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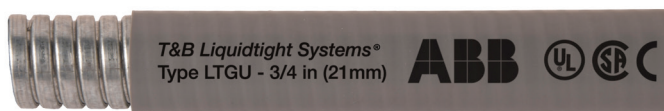
 TECHNICAL DATA SHEET

# Type LTGU - General Purpose UL Listed

## Liquid-tight flexible metallic conduit

### T&B Liquidtight Systems®

General Purpose, UL Listed Liquid-tight Flexible Metallic Conduits providing premier performance in the toughest applications




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**Features & Benefits:**

- Global certification to UL, CSA and IEC requirements
- High quality cores and jackets for excellent strength and durability
- Trade sizes from 3/8" to 4" (12mm to 100mm)
- Coordinated performance with Ser. 52/53 Steel Fittings
- UL, CSA and IP ingress protection ratings aligned with industrial enclosures
- Smooth extruded jackets provide best performance with fittings
- Conduit sizes 1/2" and up meets CSA Heavy Duty requirements, when used with series 5200/5300 liquid-tight fittings.

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**Applications:**

- General purpose, UL Listed industrial grade flexible metallic conduit
- Used extensively in machine tool and other industrial environments where flexibility is necessary for motion, vibration and bending
- Listed and marked for direct burial in earth or in poured concrete
- Liquid-tight applications against water, oils, cutting fluids and mild acids
- CSA Certified conduit is intended for use to Canadian Electrical Code as described in Section 12 for dry, damp or wet locations, and in Section 18 (J18), where flexibility is required.

**NEC Article 250 equipment grounding:**

- 3/8" and 1/2" — grounding in circuits up to 20A
- 3/4" to 1 1/4" — grounding in circuits up to 60A
- 1 1/2" to 4" — separate ground wire is required

**NEC installations in hazardous (classified) locations:**

- Article 501.10 (B) (2) & 501.30 (B) Class I Div. 2
- Article 502.10 (A) (2) & 502.30 (B) Class II Div. 1; 502.10 (B) (2) Class II Div. 2
- Article 503.10 (A) (2) & 503.30 (B) Class III Div. 1; 503.10 (A) (2) Class III Div. 2
- NEC Code requirements must be complied with when LFMC is used as Equipment Grounding Conductors

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**Construction / Material / Finish:**

- Hot-dipped zinc galvanized steel core
- PVC (polyvinyl chloride) extruded smooth jacket
- Inkjet printed technical information and ratings
- Full range of trade sizes from 3/8" to 4" (12 to 103mm)
- 3/8" to 1 1/4", integral copper bonding wire, square lock design
- 1 1/2" to 4" fully interlocked design
- Colors: machine tool gray standard; black optional

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**Environment ratings:**
**Working Temperature:**

- UL: Dry: -30 to + 80°C (-22 to +176°F)  
Oil: -30 to +70°C (-22 to +158°F)  
Wet: -30 to +60°C (-22 to +140°F)

**Certifications / Standards:**


- CSA: Dry: -30 to + 75°C (-22 to +167°F)  
Oil: -30 to +70°C (-22 to +158°F)  
Wet: -30 to +60°C (-22 to +140°F)
- IEC/CE: Gen: -25 to + 90°C (-13 to +194°F)

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**Chemical Resistance Guide:**

- See publication TDS000117

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**Conforms to:**

- UL 360, Liquid-tight Flexible Metal Conduits (LFMC)  
– UL file: E125517
- CSA C22.2 No. 56, Liquid-tight Flexible Metal Conduits (LFMC)  
– CSA file: LR-72635
- IEC 61386-1, -23, Conduit systems for cable management  
– EU doc: EC-012-16-102
- CE (Conformité Européene, European Conformity)
- RoHS (Restriction of Hazardous Substances directive)

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**Standards requirements:**
**Meets all UL 360 and CSA C22.2 No. 56, including:**

- ID and OD dimensions, Chemical and acid resistance, Flame retardant/self extinguishing, Abrasion resistance, UV protection, Crush resistance, Oil resistance, Bending resistance, Corrosion resistance
- CSA Heavy duty requirements

**Meets all IEC 61386-1, -23, including:**

- Compression strength – Code 4 heavy; 1250 N/50mm
- Impact strength – Code 4 heavy; 6 joules
- Tensile strength – Code 4 heavy; 1000 N/2 min.

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**Ingress Protection:**

- Provides "ingress integrity" between enclosures, fittings, conduits and seals when using LTGU conduits and Series 52/53 liquid-tight fittings and seals.
- Ingress ratings cover all trade sizes from 3/8" to 4" (12 .. 103mm)

**UL CSA & NEMA system ingress ratings:**

- Type ratings tested to UL50E requirements
- UL File No.: E23018
  - Indoor: Type 4, 12, 13
  - Outdoor: Type 3, 3R, 4
- CSA C22.2, No. 94.2: Type 3, 3R, 4, 12, 13
- NEMA 250: Type 3, 3R, 4, 12, 13

