
PRODUCT BROCHURE

T&B Liquidtight Systems[®] high-/low-temperature conduit and fittings



Hot or cold, ABB makes the perfect liquid-tight fitting to handle the job.



01 The exclusive design features of the popular T&B Liquidtight systems conduit fittings include a high-temperature version, perfect for demanding environments.

02 ABB's heat-curled insulator

03 Competitor's glue-in insulator

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 gland nut keep dirt and grime out of the threads as you tighten.

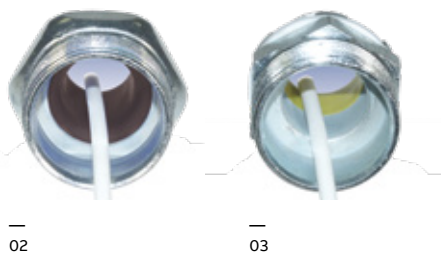
Double beveled sealing ring is designed with five unique sealing mechanisms and cannot be installed backwards. Manufactured of high temperature rated thermoset to demanding specifications.

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.

Double plating for superior corrosion protection; zinc plating with clear chromate finish.

Precision rolled threads provide smooth, easy installations and are stronger than cut threads. The body is drawn steel for exceptional strength and quality.

Case-hardened locknut with teeth provides superior strength, electrical bonding and easy installation.



Heat-curled insulator

Molded inside body provides excellent wire protection and easier glide of the conductors through and into the fitting. Also, the heat-curled finish gives the insulator more strength compared to "glue-in" versions.

The perfect combination for extreme liquid-tight applications.

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04 The high-/low-temperature liquidtight system suits the demanding conditions of food processing plants and transportation applications.

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

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06 HT-series liquidtight fittings are available straight, 45° and 90°.

Specify T&B Liquidtight Systems LTXE liquid-tight flexible metal conduit to use with HT-series liquid-tight fittings in excessive temperature range applications such as industrial ovens, boilers and furnaces, kilns, heavy machinery or sub-zero environments.

LTXE flexible metal conduit

- Conduit designed to withstand an extreme temperature range.

Construction:

- Utilizes the flexibility of a standard core, coupled with the advantage of a thermoplastic rubber jacket that is virtually unaffected by temperature extremes and contains no halogens. The material has a flammability rating of UL94-HB.

Application:

- Use in situations where concerns of resistance to temperature exposure exist. These include heavy outdoor equipment, boilers and furnaces, pulp and paper mills and sub-zero areas.

Standard color:

- Black

Working temperature:

- -60 °C to 150 °C

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.



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T&B Liquidtight Systems high-/low-temperature conduit and fittings

Suggested specifications for high temperature flexible metal liquid-tight fittings

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

- 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.
- 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 threads 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 of terminating 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.
- Accepted manufacturers: ABB — 5331-HT straight series, 5341-HT 45° series, 5351-HT 90° series; 5262 sealing ring series

Standard materials/finish

Fittings

- Body, gland, locknut, ground cones
 - All steel or malleable iron
- Sealing ring and insulator
 - High temperature rated thermoplastic
- Exterior and interior finish
 - Zinc plating with clear chromate

LTXE conduit

- Conduit
 - Thermoplastic rubber jacket



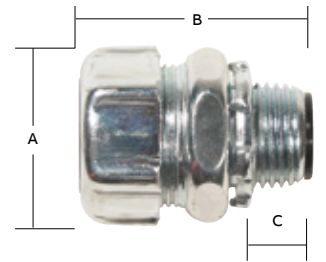
Add suffix -GR to the fitting catalog number to order the Revolver® grounding version. Can be used with WMG series mesh grip for additional strain relief.



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Straight liquid-tight fittings — HT

Cat. no.	Conduit size (in.)	Dimensions (in.)		
		A	B	C
5331-HT	$\frac{3}{8}$	$1\frac{5}{32}$	$1\frac{1}{2}$	$\frac{9}{16}$
5332-HT	$\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{9}{16}$	$\frac{9}{16}$
5333-HT	$\frac{3}{4}$	$1\frac{21}{32}$	$1\frac{5}{8}$	$\frac{9}{16}$
5334-HT	1	$1\frac{7}{8}$	$2\frac{1}{16}$	$\frac{3}{4}$
5335-HT	$1\frac{1}{4}$	$2\frac{9}{32}$	$2\frac{1}{2}$	$\frac{13}{16}$
5336-HT	$1\frac{1}{2}$	$2\frac{22}{32}$	$2\frac{11}{16}$	$\frac{13}{16}$
5337-HT	2	$3\frac{1}{4}$	$3\frac{1}{16}$	$\frac{7}{8}$
5338-HT	$2\frac{1}{2}$	$3\frac{3}{4}$	$4\frac{1}{8}$	1
5339-HT	3	$4\frac{1}{2}$	$4\frac{1}{4}$	1
5340-HT	4	$5\frac{1}{2}$	$4\frac{1}{2}$	$1\frac{1}{8}$

