
 TECHNICAL DATA SHEET

Type LTGC – General Purpose, CSA Certified

Liquid-tight flexible metallic conduit

T&B Liquidtight Systems®



Features & Benefits:

- Meets CSA C22.2 No. 56 ID/OD dimension requirements
- Full compliance to IEC 61386 requirements, CE Marked
- Conduit sizes ½" and up meets CSA Heavy duty requirements, when used with series 5200/5300 liquid-tight fittings.
- Trade sizes from ¾" to 4" (12mm to 103mm)
- Ingress protection ratings aligned with industrial enclosures
- Smooth extruded jackets provide superior performance with fittings

Applications:

- 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
- Ideal for machine and equipment, OEMs, panel builders and industrial, light manufacturing, commercial and outdoor installations
- Liquid tight applications against water, oils, cutting fluids, mild acids
- For use in electrical circuits up to 1,000 V
- CSA certified for Direct burial in accordance with CE Code

Canadian Electrical Code installations in hazardous locations:

- Section 18-152(1)(h) Zone 2
- Section 18-192(3)(a) Zone 20
- Section 18-202(4)(a) Zone 21
- Section 18-252(1)(h) Zone 22

Canadian Electric Code installations in hazardous locations classified using division system

- Section J18-152(1)(h) Class I, Division 2
- Section J18-204(4)(b) Class II, Division 1
- Section J18-254(1)(h) Class II, Division 2
- Section J18-304(1)(f) Class III, Division 1
- Section J18-354(h) Class III, Division 2

Construction / Material / Finish:

- Hot-dipped zinc galvanized steel core
- PVC (polyvinyl chloride) extruded smooth jacket
- Ink jet printed ratings and technical information
- Full range of trade sizes from ¾" to 4" (12 to 103mm)
 - ¾" to 1¼", Square Lock design with cord filler
 - 1½" to 4", fully interlocked design
- Color: Black (standard), other colors on request

General Purpose, CSA Certified Liquid-tight Flexible Metallic Conduit provides excellent strength and liquid-tight performance, meeting Canadian Electrical Code requirements

Certifications / Standards:


Environment ratings:
Working Temperature:

- CSA: Dry: -40 to +75°C (-40 to +167°F)
Oil: -40 to +70°C (-40 to +158°F)
Wet: -40 to +60°C (-40 to +140°F)
- IEC/CE: Dry: -45 to +90°C (-49 to +176°F)

FT4 Flame retardant
Chemical resistance guide:

- See publication TDS000117

Conforms to:

- CSA C22.2 No. 56, Liquid-tight Flexible Metal Conduits (LFMC)
 - CSA File: 72635
- IEC 61386-1, -23, Conduit Systems for Cable Management
 - EU Doc: EC-012-16-158
- RoHS (Restriction of Hazardous Substances Directive)

Standards requirements:
Meets all CSA C22.2 No. 56 standards requirements including:

- ID and OD dimensions, chemical & acid resistance, flame retardant & self-extinguishing, abrasion resistance, UV protection, crush resistance, oil resistance, corrosion resistance and bending strength
- CSA Heavy duty requirements

Meets all IEC 61386-1, -23 standard requirements 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 & seals (CSA LR-4484)
- Covers all trade sizes from ¾" to 4" (12 .. 103mm)

CSA & NEMA system ingress rating:

- CSA Certified type ratings in compliance with CSA C22.2 No. 94.2 requirements
- CSA C22.2, No. 94.2: Type 3, 3R, 4, 12, 13
- NEMA 250: Type 3, 3R, 4, 12, 13

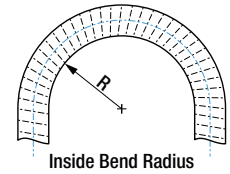
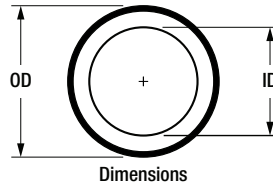
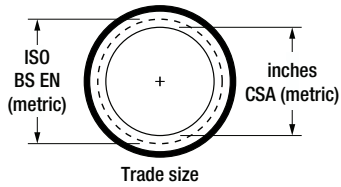
IEC system ingress rating:

