

## Liquidtight Flexible Metal Conduit Fittings

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

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

Thomas & Betts offers the largest and most technologically advanced line of liquidtight fittings in the industry, including connectors for

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

**T&B Fittings**



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**Canada**  
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**Technical Services**  
Tel: 888.862.3289

**Thomas & Betts**

[www.tnb.com](http://www.tnb.com)

A-105

## Liquidtight Flexible Metal Conduit Fittings

T&B makes liquidtight fittings for demanding situations.

### Liquidtight Flexible Metal Conduit Fittings

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

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

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

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

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

**Precision Machined Rolled Threads** provide smooth, easy installations.

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

#### Revolver® Grounding Fitting

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



T&B's Heat-Curled Insulator



Competitor's Glue-In Insulator



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





## Liquidtight Flexible Metal Conduit Connectors



### Liquidtight Connectors

#### Liquidtight Flexible Metal Conduit Fittings

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

#### Features of Thomas & Betts Liquidtight Fittings include:

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



### Liquidtight Fittings for Special Applications

#### The Revolver® Externally Grounded Fitting

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

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

#### PVC-Coated Connectors

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

#### Sealing Gaskets

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

#### Chase-Style Fittings

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



### Liquidtight Flexible Non-Metallic Conduit Fittings

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

#### Bullet Fittings

- Feature one-piece construction and a captive O-ring for ease of installation
- Provide a positive seal between the conduit and the connector
- Has tapered thread hub and sealing O-ring for a tight seal to the box or other enclosure

- Are constructed of nonburning, nondripping thermoplastic for high strength chemical resistance
- Feature a smooth insulated body for maximum dielectric strength
- Have a patented, serrated finger design that provides high mechanical pullout strength
- Include a complete range of flexible, non-metallic conduits — including both smooth and corrugated varieties — to complete our XTRA FLEX® System

## Liquidtight Flexible Metal Conduit Fittings



5331 Series\*  
5231 AL Series

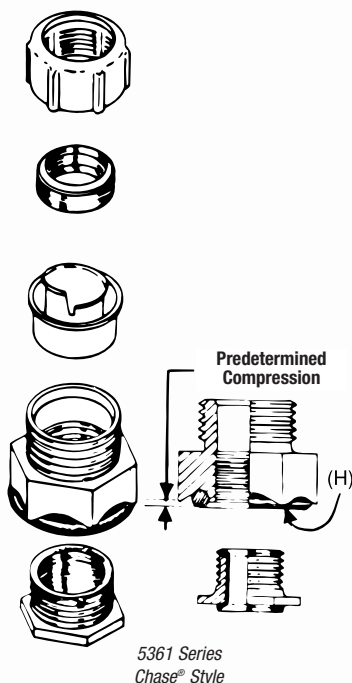


5361 Series



5271 Series

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



### Application

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

### Features

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

### Sealing Ring Design Features

- (1) Grips and seals at leading and trailing edge — will not abrade raceway jacket (D)
- (2) Provided with grooves on inside diameter for anti-sleeving (E)
- (3) Shoulders on both ends for extra sealing (F)
- (4) Symmetrical shape assures foolproof assembly

- Can be disconnected and reused.

- Watertight/oil tight installation at box or enclosure termination is assured by:

- (1) External taper thread hub on 5331 series and use of sealing gasket 5262 series (G)
- (2) Captivated sealing O-Ring on 5361 series (H)
- (3) Taper tapped hole on 5271 series

- Suitable for use in Class I Division 2, Class II Division 1 and 2 and Class III Division 1 and 2 Hazardous Locations per N.E.C. Section 500

- Suitable as a grounding means per NEC Section 351-9 (up to 1½" trade size on)

- ½" & 1½" sizes laboratory tested to carry ground fault current of up to 1,000 amps RMS with duration of fault current 3 cycles

- Conforms with JIC requirements

- Available with imperial, I.S.O. & PG threaded hub

### Standard Material

#### 5331-5361-5271 Series

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

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket: Stainless Steel and Buna N

#### 5231 AL Series

All Copper-free Aluminum (non-insulated)

#### 5332SST Series

31L Stainless Steel insulated

#### 5332B Series

Marine grade brass insulated avant

### Standard Finish

#### 5331-5361-5271 Series

Electro Zinc Plated & Chromate Coated

#### 5231 AL Series

Copper-free Aluminum

### Range

5331 Series	..... ¾" thru 6"*	conduit
5341 Series	..... ¾" thru 4"	conduit
5351 Series	..... ¾" thru 4"	conduit
5361 Series	..... ¾" thru 4"	conduit
5271 Series	..... ¾" thru 1½"	conduit
5231 AL Series	..... ¾" thru 4"	conduit
5332SST Series	..... ½" & ¾"	conduit
5332B Series	..... ½" & ¾"	conduit

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

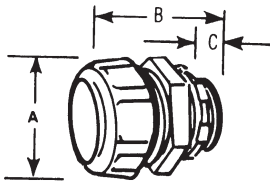
### Listed/Certified by

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

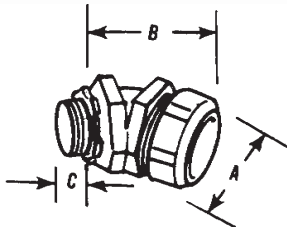
### Conforms to

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

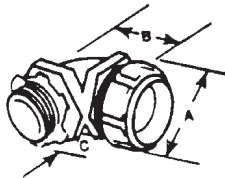
# Liquidtight Flexible Metal Conduit Fittings



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



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



## 52® and 53™ Series Liquidtight Straight Connectors\*

CAT. NO.		CONDUIT SIZE	DIMENSIONS (IN.)		
INSULATED STEEL	NON-INSULATED STEEL		A	B	C
5229†	—	¼"	27/32	1 1/8	15/32
5330†	—	5/16"	63/64	1 1/8	15/32
5331***	5231†	3/8"	1 1/32	1 1/2	9/16
5332†	5232†	½"	1 1/8	1 1/16	9/16
5333†	5233†	¾"	1 21/32	1 5/8	9/16
5334†	5234†	1"	1 7/8	2 1/16	3/4
5335†	5235†	1 ¼"	2 1/32	2 1/2	13/16
5336	5236	1 ½"	2 23/32	2 11/16	13/16
5337	5237	2"	3 ¼	3 1/16	7/8
5338	5238	2 ½"	3 ¾	4 1/8	1
5339	5239	3"	4 ½	4 ¼	1
5340	5240	4"	5 ½	4 ¾	1 1/8
5385†	5285	5"	8 ¾	7	1 1/8
5386†	—	6"	8 ¾	8 ½	2

