit longer than six feet is permitted to be used as a grounding means provided the conduit and the fitting are approved for the purpose. To date, there is no flexible metal conduit approved for the purpose by the Underwriters Laboratories.

In Class I & II, Division 2 hazardous areas, the conduit itself cannot be used as the grounding means. A bonding jumper must be installed in accordance with NEC Section 250.102. Flexible metal conduit is available with steel or aluminum armor in trade size  $\frac{5}{8}$ " to 4". With few exceptions where  $\frac{5}{8}$ " and  $\frac{3}{4}$ " trade sizes are used, Code prohibits use of conduit less than d" trade size. Bends in concealed work are restricted to 360 degrees total. No angle connectors are permitted in concealed raceway installations.

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

1. NEC Article 348...Flexible Metal Conduit
2. UL 1, ANSI C33.92...Safety Standards for Flexible Metal Conduit
3. UL 514B, Safety Standards for Outlet Boxes and Fittings
4. A-A-50552...Federal Specification. Fittings for Cable, Power, Electrical and Conduit, Metal Flexible
5. WW-C-566...Federal Specification. Conduit, Metal, Flexible
6. NEMA FB1...Standards Publication. Fittings and Supports for Conduit and Cable Assemblies
7. CEC 12-1100...Wiring Method (Rigid & Flexible Conduit)
8. CSA C22.2 No. 56...Safety Standards for Flexible Metallic Conduit and Liquid-Tight Flexible Metal Conduit
9. CSA C22.2 No. 18...Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

### Suggested Specifications for Armored Cable and Flexible Metal Conduit Fittings



Series 3110  
Armored Cable Connector  
& Flexible Metal Conduit



Series 390  
Anti-Short Bushing

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

*Armored Cable...UL 4/ANSI  
C33.9/CSA 22.2 No. 51*

*Flexible Metal Conduit...UL 1/ANSI  
C33.92/WW-C-566/CSA 22.2 No. 56*

*Type of cable used and conductors within flexible metal conduit shall be suitable for conditions of use and location.*

- Where approved armored cable or flexible metal conduit is used as an equipment grounding conductor, terminating fitting used shall be of the grounding type as manufactured by Thomas & Betts, series 3110

- Where armored cable or flexible metal conduit terminates into a threadless or threaded opening, it shall be assembled with approved fittings; fittings shall be of malleable iron/steel construction, electro zinc plated inside outside, equipped with nylon insulated throat and shall be of angled saddle type as manufactured by Thomas & Betts, series 3110. Direct bearing screw type fittings shall not be used
- Suitable bushing as manufactured by Thomas & Betts, series 422 or 390, shall be provided between the conductors and armor

## Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings



### TITE-BITE® Connectors



3110 Series

**Super-Fast Installation!**

**Up to 2X faster than standard connectors!**

**Very High Cable Pull-Out Resistance!**

**Now UL Listed for New Interlocked Armor Ground Type Metal Clad Cable (MCI-A)!**

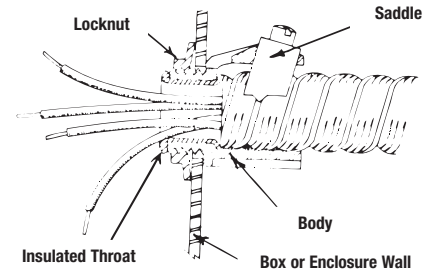
#### Application

- To connect and effectively bond metal clad cables, armored cable or flexible metal conduit to a box or an enclosure

#### Features

- Provided with an angled saddle designed to:
  - Firmly secure conduit in place without damaging cable armor (Mechanical holding power of angled wedge assembly increases with increased strain.)
  - Provide high quality bond between conduit or cable and is unaffected by vibrations
- Insulated throat protects conductors during and after installation and reduces wire pull effort
- Heat-curved insulator in throat:
  - Better protects conductors due to funnel entry
  - Reduces pulling force due to rotating design
  - Won't pull out
- Locknuts designed to provide effective bond between connector and box or enclosure, will not vibrate loose
- Designed with fewer installing screws — reduces installation time and labor cost
- Armor stop with viewing window
- Rugged all steel or malleable iron construction
- Suitable as a grounding means per NEC Article 348 for flexible metal conduit, NEC Article 320 for armored cable and NEC Article 330 for metal clad cable
- Suitable for hazardous location use per Class 1 Division 2 NEC 501.10 (b)(2)

#### Typical Installation



#### Standard Material/Finish

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

#### Listings/Compliances

UL	514B
CSA	C22.2 No. 18
NEMA	FB1
UL	(UL File No. 23018)
CSA	(LR-2884, LR-4484)

RANGE	HUB SIZE	CONDUIT SIZE	CABLE OPENING
3110 Series Straight Connectors	½" to 4" NPS	¾" to 4"	.470" to 4.560"
3130 Series 90° Connectors	½" to 4" NPS	¾" to 4"	.470" to 4.560"

(All hubs provided with straight pipe threads NPS)

# T&B® Fittings

## Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

Designed to resist vibration and strain!