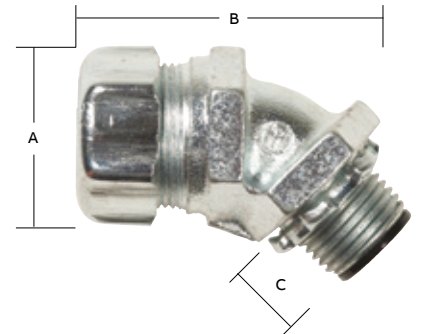
Diagram



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45° liquid-tight fittings — HT

Cat. no.	Conduit size (in.)	Dimensions (in.)		
		A	B	C
5341-HT	$\frac{3}{8}$	$1\frac{5}{32}$	$1\frac{9}{16}$	$\frac{9}{16}$
5342-HT	$\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{7}{8}$	$\frac{9}{16}$
5343-HT	$\frac{3}{4}$	$1\frac{21}{32}$	$2\frac{1}{8}$	$\frac{9}{16}$
5344-HT	1	$1\frac{7}{8}$	$2\frac{1}{4}$	$\frac{3}{4}$
5345-HT	$1\frac{1}{4}$	$2\frac{9}{32}$	$2\frac{3}{4}$	$\frac{13}{16}$
5346-HT	$1\frac{1}{2}$	$2\frac{22}{32}$	$2\frac{3}{8}$	$\frac{13}{16}$
5347-HT	2	$3\frac{1}{4}$	$3\frac{3}{8}$	$\frac{7}{8}$

Diagram

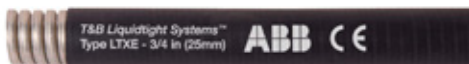
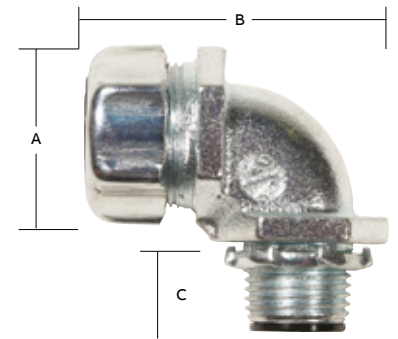


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90° liquid-tight fittings — HT

Cat. no.	Conduit size (in.)	Dimensions (in.)		
		A	B	C
5351-HT	$\frac{3}{8}$	$1\frac{1}{32}$	$1\frac{1}{16}$	$\frac{9}{16}$
5352-HT	$\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{7}{8}$	$\frac{9}{16}$
5353-HT	$\frac{3}{4}$	$1\frac{21}{32}$	$2\frac{1}{8}$	$\frac{9}{16}$
5354-HT	1	$1\frac{7}{8}$	$2\frac{1}{4}$	$\frac{3}{4}$
5355-HT	$1\frac{1}{4}$	$2\frac{9}{32}$	$2\frac{3}{4}$	$\frac{13}{16}$
5356-HT	$1\frac{1}{2}$	$2\frac{25}{32}$	$2\frac{9}{8}$	$\frac{13}{16}$
5357-HT	2	$3\frac{1}{4}$	$3\frac{3}{8}$	$\frac{7}{8}$

Diagram



LTXE flexible liquid-tight conduit

Cat. no.	Conduit size (in.)	Length (ft.)	Inside bend radius (in.)
LTXES01B-C	$\frac{3}{8}$	100	1.5
LTXES02B-C	$\frac{1}{2}$	100	2.0
LTXES03B-C	$\frac{3}{4}$	100	2.5
LTXES04B-C	1	100	3.0
LTXES05B-B	$1\frac{1}{4}$	50	3.5
LTXES06B-B	$1\frac{1}{2}$	50	4.5
LTXES07B-B	2	50	5.5
LTXES08B-A	$2\frac{1}{2}$	25	8.0
LTXES09B-A	3	25	10.0
LTXES11B-A	4	25	12.0



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