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

CAT. NO.		CONDUIT SIZE	DIMENSIONS (IN.)		
INSULATED	NON-INSULATED		A	B	C
5341***	5241†	3/8"	1 1/32	1 1/16	9/16
5342†	5242†	½"	1 1/8	1 1/8	9/16
5343†	5243†	¾"	1 21/32	2 1/8	9/16
5344†	5244†	1"	1 7/8	2 ¼	3/4
5345†	5245†	1 ¼"	2 1/32	2 ¼	13/16
5346	5246	1 ½"	2 23/32	3 1/8	13/16
5347	5247	2"	3 ¼	3 1/8	7/8
5348	5248	2 ½"	3 ¾	4 ¼	1
5349	5249	3"	4 ½	4 ¼	1
5350	5250	4"	5 ½	4 3/8	1 1/8

## 52® and 53™ Series Liquidtight 90° Angle Connectors

CAT. NO.		HUB SIZE	CONDUIT SIZE	DIMENSIONS (IN.)		
INSULATED	NON-INSULATED			A	B	C
5351	5251	½"	3/8"	1 1/32	1 1/8	9/16
5352	5252	½"	½"	1 1/8	1 1/16	9/16
5353	5253	¾"	¾"	1 21/32	1 ¾	9/16
5354	5254	1"	1"	1 7/8	2 1/16	3/4
5355	5255	1 ¼"	1 ¼"	2 1/32	2 ¼	13/16
5356	5256	1 ½"	1 ½"	2 23/32	2 5/16	13/16
5357	5257	2"	2"	3 ¼	3 1/16	7/8
5358	5258	2 ½"	2 ½"	3 ¾	8 1/8	1
5359	5259	3"	3"	4 ½	10 ¼	1
5360	5260	4"	4"	5 ½	12 5/8	1 1/8

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

\*\*\* ¾" Conduit Fitting has ½" hub.

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

‡ Not UL Listed.

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

UL File No. E-23018

CSA File No. 2884

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

Blue is a trademark color of Thomas & Betts.

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Thomas & Betts

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# Liquidtight Flexible Metal Conduit Fittings

## Corrosion-Resistant PVC Jacketed Liquidtight Connectors



CAT. NO.	CONDUIT SIZE	A	B	C
<b>Straight PVC Coated</b>				
3321†	3/8"	1 1/32"	2 5/16"	9/16"
3322†	1/2"	1 1/4"	2 1/2"	9/16"
3323†	3/4"	1 5/16"	2 7/32"	9/16"
3324†	1"	2 1/4"	3 1/4"	3/4"
3325†	1 1/4"	2 1/8"	4 1/4"	13/16"
3326	1 1/2"	3"	4 11/16"	13/16"
3327	2"	3 3/8"	5 5/16"	7/8"
3328	2 1/2"	4"	6 3/8"	1"
3329	3"	5 5/16"	6 1/2"	1"
3331	4"	6 3/4"	6 3/4"	1 1/8"

† UL Listed as grounding means per NEC, SECT. 351.7  
Complies with JIC standards and Federal Specs A-A-50552,  
A-A-50553

Suitable for hazardous locations use in Class I, Div. 2; Class II,

CAT. NO.	CONDUIT SIZE	A	B	C
<b>45° PVC Coated</b>				
3341†	3/8"	1 1/4"	1 1/8"	9/16"
3342†	1/2"	1 1/2"	1 1/4"	9/16"
3343†	3/4"	1 5/8"	1 3/8"	9/16"
3344†	1"	2 1/4"	1 3/8"	3/4"
3345†	1 1/4"	2 1/8"	2 1/4"	13/16"
3346	1 1/2"	3"	2 11/16"	13/16"
3347	2"	3 3/8"	3 3/8"	7/8"
3348	2 1/2"	4 3/8"	3 13/16"	1"
3349	3"	5 5/16"	4 3/8"	1"
3352	4"	6 3/4"	5 3/4"	1 1/8"

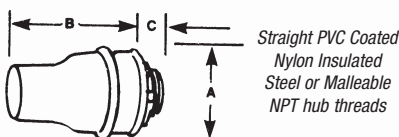
Div. 1 and 2; Class III, Div. 1 and 2, where general purpose  
equipment is specifically permitted per NEC Section 500-2(a).  
Meets Coast Guard CG293

CAT. NO.	CONDUIT SIZE	A	B	C
<b>90° PVC Coated</b>				
3361†	3/8"	1 1/4"	2 1/8"	9/16"
3362†	1/2"	1 1/2"	2 1/4"	9/16"
3363†	3/4"	1 5/8"	2 3/8"	9/16"
3364†	1"	2 1/4"	3 1/8"	3/4"
3365†	1 1/4"	2 1/8"	4 1/4"	13/16"
3366	1 1/2"	3"	4 11/16"	13/16"
3367	2"	3 3/8"	5 1/8"	7/8"
3368	2 1/2"	4 3/8"	11 1/8"	1"
3369	3"	5 5/16"	12 1/2"	1"
3371	4"	6 3/4"	14 3/8"	1 1/8"

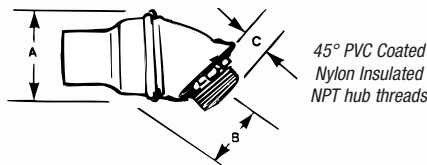
UL File No. E 23018

CSA File No. 2884

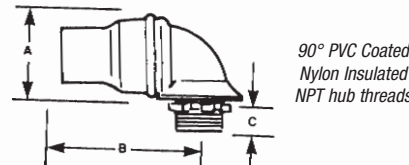
UL Type 3, 3R, 3S, 4, 5, 12, 12K & 13 Locations



Straight PVC Coated  
Nylon Insulated  
Steel or Malleable  
NPT hub threads



45° PVC Coated  
Nylon Insulated  
NPT hub threads



90° PVC Coated  
Nylon Insulated  
NPT hub threads

The strength of steel — with superior corrosion-resistance!