- IP ingress protection per IEC 60529 requirements
- IEC ingress Ratings: IP66, IP67

Type LTGC - General Purpose, CSA Certified
Product selection and dimensions

Product selection

Trade size	Coil Length		Carton		Standard reel		Bulk reel		Weight				
	CSA	ISO BS EN	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	lbs/ft	kg/m
3/8	12	16	LTGCS01B-C	100	30	LTGCS01B-K	500	150	LTGCS01B-L	1,000	300	0.29	0.43
			7TAA012LH0R0000			7TAA012LH0R0010			7TAA012LH0R0017				
1/2	16	20	LTGCS02B-C	100	30	LTGCS02B-K	500	150	LTGCS02B-L	1,000	300	0.32	0.48
			7TAA012LH0R0001			7TAA012LH0R0011			7TAA012LH0R0018				
3/4	21	25	LTGCS03B-C	100	30	LTGCS03B-K	500	150	LTGCS03B-L	1,000	300	0.53	0.79
			7TAA012LH0R0002			7TAA012LH0R0012			7TAA012LH0R0019				
1	27	32	LTGCS04B-C	100	30	LTGCS04B-J	400	120	-	-	-	0.82	1.22
			7TAA012LH0R0003			7TAA012LH0R0013							
1 1/4	35	40	LTGCS05B-B	50	15	LTGCS05B-E	200	60	-	-	-	1.02	1.52
			7TAA012LH0R0004			7TAA012LH0R0014							
1 1/2	41	50	LTGCS06B-B	50	15	LTGCS06B-D	150	45	-	-	-	1.24	1.84
			7TAA012LH0R0005			7TAA012LH0R0015							
2	53	70	LTGCS07B-B	50	15	LTGCS07B-C	100	30	-	-	-	1.45	2.16
			7TAA012LH0R0006			7TAA012LH0R0016							
2 1/2	63	70	LTGCS08B-A	25	8	-	-	-	-	-	-	1.92	2.86
			7TAA012LH0R0007										
3	78	80	LTGCS09B-A	25	8	-	-	-	-	-	-	2.52	3.75
			7TAA012LH0R0008										
4	103	100	LTGCS11B-A	25	8	-	-	-	-	-	-	3.50	5.21
			7TAA012LH0R0009										



Dimensions

Part number	Trade Size		Minimum inside bend radius				Inches				Millimeters			
	CSA ISO BS EN		Static		Dynamic		Inside (ID)		Outside (OD)		Inside (ID)		Outside (OD)	
	Inches	mm	Inches	mm	Inches	mm	Min	Max	Min	Max	Min	Max	Min	Max
LTGCS01B-*	3/8	12	2.0	51	4.0	102	0.484	0.504	0.690	0.710	12.3	12.8	17.5	18.0
LTGCS02B-*	1/2	16	3.3	84	5.0	127	0.622	0.642	0.820	0.840	15.8	16.3	20.8	21.3
LTGCS03B-*	3/4	21	4.3	109	6.0	152	0.820	0.840	1.030	1.050	20.8	21.3	26.2	26.7
LTGCS04B-*	1	27	6.5	165	12.0	305	1.041	1.066	1.290	1.315	26.4	27.1	32.8	33.4
LTGCS05B-*	1 1/4	35	8.0	203	15.0	381	1.380	1.410	1.630	1.660	35.1	35.8	41.4	42.2
LTGCS06B-*	1 1/2	41	9.0	229	17.0	432	1.575	1.600	1.865	1.900	40.0	40.6	47.4	48.3
LTGCS07B-*	2	53	11.0	279	22.0	559	2.020	2.045	2.340	2.375	51.3	51.9	59.4	60.3
LTGCS08B-*	2 1/2	63	14.8	376	30.0	762	2.480	2.505	2.840	2.875	63.0	63.6	72.1	73.0
LTGCS09B-*	3	78	17.5	445	36.0	914	3.070	3.100	3.460	3.500	78.0	78.7	87.9	88.8
LTGCS11B-*	4	103	24.0	610	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