### TITE-BITE® Connectors — Nylon-Insulated



T&B Fittings



- Super-fast installation and extreme pull-out resistance due to angled saddle design
- Steel or malleable iron construction
- Tough, insulated lining and Tite-Bite® design make these connectors a “must” when conductors are subject to vibration or strain
- Look for the unique T&B blue color to ensure the highest quality fitting

CAT. NO.	CABLE OPENING (IN.)		TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.)		
	MAX.	MIN.			A†	B	C
2492*°#	.500	.370	3/8"	1/2"	1 1/16"	1 1/8"	7/16"
3110-TB**°	.660	.470	3/8"	1/2"	1 1/4"	1 1/8"	7/8"
3112#°	.920	.670	1/2"	3/4"	1 1/4"	1 1/8"	7/8"
3115#	1.125	.906	3/4"	3/4"	1 5/8"	1 1/4"	1 1/16"
3117#	1.468	1.250	1"	1"	2"	1 3/4"	1 1/8"
3118***	1.750	1.562	1 1/4"	1 1/4"	2 1/4"	2"	1 1/4"
3119***	2.031	1.812	1 1/2"	1 1/2"	3 1/8"	2 3/4"	1 3/4"
3120***	2.500	2.312	2"	2"	3 3/4"	2 3/4"	1 11/16"
3121***	3.062	2.812	2 1/2"	2 1/2"	4 3/8"	3 3/4"	2 1/4"
3122***	3.562	3.312	3"	3"	5"	3 3/4"	2 1/4"
3123***††	4.060	3.620	3 1/2"	3 1/2"	—	—	—
3124***††	4.560	4.120	4"	4"	—	—	—

Material: Steel thru 3/4" trade size.

UL File No. E 23018

CSA File No. 2884

# UL Listed for Metal Clad Cable (MCI).

° UL Listed for new Interlocked Armor Ground Type Metal Clad Cable (MCI-A).

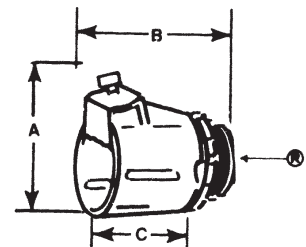
\* Good for aluminum-sheathed cable.

\*\* UL Listed for Armored Cable and Metal Clad Cable.

\*\*\* UL Listed for Flexible Metal Conduit only.

† Approximate dimension with screw at minimum height.

†† CSA not applicable.



Completely reusable!

### TITE-BITE® Connectors



- Easy to install with double-grip saddle
- 3/8" and 1/2" sizes made of formed steel, which produces uniform high quality and a smooth throat to protect conductor insulation
- 3/4" and larger size are malleable iron

CAT. NO.	CABLE OPENING (IN.)		TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.)		
	MAX.	MIN.			A†	B	C
300-TB**°	.660	.470	3/8"	1/2"	1 1/4"	1 1/8"	7/16"
301-TB*°	.781	.460	3/8"	1/2"	1 1/8"	1 1/8"	7/8"
302-TB#°	.920	.670	1/2"	3/4"	1"	1 1/16"	1 1/16"
304#	1.093	.906	3/4"	3/4"	1 1/8"	1 1/16"	1 1/16"
306#	1.468	1.250	1"	1"	2 1/8"	1 3/4"	1 1/4"
308***	1.750	1.562	1 1/4"	1 1/4"	2 3/8"	2 1/2"	1 1/4"
310***	2.031	1.812	1 1/2"	1 1/2"	2 3/4"	2 3/8"	1 3/4"
312***	2.500	2.312	2"	2"	3 1/8"	2 3/8"	1 11/16"
314***	3.062	2.812	2 1/2"	2 1/2"	3 3/8"	3 1/8"	2 1/4"
316***	3.562	3.312	3"	3"	4 1/8"	3 3/8"	2 1/4"
318***††	4.060	3.620	3 1/2"	3 1/2"	—	—	—
320***††	4.560	4.120	4"	4"	—	—	—

Material: Steel thru 1/2" trade size.

