

52®/53® Series Liquidtight Fittings and Flexible Metallic Conduits

Liquidtight Flexible Metal Conduit Fittings

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 ensured 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 NEC® Section 500
 - Suitable as a grounding means per NEC Section 351-9 (up to 1¼" trade size on)
 - ½" & 1¼" sizes laboratory tested to carry ground fault current of up to 1,000 amps RMS with duration of fault current three cycles
 - Conforms with JIC requirements
 - Available with imperial, ISO and PG threaded hub

Standard Material

5331-5361-5271 Series

Body, Gland, Locknut & Ground Cones: Steel (¼"–1¼") or malleable iron (1½"–6")

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket: Stainless Steel and Santoprene®

5331SST-5331SSTHT Series

304 Stainless Steel insulated

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket: Stainless Steel and Santoprene®

5231 AL Series

All Copper-free Aluminum (non-insulated)

Standard Finish

5331-5361-5271 Series

Electro Zinc Plated with Chromate Coating

5331ST-5331STH Series

Electro Zinc Plated with Chromate Coating

5231 AL Series

Copper-free Aluminum

Range

5331 Series	¾" through 6" conduit
5341 Series	¾" through 4" conduit
5351 Series	¾" through 4" conduit
5361 Series	¾" through 4" conduit
5271 Series	¾" through 1¼" conduit
5331SST Series	¾" through 2" conduit
5331SSTHT Series	¾" through 2" conduit
5231 AL Series	¾" through 4" conduit

*All hubs provided with taper pipe threads (NPT)

Listings/Compliances

UL UL File No. E-23018
 CSA LR-2884, LR-4484, LR-9555
 UL 514B
 CSA C22.2 No. 18
 NEMA FB-1
 NFPA 70-1999 (ANSI)
 JIC EGP1
 JIC EMP1
 Federal Specification A-A-50552
 Federal Standard H-28 (Threads)



5331 Series*
5231 AL Series

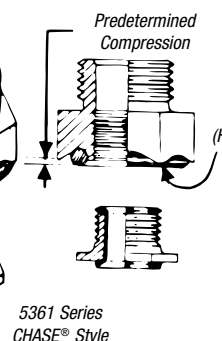
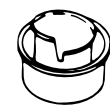


5361 Series



5271 Series

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



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52®/53® Series Liquidtight Fittings and Flexible Metallic Conduits

53® Series High-Temperature Flexible Metal Liquidtight Fittings

Where liquidtight flexible metal fittings are required in high-temperature environments up to 150° C:



T&B HT-Series
Liquidtight Fittings
are available straight,
45° and 90°.

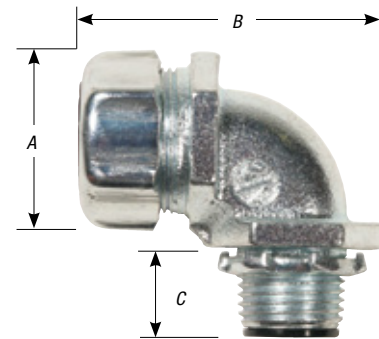
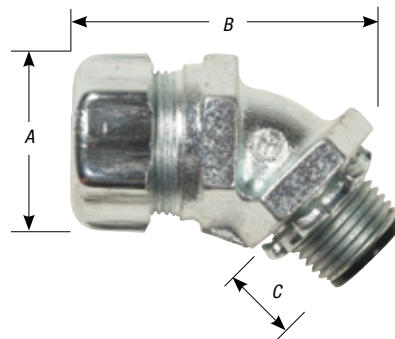
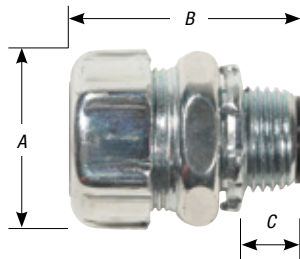
- The fitting's body, gland, locknut and ground cone shall be constructed from steel or malleable iron, electro-zinc plated and chromate coated for corrosion protection
- The fitting's sealing ring and throat insulator will be molded from high-temperature nylon, suitable for temperatures up to 150° C and a minimum UL flammability rating of UL94-V2
- The fitting shall be constructed to accept high-temperature flexible metal liquidtight conduit rated to 150° C
- The fitting shall have a plastic throat insulator to protect conductors
- The fitting shall have a steel ground cone to:
 - provide high-quality ground contact
 - single helical thread for easy installation into conduit
 - rolled over edge to protect conductors
- The fitting shall have a plastic sealing ring to:
 - grip and seal at leading and trailing edge (double bevel up to 2") of conduit jacket
 - provide a watertight/oiltight seal
- The fittings shall be capable to terminate the conduit in either a threaded or threadless opening
- For applications where termination into a threaded opening is required, the fitting shall have external tapered NPT threads
- Fittings shall conform to UL 514B*
- Accepted Manufacturers: Thomas & Betts — 5331-HT straight series, 5341-HT 45° series, 5351-HT 90° series; 5262 sealing ring series