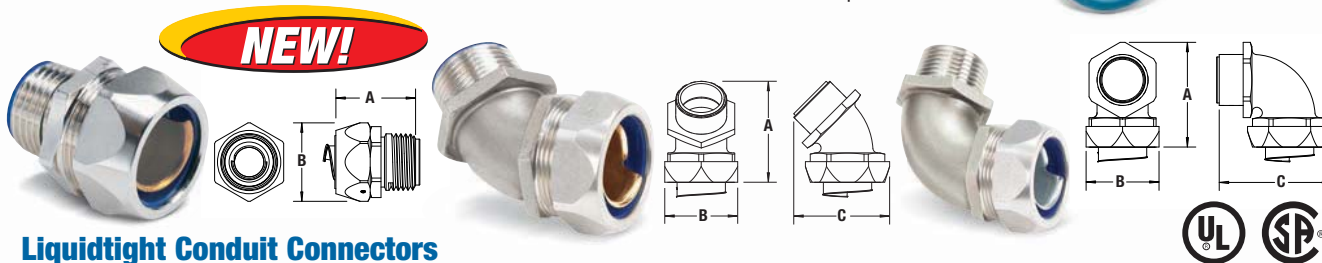
## Stainless Steel Liquidtight Conduit Connectors

Until now, there's been no ideal conduit fitting solution for use in heavily corrosive environments. Traditional metallic fittings corrode and require frequent replacement. Non-metallic fittings offer less strength, lower UV-resistance and don't stand up well in extreme temperatures. T&B® Stainless Steel Liquidtight Conduit Connectors are constructed of 304 stainless steel to resist corrosion while offering high strength, high UV-resistance and high endurance. Choose among a full range of fittings in straight, 45°, and 90° angled configurations for 3/8" to 2" conduit sizes. Look for the distinctive blue insulator and sealing ring for assurance of T&B quality.

- Ideal for industrial MRO and OEM applications in food and beverage, pharmaceutical, petrochemical, wastewater, salt water and other corrosive environments
- Connects metallic-cored liquidtight conduit to a box or enclosure
- 304 stainless steel body and gland-nut resists corrosion far better than other metallic fittings
- Stronger, more UV-resistant than nonmetallic fittings
- Ground cones are available in 1/4", 1 1/2" and 2" sizes and are brass/nickel plated
- Available in straight, 45°, and 90° angled configurations to fit conduit from 3/8" to 2"
- UL® Listed Ratings: 3, 3R, 4, 4X
- 5262 Sealing Ring Gasket (sold separately) includes a stainless steel retaining ring to prevent elongation of the gasket and is made from Santoprene™ material, ensuring a superior seal



5262 Series  
Sealing Ring Gasket  
sold separately



## Liquidtight Conduit Connectors

CAT. NO.	SIZE	DIMENSIONS	STD. PKG. QTY.
A	B	C	
<b>Straight</b>			
5331SST	3/8"	1.360" 1.02"	— 25
5332SST	1/2"	1.360" 1.18"	— 25
5333SST	3/4"	1.388" 1.37"	— 25
5334SST	1"	1.562" 1.77"	— 5
5335SST	1 1/4"	1.720" 2.12"	— 20
5336SST	1 1/2"	2.020" 2.48"	— 5
5337SST	2"	2.335" 3.04"	— 2

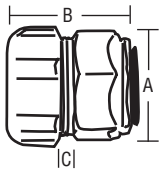
Blue is a trademark color of Thomas & Betts.

CAT. NO.	SIZE	DIMENSIONS	STD. PKG. QTY.
A	B	C	
<b>45° Angled</b>			
5341SST	3/8"	1.84" 1.02" 1.43"	25
5342SST	1/2"	1.62" 1.18" 2.04"	25
5343SST	3/4"	2.32" 1.37" 1.93"	10
5344SST	1"	2.86" 1.77" 2.37"	5
5345SST	1 1/4"	3.33" 2.12" 2.80"	5
5346SST	1 1/2"	3.94" 2.48" 3.39"	2
5347SST	2"	4.73" 3.04" 4.23"	1

CAT. NO.	SIZE	DIMENSIONS	STD. PKG. QTY.
A	B	C	
<b>90° Angled</b>			
5351SST	3/8"	1.95" 1.02" 1.84"	25
5352SST	1/2"	2.12" 1.18" 2.07"	25
5353SST	3/4"	2.47" 1.37" 2.44"	10
5354SST	1"	2.98" 1.77" 2.90"	5
5355SST	1 1/4"	3.53" 2.12" 3.36"	5
5356SST	1 1/2"	4.16" 2.48" 3.88"	2
5357SST	2"	8.60" 3.04" 4.69"	1

CAT. NO.	SIZE	DIMENSIONS	STD. PKG. QTY.
A	B	C	
<b>Sealing Gasket</b>			
5261	3/8"	— — —	50
5262	1/2"	— — —	50
5263	3/4"	— — —	25
5264	1"	— — —	25
5265	1 1/4"	— — —	5
5266	1 1/2"	— — —	5
5267	2"	— — —	5

## Liquidtight Flexible Metal Conduit Fittings



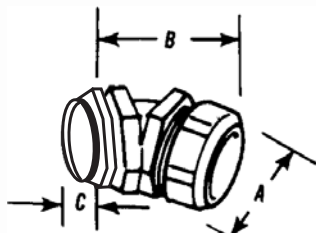
Steel or malleable iron with O-Ring Seal