UL File No. E 23018

CSA File No. 2884

# UL Listed for Metal Clad Cable (MCI).

° UL Listed for new Interlocked Armor Ground Type Metal Clad Cable (MCI-A).

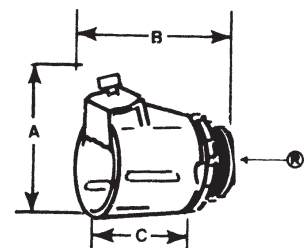
\* Not UL Listed.

\*\* UL Listed for Armored Cable and Metal Clad Cable.

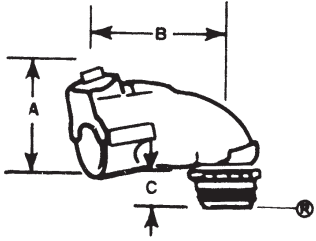
\*\*\* UL Listed for Flexible Metal Conduit only.

† Approximate dimension with screw at minimum height.

†† CSA not applicable.



## Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings



The easiest and best connector to install when making sharp bends at the enclosure or equipment!

### TITE-BITE® Connectors — 90° Angle Nylon-Insulated



- Steel or malleable iron construction
- Offers all of the advantages of the straight connector with only one screw to tighten, except in the larger sizes, which have two
- Peep hole on top provides for easy inspection of ABC bushing
- Narrow design makes it easy to install connectors in adjacent knockouts

CAT. NO.	CABLE OPENING (IN.)		TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.)		
	MAX.	MIN.			A†	B	C
3130-TB#°	.660	.470	3/8"	1/2"	1 1/32"	1 1/32"	15/16"
3132#°	.920	.670	1/2"	1/2"	1 1/8"	2 5/16"	15/16"
3135#	1.093	.906	3/4"	3/4"	2 1/8"	2 1/8"	9/16"
3137#	1.468	1.250	1"	1"	2 2/32"	2 1/8"	1/2"
3138***	1.750	1.562	1 1/4"	1 1/4"	3 5/16"	3 3/8"	9/16"
3139***	2.031	1.812	1 1/2"	1 1/2"	4	4 1/2"	1 1/16"
3140***	2.500	2.312	2"	2"	4 9/16"	5 1/8"	1 1/16"
3141***	3.062	2.812	2 1/2"	2 1/2"	6 7/32"	6	3/4"
3142***	3.562	3.312	3"	3"	7 1/32"	7 1/8"	3/4"
3143***††	4.060	3.620	3 1/2"	3 1/2"	—	—	—
3144-TB***††	4.560	4.120	4"	4"	—	—	—

UL File No. E 23018

CSA File No. 2884

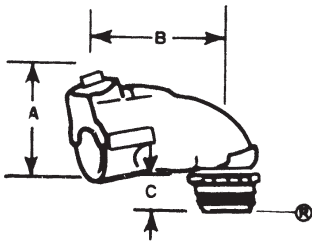
# UL Listed for Metal Clad Cable (MCI).

° UL Listed for new Interlocked Armor Ground Type Metal Clad Cable (MCI-A).

\*\*\*UL Listed for flexible metal conduit only.

† Approximate dimension with screw at minimum height.

†† CSA not applicable.



Angle clip provides secure mechanical grip that tightens under tension or vibration!

### TITE-BITE® Connectors — 90° Angle



- Throat is long enough to install in cast housing knockouts
- 3/8" and 1/2" sizes of steel construction
- 3/4" and larger sizes made of malleable iron

CAT. NO.	CABLE OPENING (IN.)		TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.)		
	MAX.	MIN.			A†	B	C
321-TB#°	.660	.470	3/8"	1/2"	1 1/32"	1 1/2"	3/8"
323#°	.920	.670	1/2"	1/2"	1 1/8"	2 1/8"	1 1/32"
325#	1.093	.906	3/4"	3/4"	2 1/8"	2 1/8"	1/2"
326-TB#	1.468	1.250	1"	1"	2 2/32"	2 1/8"	1
327-TB***	1.750	1.562	1 1/4"	1 1/4"	3 3/8"	3 3/8"	—
328***	2.031	1.812	1 1/2"	1 1/2"	4 1/8"	4 1/8"	—
329***	2.500	2.312	2"	2"	4 3/8"	4 3/32"	—
330-TB***	3.062	2.812	2 1/2"	2 1/2"	6 1/2"	6	—
331***	3.562	3.312	3"	3"	5 5/32"	7	—
332††	4.060	3.620	3 1/2"	3 1/2"	—	—	—
333††	4.560	4.120	4"	4"	—	—	—

UL File No. E 23018

CSA File No. 2884

# UL Listed for Metal Clad Cable (MCI).

° UL Listed for new Interlocked Armor Ground Type Metal Clad Cable (MCI-A).