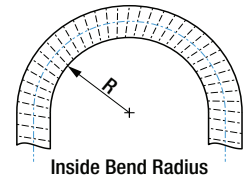
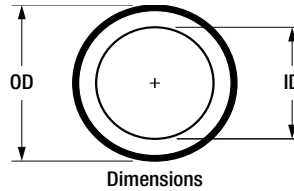
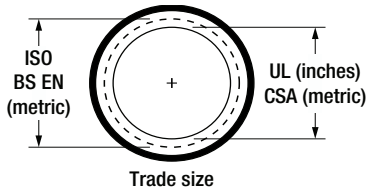
**IEC system ingress ratings:**

- IP Ingress Protection per IEC 60529 requirements
- IEC Ingress Ratings: IP66, IP67

**Type LTGU - General Purpose, UL Listed**  
**Product selection and dimensions**

**Product selection**

Trade size			Carton		Standard reel		Coil Length		Bulk reel		Weight					
UL	CSA	ISO BS EN	Part No./GID		Feet	Meter	Part No./GID		Feet	Meter	Part No./GID		Feet	Meter	lbs/ft	kg/m
Inches	mm	mm	Part No./GID		Feet	Meter	Part No./GID		Feet	Meter	Part No./GID		Feet	Meter	lbs/ft	kg/m
3/8	12	16	LTGUS01G-C		100	30	LTGUS01G-K		500	150	LTGUS01G-L		1,000	300	0.29	0.43
			7TAA012LNOR0000				7TAA012LNOR0020				7TAA012LNOR0040					
1/2	16	20	LTGUS02G-C		100	30	LTGUS02G-K		500	150	LTGUS02G-L		1,000	300	0.32	0.48
			7TAA012LNOR0001				7TAA012LNOR0021				7TAA012LNOR0041					
3/4	21	25	LTGUS03G-C		100	30	LTGUS03G-K		500	150	LTGUS03G-L		1,000	300	0.53	0.79
			7TAA012LNOR0002				7TAA012LNOR0022				7TAA012LNOR0042					
1	27	32	LTGUS04G-C		100	30	LTGUS04G-J		400	120	-		-	-	0.82	1.22
			7TAA012LNOR0003				7TAA012LNOR0023									
1 1/4	35	40	LTGUS05G-B		50	15	LTGUS05G-E		200	60	-		-	-	1.02	1.52
			7TAA012LNOR0004				7TAA012LNOR0024									
1 1/2	41	50	LTGUS06G-B		50	15	LTGUS06G-D		150	45	-		-	-	1.24	1.84
			7TAA012LNOR0005				7TAA012LNOR0025									
2	53	70	LTGUS07G-B		50	15	LTGUS07G-C		100	30	-		-	-	1.45	2.16
			7TAA012LNOR0006				7TAA012LNOR0026									
2 1/2	63	70	LTGUS08G-A		25	8	LTGUS08G-G		275	80	-		-	-	1.92	2.86
			7TAA012LNOR0007				7TAA012LNOR0027									
3	78	80	LTGUS09G-A		25	8	LTGUS09G-P		175	50	-		-	-	2.52	3.75
			7TAA012LNOR0008				7TAA012LNOR0028									
4	103	100	LTGUS11G-A		25	8	LTGUS11G-C		100	30	-		-	-	3.50	5.21
			7TAA012LNOR0009				7TAA012LNOR0029									



**Dimensions**

Part number	Trade Size			Minimum inside bend radius				Inches				Millimeters			
	UL	CSA	ISO BS EN	Static		Dynamic		Inside (ID)		Outside (OD)		Inside (ID)		Outside (OD)	
				Inches	mm	Inches	mm	Min	Max	Min	Max	Min	Max	Min	Max
LTGUS01G-*	3/8	12	16	2.0	51	4.0	102	0.484	0.504	0.690	0.710	12.3	12.8	17.5	18.0
LTGUS02G-*	1/2	16	20	3.0	76	5.0	127	0.622	0.642	0.820	0.840	15.8	16.3	20.8	21.3
LTGUS03G-*	3/4	21	25	4.2	107	6.0	152	0.820	0.840	1.030	1.050	20.8	21.3	26.2	26.7
LTGUS04G-*	1	27	32	5.5	140	12.0	305	1.041	1.066	1.290	1.315	26.4	27.1	32.8	33.4
LTGUS05G-*	1 1/4	35	40	7.0	178	15.0	381	1.380	1.410	1.630	1.660	35.1	35.8	41.4	42.2
LTGUS06G-*	1 1/2	41	50	4.5	114	17.0	432	1.575	1.600	1.865	1.900	40.0	40.6	47.4	48.3
LTGUS07G-*	2	53	63	6.0	152	22.0	559	2.020	2.045	2.340	2.375	51.3	51.9	59.4	60.3
LTGUS08G-*	2 1/2	63	70	8.0	203	30.0	762	2.480	2.505	2.840	2.875	63.0	63.6	72.1	73.0
LTGUS09G-*	3	78	80	10.0	254	36.0	914	3.070	3.100	3.460	3.500	78.0	78.7	87.9	88.8
LTGUS11G-*	4	103	100	12.0	305	52.0	1,321	4.000	4.040	4.460	4.500	101.6	102.6	113.3	114.3

Note: Products must be installed in accordance with applicable national and local electrical codes

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