### Nylon Insulated CHASE® Connectors



CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.)		
		A	B	C
5361†	3/8"	1 1/2	1 1/2	1/8
5362†	1/2"	1 1/2	1 1/2	3/16
5363†	3/4"	1 11/16	1 1/2	1/4
5364†	1"	2 1/2	2 1/6	1/4
5365†	1 1/4"	2 3/8	2 3/8	5/16
5366†	1 1/2"	2 5/8	2 3/4	3/8
5367†	2"	3 3/8	3	3/8
5368†	2 1/2"	4 3/8	3 11/16	7/16
5369†	3"	5 1/8	4 1/2	1/2
5370†	4"	5 1/2	4 1/2	1/2

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



Malleable iron

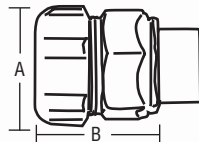
### Nylon Insulated 90° Angle CHASE® Connectors

CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.)		
		A	B	C
5371†	3/8"	1 1/2	1 1/2	3/16
5372†	1/2"	1 15/16	1 5/8	3/16
5373†	3/4"	1 31/64	1 1/2	9/32
5374†	1"	1 23/32	2 1/4	1 1/32

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

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

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



### Standard Liquidtight Female Hub Adapter



CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.)	
		A	B
5271†	3/8"	1 1/2	1 1/8
5272†	1/2"	1 1/2	1 11/16
5273†	3/4"	1 3/8	1 1/4
5274†	1"	1 1/2	2 1/8
5275†	1 1/4"	2 1/2	2 1/8

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



### Prevents severe conduit bends and pullout!

### Wiremesh Grips for Liquidtight Fittings



CAT. NO.	CONDUIT SIZE	LIQUIDTIGHT CONNECTORS			90° CHASE	CHASE	ADAPTER
		STRAIGHT	45°	90°			
WMG-LT1	3/8"	5331	5341	5351	5361	5371	5271
WMG-LT2	1/2"	5332	5342	5352	5362	5372	5272
WMG-LT3	3/4"	5333	5343	5353	5363	5373	5273
WMG-LT4	1"	5334	5344	5354	5364	5374	5274
WMG-LT5	1 1/4"	5335	5345	5355	5365	—	5275
WMG-LT6	1 1/2"	5336	5346	5356	5366	—	5276
WMG-LT7	2"	5337	5347	5357	5367	—	5277
WMG-LT8	2 1/2"	5338	5348	5358	5368	—	5278
WMG-LT9	3"	5339	5349	5359	5369	—	5279
WMG-LT10	4"	5340	5350	5360	5370	—	5282

Order wiremesh grip separately; no need to duplicate inventory.

UL File No. E23018

CSA File No. 2884 &amp; 4484



## Aluminum Liquidtight Conduit



Designed to resist corrosion.

### Flexible Aluminum Conduit

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

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

#### Specifications

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



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

### Revolver® Grounding Fitting

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



The T&B Aluminum Conduit and Fitting system suits the corrosive conditions of food processing plants.



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



# Aluminum Liquidtight Conduit

## Specifications for LTA Conduit

- Construction: Utilizes the flexibility of a lightweight aluminum core, coupled with the advantage of a PVC jacket that is virtually unaffected by sunlight, acid and oil. WEEE and RoHS compliant
- Application: Used in situations where concerns of excessive weight and corrosion exist
- Standard Color: Machine tool gray
- Working Temperature: -20° C to +80° C
- Standard Materials/Finish: LTA Conduit  
Conduit Core: Aluminum  
Outer Jacket: PVC

## LTA Aluminum Flexible Liquidtight Conduit

CAT. NO.	CONDUIT SIZE	LENGTH (FT.)	INSIDE BEND RADIUS (IN.)	WT. (LBS.)/ 100 FT.	WT. (LBS.)/ 50 FT.
LTA50-100	½"	100	2.5	15	—
LTA75-100	¾"	100	3.0	20	—
LTA100-100	1"	100	4.0	29	—
LTA125-50	1¼"	50	4.5	—	20
LTA150-50	1½"	50	5.5	—	28
LTA200-50	2"	50	7.0	—	36.5
LTA250-25	2½"	25	9.5	188	—
LTA300-25	3"	25	11.5	244	—
LTA400-25	4"	25	14	332	—

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

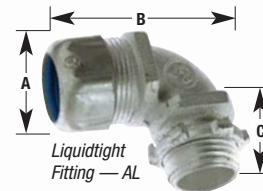
## Standard Materials/Finish

Fittings Body, Gland, Locknut . . . . . Aluminum  
Sealing Ring. . . . . Thermoplastic  
Zinc Plating with Clear  
Chromate Ground Cones

## 52® Series Liquidtight Fittings — AL



CAT. NO.	CONDUIT SIZE	DIMENSIONS		
		A	B	C
<b>Straight</b>				
5231AL	$\frac{3}{8}"$	$1\frac{5}{32}"$	$1\frac{1}{2}"$	$\frac{9}{16}"$
5232AL	$\frac{1}{2}"$	$1\frac{3}{8}"$	$1\frac{1}{8}"$	$\frac{9}{16}"$
5233AL	$\frac{3}{4}"$	$1\frac{21}{32}"$	$1\frac{5}{8}"$	$\frac{9}{16}"$
5234AL	1"	$1\frac{1}{8}"$	$2\frac{1}{16}"$	$\frac{3}{4}"$
5235AL	$1\frac{1}{4}"$	$2\frac{9}{32}"$	$2\frac{1}{2}"$	$1\frac{13}{16}"$
5236AL	$1\frac{1}{2}"$	$2\frac{22}{32}"$	$2\frac{1}{16}"$	$1\frac{13}{16}"$
5237AL	2"	$3\frac{1}{4}"$	$3\frac{1}{16}"$	$\frac{7}{8}"$
5238AL	$2\frac{1}{2}"$	$3\frac{3}{4}"$	$4\frac{1}{8}"$	1"
5239AL	3"	$4\frac{1}{2}"$	$4\frac{1}{4}"$	1"
5240AL	4"	$5\frac{1}{2}"$	$4\frac{1}{2}"$	$1\frac{1}{8}"$
<b>90°</b>				
5251AL	$\frac{3}{8}"$	$1\frac{5}{32}"$	$1\frac{13}{16}"$	$\frac{9}{16}"$
5252AL	$\frac{1}{2}"$	$1\frac{3}{8}"$	$1\frac{1}{8}"$	$\frac{9}{16}"$
5253AL	$\frac{3}{4}"$	$1\frac{21}{32}"$	$1\frac{3}{4}"$	$\frac{9}{16}"$
5254AL	1"	$1\frac{1}{8}"$	$2\frac{3}{16}"$	$\frac{3}{4}"$
5255AL	$1\frac{1}{4}"$	$2\frac{9}{32}"$	$2\frac{3}{4}"$	$1\frac{13}{16}"$
5256AL	$1\frac{1}{2}"$	$2\frac{23}{32}"$	$2\frac{15}{16}"$	$1\frac{13}{16}"$
5257AL	2"	$3\frac{1}{4}"$	$3\frac{1}{16}"$	$\frac{7}{8}"$