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† Approximate dimension with screw at minimum height.

†† CSA not applicable.

# T&B® Fittings

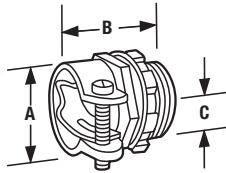
## Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings

Fits every size of armored cable, metal clad cable and flexible metal conduit!



T&B Fittings

### Squeeze Connectors — Straight



- Malleable iron or steel construction
- Catalog No. 253 is steel
- Add "I" suffix for insulated throat

CAT. NO.	INS. CAT. NO.	CABLE OPENING (IN.)		TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.)		
		MAX.	MIN.			A†	B	C
252***	—	.531	.437	3/16"	3/8"	13/16	25/32	11/32
253-TB***††	253-I-TB***††	.585	.455	3/8"	1/2"	31/32	113/64	5/8
254-TB	254-I-TB	.938	.812	1/2"	1/2"	13/32	13/8	13/32
255	255-I	1.094	.938	3/4"	3/4"	13/4	117/32	7/16
256	256-I	1.375	1.250	1"	1"	113/32	13/8	1/2
257***	257-I***	1.656	1.500	11/4"	11/4"	13/8	123/32	11/32
258***	258-I***	1.875	1.688	11/2"	11/2"	23/4	13/8	9/16
259***	259-I***	2.500	2.313	2"	2"	213/32	23/8	11/16
249***	249-I***	3.062	2.812	21/2"	21/2"	31/16	211/16	3/4
277***	277-I***	3.563	3.312	3"	3"	31/16	23/8	3/4
278-TB***††	278-I-TB***††	4.370	3.200	31/2"	31/2"	63/8	51/4	13/16
281-TB***††	281-I-TB***††	4.600	3.500	4"	4"	71/4	51/4	13/8

\*\*\* UL Listed for armored cable only. Fitting material steel.

\*\*\* UL Listed for flexible metal conduit only.

† Approximate dimension with screw at minimum height.

†† cULus Certified

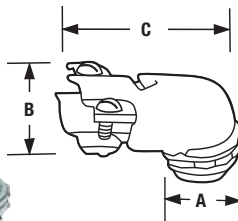
.485"–.660" cable opening range for 253-I-TB.

UL File No. E 23018

CSA File No. 2884

Only two screws to tighten!

### Squeeze Connectors — 90° Angle



- Cap lifts off simply by loosening screws partway
- 3/8" and 1/2" sizes made of steel
- 3/4" and larger sizes made of malleable iron
- Add "I" suffix for insulated throat

CAT. NO.	INS. CAT. NO.	CABLE OPENING (IN.)		TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.)		
		MAX.	MIN.			A†	B	C
266-TB	266-I-TB	.656	.406	3/8"	1/2"	11/2	113/32	11/16
272**	272-I**	.812	.688	3/8"	1/2"	13/8	13/8	—
268-TB	268-I-TB	.937	.813	1/2"	1/2"	111/16	113/16	13/8
279	279-I	1.000	.875	3/4"	3/4"	13/8	23/8	13/16
270	270-I	1.125	1.000	3/4"	3/4"	13/8	13/4	13/16
273-TB	273-I-TB	1.406	1.187	1"	1"	23/8	21/32	23/16
274***	274-I***	1.656	1.375	11/4"	11/4"	3	3	3
275***	275-I***	1.875	1.625	11/2"	11/2"	33/8	33/8	4
276***	276-I***	2.500	2.125	2"	2"	41/2	313/16	43/8
282-TB***††	282-I-TB***††	3.100	2.520	21/2"	21/2"	43/16	511/16	73/16
283-TB***††	283-I-TB***††	3.640	3.100	3"	3"	51/16	63/16	815/16
284-TB***††	284-I-TB***††	4.220	3.700	31/2"	31/2"	63/16	83/16	111/4
285-TB***††	285-I-TB***††	4.600	4.100	4"	4"	71/4	83/8	123/8

\*\*\* UL Listed for armored cable only.

\*\*\* UL Listed for flexible metal conduit only.