* These fittings are not UL Listed.



ATX Flexible Liquidtight Conduit

CAT. NO.	CONDUIT SIZE	LENGTH (FT.)	INSIDE BEND RADIUS (IN.)
ATX038-TB	3/8"	100	1.5
ATX050-TB	1/2"	100	2.0
ATX075-TB	3/4"	100	2.5
ATX100-TB	1"	100	3.0
ATX125-TB	1 1/4"	50	3.5
ATX150-TB	1 1/2"	50	4.5
ATX200-TB	2"	50	5.5
ATX250-TB	2 1/2"	25	8.0
ATX300-TB	3"	25	10.0
ATX400-TB	4"	25	12.0



Straight Liquidtight Fittings — HT

CAT. NO.	CONDUIT SIZE	DIMENSIONS		
		A	B	C
5331-HT	3/8"	1 1/2"	1 1/2"	9/16"
5332-HT	1/2"	1 3/8"	1 1/8"	9/16"
5333-HT	3/4"	1 21/32"	1 5/8"	9/16"
5334-HT	1"	1 7/8"	2 1/16"	3/4"
5335-HT	1 1/4"	2 3/32"	2 1/2"	13/16"
5336-HT	1 1/2"	2 27/32"	2 11/16"	13/16"
5337-HT	2"	3 1/4"	3 1/16"	7/8"
5338-HT	2 1/2"	3 3/4"	4 1/8"	1"
5339-HT	3"	4 1/2"	4 1/4"	1"
5340-HT	4"	5 1/2"	4 1/2"	1 1/8"

45° Liquidtight Fittings — HT

CAT. NO.	CONDUIT SIZE	DIMENSIONS		
		A	B	C
5341-HT	3/8"	1 1/2"	1 1/8"	9/16"
5342-HT	1/2"	1 3/8"	7/8"	9/16"
5343-HT	3/4"	1 21/32"	2 1/8"	9/16"
5344-HT	1"	1 7/8"	2 1/4"	3/4"
5345-HT	1 1/4"	2 3/32"	2 3/4"	13/16"
5346-HT	1 1/2"	2 27/32"	2 3/4"	13/16"
5347-HT	2"	3 1/4"	3 1/8"	7/8"

90° Liquidtight Fittings — HT

CAT. NO.	CONDUIT SIZE	DIMENSIONS		
		A	B	C
5351-HT	3/8"	1 1/2"	1 1/8"	9/16"
5352-HT	1/2"	1 3/8"	1 1/8"	9/16"
5353-HT	3/4"	1 21/32"	1 3/4"	9/16"
5354-HT	1"	1 7/8"	2 3/16"	3/4"
5355-HT	1 1/4"	2 3/32"	2 3/4"	13/16"
5356-HT	1 1/2"	2 27/32"	2 3/4"	13/16"
5357-HT	2"	3 1/4"	3 1/8"	7/8"