## Liquidtight Grounded Fittings — ALGR



CAT. NO.	CONDUIT SIZE	DIMENSIONS		
		A	B	C
<b>Straight</b>				
5231ALGR	3⁄8"	1 1⁄32"	1 1⁄2"	9⁄16"
5232ALGR	1⁄2"	1 1⁄8"	1 1⁄6"	9⁄16"
5233ALGR	3⁄4"	1 21⁄32"	1 5⁄8"	9⁄16"
5234ALGR	1"	1 1⁄8"	2 1⁄6"	3⁄4"
<b>90°</b>				
5251ALGR	3⁄8"	1 1⁄32"	1 1⁄4"	9⁄16"
5252ALGR	1⁄2"	1 1⁄8"	1 1⁄6"	9⁄16"
5253ALGR	3⁄4"	1 21⁄32"	1 13⁄16"	9⁄16"
5254ALGR	1"	1 1⁄8"	2 1⁄6"	3⁄4"
Ground Wire D 14-8 — 5231ALGR, 5232ALGR		Ground Wire D 14-8 — 5251ALGR, 5252ALGR		
Ground Wire D 14-4 — 5233ALGR, 5234ALGR		Ground Wire D 14-4 — 5253ALGR, 5254ALGR		

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Canada  
Tel: 450.347.5318  
Fax: 450.347.1976

Technical Services  
Tel: 888.862.3289

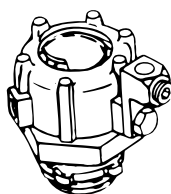
**Thomas & Betts**

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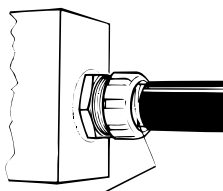
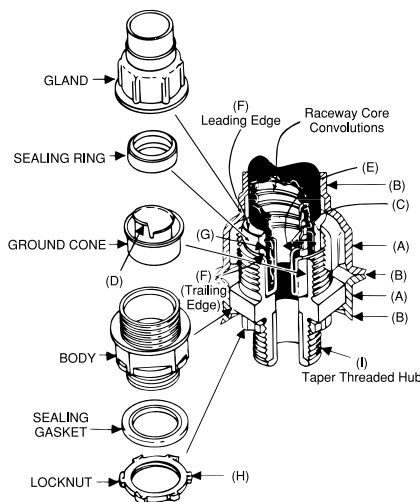
## Liquidtight Flexible Metal Conduit Fittings

### External Bonding Liquidtight Flexible Metal Conduit Connectors

T&B Fittings



Series 5331GR



#### Sleeving

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

#### Application

- Used where external bonding jumper is required around liquidtight flexible metal conduit
- To positively bond conduit to box or enclosure
- Used where flexible raceway is installed in outdoor or indoors location where exposed to continuous or intermittent moisture

#### Features

- Designed with provision to install bonding jumper in several positions
- Designed to accept mechanical or compression lug
- Ability to install quickly with low torque effort
  - (1) Compressed metallic convolutions; assures ground contact with low impedance and high raceway holding power (A)
  - (2) Single helical thread on ground cone is easy to install without cross thread; accepts variations in raceway diameters and convolution pitch (B)
  - (3) Rolled over edge protects conductors (C)
- Sealing ring design has following exclusive features:
  - (1) Grips and seals at leading and trailing edge — will not abrade raceway jacket (D)
  - (2) Provided with grooves on inside diameter for anti-sleeving (E)
  - (3) Shoulders on both ends for extra sealing (F)
  - (4) Symmetrical shape ensures foolproof assembly
- Can be disconnected and reuse
- Watertight/oil tight installation at box or enclosure termination is ensured by:
  - (1) External taper thread hub on 5331GR series and use of sealing gasket 5262 series (G)
  - (2) Taper tapped hole on 5271 series
- Suitable for use in Class I Division 2, Class II Division 1 & 2 and Class III Division 1 & 2 Hazardous Locations per NEC Article 500
- Suitable as a bonding means per UL 467 and NEC Article 351-9
- Conforms with JIC requirements

#### Standard Material

Lugs: High conductivity copper (for copper conductor only)

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

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket: Stainless Steel and Santoprene

Strap: Steel

#### Standard Finish

All Electro Zinc Plated and Chromate Coated except lugs

Lugs: Bright Dipped

#### Range

5331GR Series (straight connectors with male hub):  $\frac{3}{8}$ " thru 6" conduit

5341GR Series (45°):  $\frac{3}{8}$ " thru 4" conduit

5351GR Series (90°):  $\frac{3}{8}$ " thru 4" conduit

5232ALGR Series:  $\frac{3}{8}$ " thru 1" conduit

All hubs provided with taper pipe threads (NPT)

#### Listed/Certified by

UL File #E-23018

CSA

#### Conforms to

UL 467

UL 514B

CSA C22.2 No. 18

CSA22.2 No. 41

NEMA FB-1

NFPA 70

JIC EGP1

JIC EMP1

Federal Specification A-A-50552

Federal Standard H-28 (threads)

