

BROCHURE

T&B Liquidtight Systems®

Liquidtight flexible metallic conduit & fittings
for every application



- High quality core materials and smooth jacket extrusions
- Full range of Liquidtight fittings and accessories to meet all application requirements
- Wide range of trade sizes from 3/8-inch to 6 inch
- Meeting global standards including CSA Heavy Duty testing requirements

T&B Liquidtight Systems flexible metallic conduits

Reliable liquidtight performance for every application

ABB T&B Liquidtight Systems, the industry leader in cable protection products, has expanded its top-quality line of liquidtight flexible metal conduits and fittings, making it easier than ever for you to find exactly what you need for your application.

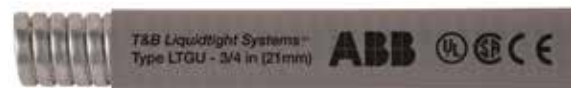
All T&B Liquidtight fittings and conduits have been rigorously tested to ensure that they meet the same special standards. Each product offers the highest quality core materials and jacket extrusions with trade sizes ranging from 3/8-inch to 6-inch (12 mm to 155 mm), meeting global standards including UL, CSA, IEC/EN or CE. The line covers a full range of ingress protection ratings and temperature ratings. So no matter what your application, the system solution you need is here.

Solution for EVERY application:

- General Purpose
- Aluminum
- Wide & Extreme Temperatures
- Computer Blue
- Halogen Free
- EMC (EMI/RF)
- Stainless Steel - **NEW!**
- Food & Beverage - **NEW!**

T&B Liquidtight Systems is now "Heavy Duty" compliant.

The 2018 Canadian Electric Code requires that liquidtight flexible metallic conduit used in hazardous location applications; namely Class I Div 2, Class II & Class III or Zone 2, Zone 20, Zone 21, Zone 22 be marked for "Heavy Duty". ABB now offers a range of liquidtight flexible metallic conduits which meets the rigorous testing requirements of CSA Standard C22.2 No.56-17 Annex A and are "HD" or "Heavy duty" marked to meet the requirements of the code.



For additional information
please refer to QR code

T&B Liquidtight Systems fittings

Engineered to perform in the toughest environments

T&B Liquidtight metallic flexible conduit fittings

- 1. Gland deflects water** away from connector and prevents "pooling" of moisture. Look for the distinctive pumpkin appearance of the gland nut.
- 2. Self-Cleaning Threads** inside gland nut keep dirt and grime out of the threads as you tighten.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. Precision Machined Rolled Threads** provide smooth, easy installations.
- 7. Tempered Cast Locknut with Teeth** provides superior strength and electrical bonding and can be installed without a wrench in the enclosure.
- 8. 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.



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



T&B Liquidtight flexible metallic conduit

Product overview



Part No.	LTGU	LTGE	LTGC	LTAE	LTTU	LTTE	LTXE	LT6XE	LTBU	
Typical application		General Purpose		Aluminium	Wide Temperature		Extreme Temperature		Comp. Blue	
Construction/materials										
Core material	Galv. Steel	Galv. Steel	Galv. Steel	Aluminium	Galv. Steel	Galv. Steel	Galv. Steel	SST 316L	Galv. Steel	
Jacket material	PVC	PVC	PVC	PVC	PVC	PVC	TPR	TPR	PVC	
Copper bonding wire	•	–	–	–	•	–	–	–	•	
Shielded, Copper Tin Braid	–	–	–	–	–	–	–	–	–	
Designed to UL 360 ID/OD Dim.	•	•	•	•	•	•	•	•	•	
Conduit Colours										
Standard	Grey	Grey	Black	Grey	Grey	Grey	Black	Black	Blue	
Optional (Optional)	Black	Black	–	Black	–	–	–	–	–	
Application specific	–	–	–	–	–	–	–	–	•	
Trade Sizes										
UL (inches)	3/8 - 4	3/8 - 6	3/8 - 4	3/8 - 6	3/8 - 4	3/8 - 6	3/8 - 4	3/8 - 4	3/8 - 4	
CSA (mm)	12 - 103	12 - 155	12 - 103	12 - 155	12 - 103	12 - 155	12 - 103	12 - 103	12 - 103	
ISO/BS EN (mm)	16 - 100	16 - 100	16 - 100	16 - 100	16 - 100	16 - 100	16 - 100	16 - 100	16 - 100	
Ingress Ratings (with appropriate fitting)										
UL 50E Indoor Type 4, 12, 13	•	•	•	•	•	•	•	•	•	
UL 50E Outdoor Type 3, 3R, 4	•	•	•	•	•	•	•	•	•	
CSA C22.2, No.94: 3, 3R, 4, 12, 13	•	•	•	•	•	•	•	•	•	
IEC/EN 60529 IP66, IP67	•	•	•	•	•	•	•	•	•	
NEMA 250: 3, 3R, 4, 12, 13	•	•	•	•	•	•	•	•	•	
NEMA 250: 4X	–	–	–	•	–	–	•	•	–	
Characteristics										
Temperature Ranges										
UL 360	Dry	°C	-30 to +80	–	–	–	-55 to +105	–	–	-30 to +80
CSA C22.2, No. 56	Dry	°C	-30 to +75	–	-40 to +75	–	-50 to +75	–	–	-30 to +75
General	Dry	°C	–	-20 to +80	–	-20 to +80	–	-55 to +105	-60 to +150	-60 to +150
IEC EN 61386-1, -23	General	°C	-25 to +90	-15 to +60	-45 to +90	-15 to +60	-45 to +105	-45 to +105	-45 to +150	-45 to +150
UV resistance	•	•	•	•	•	•	•	•	•	•
Flexible	•	•	•	•	•	•	•	•	•	•
Low fire hazard	–	–	–	–	–	–	•	•	•	–
Halogen free	–	–	–	–	–	–	•	•	•	–
EMI screen	–	–	–	–	–	–	–	–	–	–
Mechanical strength	High	Medium	High	Low	High	Medium	Medium	High	High	
Impact resistance	High	High	High	Low	High	High	High	High	High	
Small Bend Radius	•	•	•	–	•	•	•	•	–	
UL listed for Direct Burial	•	–	–	–	•	–	–	–	•	
Approvals										
UL 360 Listed	•	–	–	–	•	–	–	–	•	
CSA C22.2, No. 56	•	–	•	–	•	–	–	–	•	
CSA C22.2, No. 56 - Annex A "Heavy Duty"	•	–	•	–	–	–	–	–	•	
IEC/EN 61386-1, -23	•	•	•	•	•	•	•	•	•	
NSF certification	–	–	–	–	–	–	–	–	–	
RoHS	•	•	•	•	•	•	•	•	•	

