Technical Data Sheet

Type LTGU - general purpose UL Listed Liquid-tight flexible metallic conduit

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

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

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

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**

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

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)

- CSA:

Dry: $-30 \text{ to} + 75^{\circ}\text{C} (-22 \text{ to} + 167^{\circ}\text{F})$ Oil: -30 to +70°C (-22 to +158°F)

Wet: -30 to +60°C (-22 to +140°F)

Gen: -25 to + 90°C (-13 to +194°F)

Chemical resistance guide:

- See publication TDS000117

T&B Liquidtight Systems™



Certifications / Standards:









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)

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

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.

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 rating:

- Type ratings tested to UL 50/50E requirements
- UL file: E23018

Indoor: Type 4, 12, 13

Outdoor: Type 3, 3R, 4

- CSA C22.2, No. 94: Type 3, 3R, 4, 12, 13
- NEMA 250: Type 3, 3R, 4, 12, 13

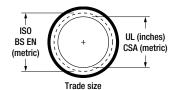
IEC system ingress rating:

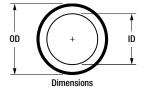
- IP ingress protection per IEC 60529 requirements
- IEC rating: IP66. IP67

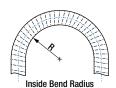


Type LTGU – general purpose, UL Listed Product selection and dimensions

Product	selecti	on											
Trade si	ze		Coil length				.						
UL	CSA	ISO BS EN	Carton			Standard reel			Bulk reel			Weight	
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
			7TAA012LN0R0000			7TAA012LN0R0020			7TAA012LN0R0040				
1/2	16	20	LTGUS02G-C	100	30	LTGUS02G-K	500	150	LTGUS02G-L	1,000	300	0.32	0.48
			7TAA012LN0R0001			7TAA012LN0R0021			7TAA012LN0R0041				
3/4	21	25	LTGUS03G-C	100	30	LTGUS03G-K	500	150	LTGUS03G-L	1,000	300	0.53	0.79
			7TAA012LN0R0002			7TAA012LN0R0022			7TAA012LN0R0042				
1	27	32	LTGUS04G-C	100	30	LTGUS04G-J	400	120	_	_	_	0.82	1.22
			7TAA012LN0R0003			7TAA012LN0R0023							
1-1/4	35	40	LTGUS05G-B	50	15	LTGUS05G-E	200	60	_	_	_	1.02	1.52
			7TAA012LN0R0004			7TAA012LN0R0024							
1-1/2	41	50	LTGUS06G-B	50	15	LTGUS06G-D	150	45	_	_	_	1.24	1.84
			7TAA012LN0R0005			7TAA012LN0R0025							
2	53	63	LTGUS07G-B	50	15	LTGUS07G-C	100	30	_	_	_	1.45	2.16
			7TAA012LN0R0006			7TAA012LN0R0026							
2-1/2	63	70	LTGUS08G-A	25	8	LTGUS08G-G	275	80	_	_	_	1.92	2.86
			7TAA012LN0R0007			7TAA012LN0R0027							
3	78	80	LTGUS09G-A	25 8	8	LTGUS09G-P	175	50	_	_	_	2.52	3.75
			7TAA012LN0R0008			7TAA012LN0R0028							
4	103	100	LTGUS11G-A	25 8	8	LTGUS11G-C	100	30	_	_	_	3.50	5.21
			7TAA012LN0R0009			7TAA012LN0R0029							







	Trade size				Minimum inside bend radius							Millimeters			
	UL Inches	CSA mm	ISO BS EN mm	Static		Dynamic		Inside (ID)		Outside (OD)		Inside (ID)		Outside (OD)	
Part number				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: Product must be installed in accordance with applicable national and local electrical codes.

Contact us

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