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

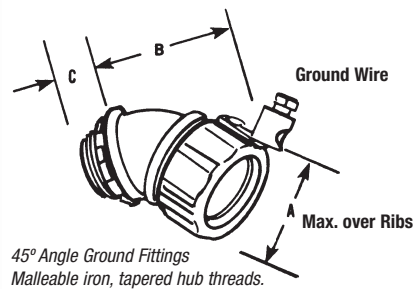
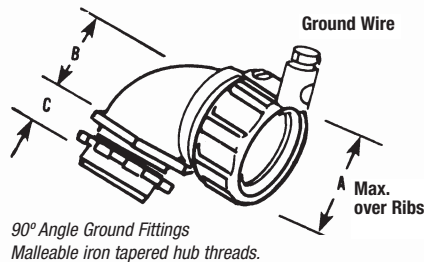
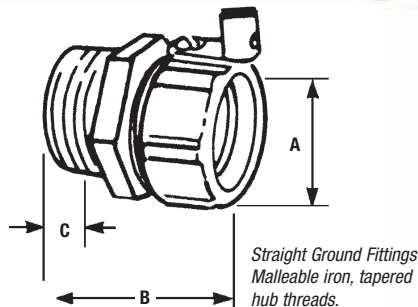


# Liquidtight Flexible Metal Conduit Fittings



Malleable iron with tapered hub threads!  
**Grounding Fittings —**  
 Straight\*, 45° Angle  
 and 90° Angle

Revolver®  
Ground Ring



CAT. NO.			CONDUIT SIZE	DIMENSIONS (IN.)			GROUND WIRE D
STEEL INSULATED	STEEL NON-INSULATED	ALUMINUM NON-INSULATED		A	B	C	
Straight Grounding Fittings							
5331GR**	5231GR*	5231 ALGR*	¾"	1½ <sub>2</sub>	1½	⅞ <sub>16</sub>	14-8
5332GR*	5232GR*	5232ALGR*	½"	1⅞	1⅞ <sub>16</sub>	⅞ <sub>16</sub>	14-8
5333GR*	5233GR*	5233ALGR*	¾"	1 <sup>21</sup> / <sub>32</sub>	1⅞	⅞ <sub>16</sub>	14-4
5334GR*	5234GR*	5234ALGR*	1"	1⅞	2⅞ <sub>16</sub>	¾	14-4
5335GR	5235GR	—	1¼"	2¼	2½	1 <sup>13</sup> / <sub>16</sub>	8-1/0
5336GR	5236GR	—	1½"	3¼	2 <sup>11</sup> / <sub>16</sub>	1 <sup>13</sup> / <sub>16</sub>	4-2/0
5337GR	5237GR	—	2"	3 <sup>3</sup> / <sub>16</sub>	3⅞ <sub>16</sub>	⅞	4-2/0
5338GR	5238GR	—	2½"	4⅞ <sub>16</sub>	4⅞	1	2-4/0
5339GR	5239GR	—	3"	5⅞ <sub>16</sub>	4¾	1	2-4/0
5340GR	5240GR	—	4"	6⅞	4¾	1⅞	2-4/0
5385GR	5285GR	—	5"	8⅞ <sub>16</sub>	7	1⅞	2-4/0
5386GR	—	—	6"	8 <sup>7</sup> / <sub>32</sub>	8½	2	2-4/0

## 90° Angle Grounding Fittings

5351GR**	5251GR**	5251ALGR*	3/8"	1 1/2	1 1/4	3/16	14-8
5352GR*	5252GR*	5252ALGR*	1/2"	1 1/2	1 1/2	3/16	14-8
5353GR*	5253GR*	5253ALGR*	3/4"	1 3/4	1 1/2	3/16	14-4
5354GR*	5254GR*	5254ALGR*	1"	1 1/2	2 1/4	3/8	14-4
5355GR*	5255GR	—	1 1/4"	2 1/4	2 1/2	13/16	8-1/0
5356GR	5256GR	—	1 1/2"	3 1/4	2 1/2	13/16	4-2/0
5357GR	5257GR	—	2"	3 3/4	3 1/2	7/8	4-2/0
5358GR	5258GR	—	2 1/2"	4 1/2	4 1/2	1	2-4/0
5359GR	5259GR	—	3"	5 1/2	4 1/2	1	2-4/0
5360GR	5260GR	—	4"	6 1/2	4 1/2	1 1/8	2-4/0

CAT. NO.		CONDUIT SIZE	DIMENSIONS (IN.)			GROUND WIRE D
INSULATED	NON-INSULATED		A	B	C	
45° Angle Grounding Fittings						
5341GR**	5241GR**	3/8"	1 1/2	1 1/6	9/16	14-8
5342GR*	5242GR*	1/2"	1 1/2	1 1/6	9/16	14-8
5343GR*	5243GR*	3/4"	1 3/2	2 1/2	9/16	14-4
5344GR*	5244GR*	1"	1 1/2	2 1/4	3/4	14-4
5345GR	5245GR	1 1/4"	2 1/4	2 3/4	13/16	8-1/0
5346GR	5246GR	1 1/2"	3 1/4	3 3/8	13/16	4-2/0
5347GR	5247GR	2"	3 3/16	3 3/8	7/8	4-2/0
5348GR	5248GR	2 1/2"	4 1/6	4 1/4	1	2-4/0
5349GR	5249GR	3"	5 1/6	4 1/4	1	2-4/0
5350GR	5250GR	4"	6 1/4	4 3/4	1 1/8	2-4/0

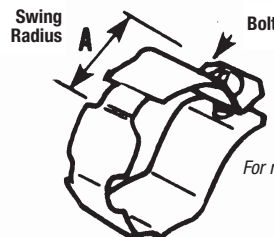
\*\* 3/8" conduit fittings have 1/2" trade size hub. With safe-edge ground cone (through 4") and double bevel sealing ring (through 2").

UL Listed liquidtight; and CSA Certified watertight. Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 1 and 2; Class III, Div. 1 and 2, where general purpose equipment is specifically permitted per NEC Section 500-2(a). Available with DURA-PLATE® Finish. UL File No. E-3060 CSA File No. 638

\*NOTE: 3/8"-1" fittings include Revolver® grounding device. For sizes 1 1/4" and up, fittings are supplied with a copper mechanical lug.