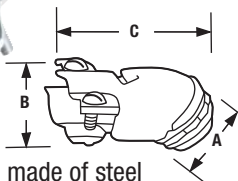
†† cULus Certified

UL File No. E23018

CSA File No. 2884

Fast and easy installation — simply loosen screws partway to lift off cap!

### Squeeze Connectors — 45° Angle



- 3/8" and 1/2" sizes made of steel
- 3/4" size made of malleable iron
- Add "I" suffix for insulated throat

CAT. NO.	INS. CAT. NO.	CABLE OPENING (IN.)		TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.)		
		MAX.	MIN.			A†	B	C
265	265-I	.656	.406	3/8"	1/2"	113/32	15/32	13/8
267	267-I	.937	.813	1/2"	1/2"	13/32	1/2	13/8
269	269-I	1.125	1.000	3/4"	3/4"	2	17/32	13/16

UL File No. E-23018

CSA File No. 2884

UL Listed for Armored Cable and Flexible Metal Conduit.

## Metal Clad Cable, Armored Cable and Flexible Metal Conduit Fittings



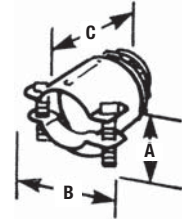
Armor-gripping saddle stays open by itself when cable is being inserted!

### Two-Screw Connectors

- Formed steel body
- Carefully round bushing

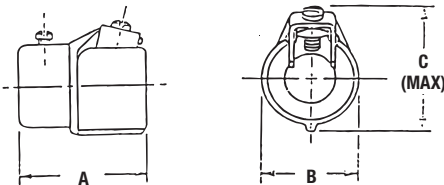
CAT. NO.	CABLE OPENING (IN.)		TRADE SIZE	K.O. SIZE	DIMENSIONS (IN.)		
	MAX.	MIN.			A	B	C
3301-TB**	.656	.250	3/8"	1/2"	3/2	1 1/16	1 1/16
3312-TB	.937	.500	1/2"	1/2"	1 1/2	1 1/8	1 1/8

\*\* UL Listed for armored cable only. UL File No. E 1383 CSA File No. 2884



TITE-BITE® design holds flexible metal cable firmly in place with a single screw!

### Adapter — EMT to Flex



CAT. NO.	SIZE FLEX TO EMT	DIMENSIONS (IN.)		
		A	B	C
503TB	1/2" - 1/2"	1 2 1/2	1 1/8	1 1/8
504	3/4" - 3/4"	1 5/8	1 1/8	2 1/8
505-TB	1" - 1"	2 1/2	2 1/8	2 3/8

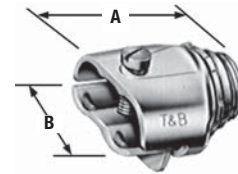
CSA File No. 8994

UL File No. E-23018

For flexible metal conduit and armored cable.

### Duplex Clamp Connector

- Malleable iron construction



CAT. NO.	K.O. SIZE	DIMENSIONS (IN.)	
		A	B
291-TB	1/2"	1 1/2"	1 1/16"

UL File No. E 1383

CSA File No. 2884

One-piece fitting couples 3/8" flexible metal conduit to 1/2" EMT!

### Combination Coupling

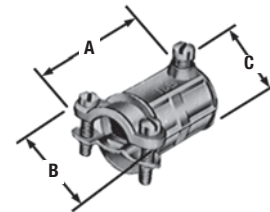


CAT. NO.	SIZE FLEX TO EMT	DIMENSIONS (IN.)		
		A	B	C
449-TB	3/8" - 1/2"	1 3/8	1 1/2	1 5/8

Cable opening: max. .656, min. .250.

UL File No. E-23018

CSA File No. 2884



Smooth plastic bushing protects conductor insulation from rough edges of armored cable and flexible metal conduit!



### Anti-Short Bushing

CAT. NO.	SIZE
390	14-2, 14-3, 12-2
391	14-4, 12-3, 6-1, and 4-1
392	12-4, 10-2, 10-3 and 2-1
393	10-4, 8-2, 8-3, and 1-1
394	8-4, 6-2, 6-3, 4-2, 4-3, and 6-4

Colorized.

CSA File No. 589

Temperature Rating: 240° F.

UL not applicable.

Fast and easy installation!

### Strap

- Elongated bolt hole makes alignment easy, even when holes in mounting surface are off center
- Snap-on design holds strap in place



CAT. NO.	SIZE
65-TB	3/8" Flex

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