• Available/Meets Requirements – Not applicable

T&B Liquidtight Fittings & Accessories

Product Overview



Products

Part No. Designation	Ser. 5200, 5300	Ser. 5200GR, 5300GR	Ser. 5200-PT, 5300-PT	Ser. 5300-HT
Typical Applications	General Purpose	General Purpose, Grounding	GP Quick Connect	Extreme Temperature
	Steel, Zinc Chromate	Steel, Zinc Chromate	Steel, Zinc Chromate	Steel, Zinc Chromate
Standards, Approvals & Certifications				
UL 514B	Listed	•	•	•
CSA C22.2, No. 18.3	Certified	•	•	•
IEC/EN 61386-1, -23	CE/EU DoC	•	•	•
RoHS	EU Directive	•	•	•
General Application & Installation Solutions				
General Purpose	•	•	•	•
Oil Resistant	•	•	•	•
Wide Temperature	•	•	•	•
Extreme Temperature	–	–	–	•
Aluminum	–	–	–	–
EMI/RFI	•	•	–	–
Data Center & Communications	•	•	–	–
Halogen Free	•	•	•	•
Stainless Steel	–	–	–	–
Food & Beverage	–	–	–	–
Indoor	•	•	•	•
Outdoor	•	•	•	•
Indoor/Outdoor High Corrosion	–	–	–	–
Orientation				
Straight	¾ to 6"	¾ to 6"	¾ to 1"	¾ to 6"
45°	¾ to 4"	¾ to 4"	¾ to 1"	¾ to 4"
90°	¾ to 4"	¾ to 4"	¾ to 1"	¾ to 4"
Trade Sizes				
UL (inches)	¾ to 6"	¾ to 6"	¾ to 1"	¾ to 6"
CSA (mm)	12 to 155mm	12 to 155mm	12 to 27mm	12 to 155mm
ISO/BS EN (mm)	16 to 100mm	16 to 100mm	16 to 32mm	16 to 100mm
Construction/Materials				
Insulation Types	Insulated, Non-insulated	Insulated, Non-insulated	Insulated, Non-insulated	Insulated
Steel/Iron, Zinc Chromate	•	•	•	•
Aluminum (Copper Free)	–	–	–	–
Stainless Steel 316	–	–	–	–
Nickel-Plated Brass	–	–	–	–
Working Temperatures (Static)				
UL 514B	°C	-20 to +105	-20 to +105	-20 to +105
CSA C22.2, No. 18	°C	-20 to +105	-20 to +105	-20 to +105
IEC/EN 61386-1, -23	°C	-25 to +105	-25 to +105	-60 to +150
System Ingress Ratings (Conduit, fittings & seals)				
UL 50E	Indoor	Type 4, 12, 13	•	•
	Outdoor	Type 3, 3R, 4	•	•
CSA C22.2, No. 94		3, 3R, 4, 12, 13	•	•
NEMA 250		3, 3R, 4, 12, 13	•	•
UL 50E, NEMA 250		4X	–	–
IEC/EN 60529		IP66, IP67	•	•

• Available/Meets Requirements

– Not applicable



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