For retrofit applications —  
includes strap, nut and bolt!

## External Grounding Strap



For retrofit applications.  
Includes strap,  
nut and bolt.

CAT. NO.	CONDUIT SIZE	A	B BOLT SIZE
GR1W	3/8"	1"	10-24
GR2W	1/2"	1 1/8"	10-24
GR3W	3/4"	1 1/4"	1/4-20
GR4W	1"	1 1/2"	1/4-20
GR5W	1 1/4"	1 3/4"	5/16-18

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

United States  
Tel: 901.252.8000  
800.816.7809  
Fax: 901.252.1354

Canada  
Tel: 450.347.5318  
Fax: 450.347.1976

Technical Services  
Tel: 888.862.3289

**Thomas & Betts**

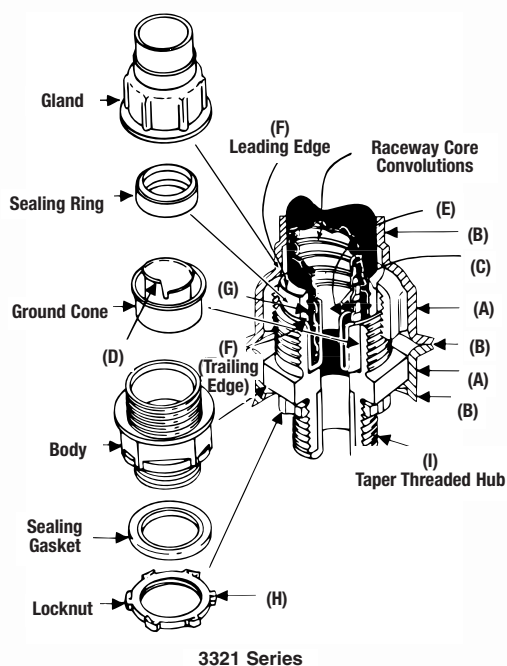
www.tnb.com

## Liquidtight Flexible Metal Conduit Fittings



3321 Series\*

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



3321 Series

### Liquidtight Flexible Metal Conduit Connectors (PVC Coated)

#### Application

- Used where liquidtight flexible metal conduit is installed in outdoor or indoor locations where exposed to environmental conditions that are more than normally corrosive to exposed surfaces
- To positively bond conduit to box or enclosure

#### Features

- PVC coated to protect connector from extremely corrosive surroundings without affecting integrity of electrical grounding path (A)
- Provided with overlapping sleeve for additional seal (B)
- Ability to install quickly with low torque effort
- Ground cone design offers following advantages:
  - (1) Compresses metallic convolutions; provides high quality ground contact with low impedance and high raceway holding power (C)
  - (2) Single helical thread on ground cone is easy to install without cross threading; accepts variations in raceway diameters and convolution pitch (D)
  - (3) Rolled over edge protects conductors (E)
- Sealing ring design has following exclusive features:
  - (1) Grips and seals at leading and trailing edge — will not abrade raceway jacket (F)
  - (2) Provided with grooves on inside diameter for anti-sleeving (G)
  - (3) Shoulders on both ends for extra sealing
  - (4) Symmetrical shape ensures foolproof assembly
- Hardened steel or malleable iron locknut (H)
- Can be disconnected and reused

- Watertight/oil tight installation at box or enclosure termination is provided by — external taper thread hub and sealing gasket (I)
- Suitable for use in Class I Division 2, Class II Division 1 & 2 and Class III Division 1 & 2 Hazardous Locations per NEC Article 500
- Suitable as a grounding means per NEC Section 351-9 (up to 1¼" trade size)
- Conforms with JIC requirements

#### Standard Material

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

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket, Retainer — Stainless Steel:  
Resilient Seal: Santoprene

Coating — PVC

Outside of body & gland...PVC Coated

Inside of body & gland...Electro Zinc Plated  
& Chromate Coated

Locknut & Sealing Gasket, Retainer...Electro  
Zinc Plated & Chromate Coated

#### Range

3321, 3361 & 3341 Series...¾" thru  
4" conduit

All hubs provided with taper pipe threads (NPT)

#### Listed/Certified by:

UL (UL File E23018)

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

#### Conforms to:

UL 514B

CSA C22.2 No. 18

NEMA FB-1

NFPA 70

JIC EGP1

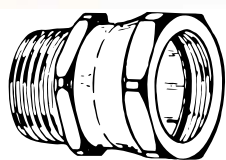
JIC EMP1

Federal Specification A-A-50552

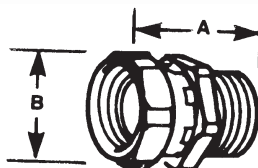
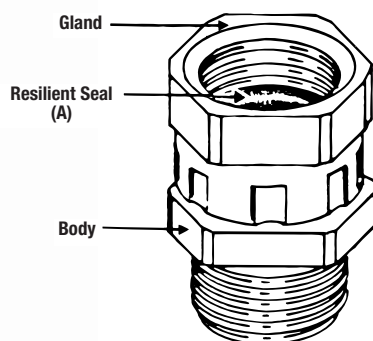
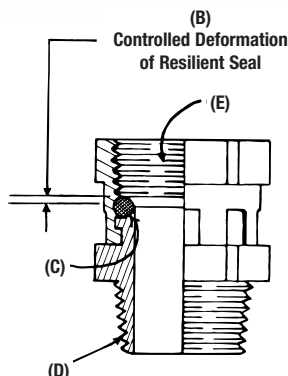
Federal Standard H-28 (THREADS)



## Liquidtight Flexible Metal Conduit Fittings



41 Series



Steel, zinc plated and chromated.  
Ideal for angle fittings where swing  
clearance is not available.

### Liquidtight Union for Threaded Hub

#### Application

- To couple threaded end of a fitting or a pipe to a tapped opening in a box or enclosure where rotation of fitting or pipe is limited or restricted

#### Features

- Design provides high quality bond between fitting or pipe to the union
- Provided with resilient seal (A)
- Resilient seal subjected to controlled deformation; positive seal and reusability are ensured (B)
- Unique design centralizes throat openings of threaded hub and union (C)
- Permits orientation of fitting in any predetermined direction for a safe, functional and neat assembly
- Provided with taper threaded hub for liquidtight assembly (D)
- Straight pipe threads on gland accept a straight or taper threaded hub on fitting or pipe to be coupled (E)
- Suitable for hazardous location use per NEC Article 501 Class I, Division 2, Article 502 Class II, Division 1 & 2 and Article III Division 1 & 2

#### Standard Material/Finish

Gland ..... Steel/Electro Zinc Chromate Coated  
Body ..... Steel/Electro Zinc Chromate Coated  
O-Ring ..... Buna N/As Molded

#### Range

Hub (External Thread) ..... 1/2" & 3/4" NPT  
Gland (Internal Threads) ..... 1/2" & 3/4" NPS

#### Listed/Certified by

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

#### Conforms to

UL 514B  
CSA C22.2 No. 18  
NEMA FB1  
NFPA 70  
Federal Standard A-A-50553  
Federal Standard A-A-50552  
Federal Standard H-28 (Threads)

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



CAT. NO.	CONDUIT SIZE	A	B
41-TB	1/2"	1 3/64"	1"
42-TB	3/4"	1 15/16"	1 1/4"

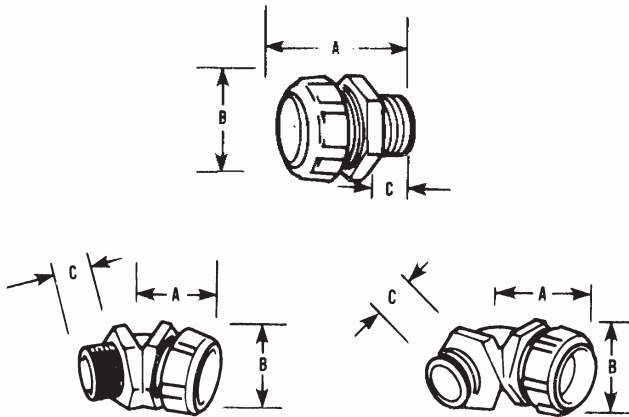
UL File No. E 23018

CSA File No. 2884

## Liquidtight Flexible Metal Conduit Fittings

Fittings for Liquidtight flexible metal conduit with metric threads of PG form (DIN 40430).

### PG Metric Thread Liquidtight Fittings\*



Fittings for Liquidtight flexible metal conduit with metric threads of PG Form (DIN 40430).

CAT. NO.	FLEXIBLE CONDUIT SIZE	METRIC PG THREAD	A MM	B MM	C MM
<b>Nylon insulated straight connectors</b>					
7330	1/4"	9	36	21	12
7331	1/4"	11	36	21	12
7360	3/16"	9	36	26	12
7361	3/8"	11	40	29	14
7362	3/8"	13.5	40	29	14
7363	1 1/4"	16	41	35	14
7364	3/4"	21	43	42	14
7365	1"	29	56	47	19
7366	1 1/4"	36	67	58	21
7367	1 1/2"	42	72	69	21
7368	2"	48	81	83	21

<b>Nylon insulated 45° angle connectors</b>					
7341	3/8"	11	27	29	14
7342	3/8"	13.5	27	29	14
7343	1/2"	16	30	35	14
7344-TB	3/4"	21	34	42	14
7345	1"	29	44	47	19
7346	1 1/4"	36	51	58	19
7347	1 1/2"	42	60	69	21
7348-TB	2"	48	73	76	24

<b>Nylon insulated 90° angle connectors</b>					
7351	3/8"	11	37	29	14
7352	3/8"	13.5	37	29	14
7353	1/2"	16	40	35	14
7354	3/4"	21	44	42	14
7355	1"	29	56	47	21
7356	1 1/4"	36	70	58	21
7357	1 1/2"	42	75	69	21
7358	2"	48	87	83	24

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

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

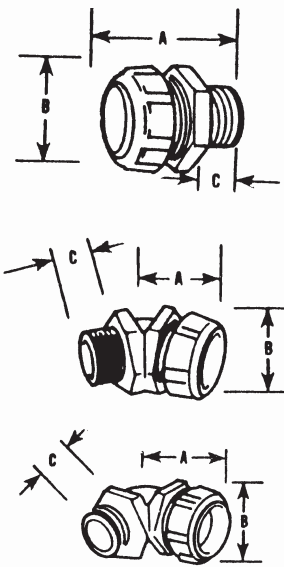
UL Listed liquidtight. CSA Certified watertight.

UL File No. E-23018

CSA File No. 2884

Fittings for Liquidtight flexible metal conduit with metric threads of ISO form (BS-4568-SA BS 162).

### ISO Metric Thread Liquidtight Fittings\*



CAT. NO.	FLEXIBLE CONDUIT SIZE	METRIC ISO THREAD	A MM	B MM	C MM
<b>Nylon insulated straight connectors</b>					
9330	1/4"	16	36	21	12
9331	1/4"	20	36	21	12
9306	5/16"	16	36	26	12
9360	3/16"	16	40	29	16
9361	3/8"	20	40	29	16
9362	1/2"	20	42	35	16
9363	3/4"	25	45	42	16
9364	1"	32	54	47	23
<b>Nylon insulated 45° angle connectors</b>					
9340	3/8"	16	27	29	16
9341	3/8"	20	27	29	16
9342	1/2"	20	27	35	16
9343TB	3/4"	25	31	42	16
9344	1"	32	34	47	23

CAT. NO.	FLEXIBLE CONDUIT SIZE	METRIC ISO THREAD	A MM	B MM	C MM
<b>Nylon insulated 90° angle connectors</b>					
9350	3/8"	16	35	29	16
9351	3/8"	20	35	29	16
9352TB	1/2"	20	39	35	16
9353TB	3/4"	25	43	42	16
9354TB	1"	32	48	47	23

U.L. Listed Liquidtight. CSA certified watertight.

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

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

Fittings for Liquidtight flexible metal conduit with metric threads of ISO Form (BS-4568-SA BS 162).

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