TECHNICAL DATA SHEET

Type LTGC – General Purpose, CSA Certified
Liquid-tight flexible metallic conduit

T&B Liquidtight Systems®

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

Certifications / Standards:

Features & Benefits:
- Meet CSA C22.2 No. 56 ID/OD dimension requirements
- Full compliance to IEC 61386 requirements, CE Certified
- Conduit sizes ½" and up meets CSA Heavy duty requirements, when used with series 5200/5300 liquid-tight fittings.
- Trade sizes from ⅜" to 4" (12mm to 103mm)
- CSA & IP ingress protection ratings aligned with industrial enclosures
- Smooth extruded jackets provide best 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

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 ⅜" to 4" (12 to 103mm)
  - ⅜" to 1¼", Square Lock design with cord filler
  - 1½" to 4", fully interlocked design
- Color: Black (standard), other colors on request

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)

Chemical resistance guide:
- See publication TDS000117

Conforms to:
- 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-012-16-158
- 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 extinguish, 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 when using LTGC conduits and Series 52/53 Liquidtight Fittings
- Covers all trade sizes from 3/8” to 4” (12 .. 103mm)

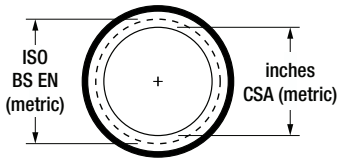
CSA & NEMA system ingress rating:
- CSA Certified type ratings in compliance with CSA C22.2 No. 94.2 requirements
- CSA file no.: LR-4484
- CSA C22.2, No. 94.2: Type 3, 3R, 4, 12, 13
- NEMA 250: Type 3, 3R, 4, 12, 13

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

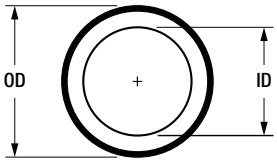
Type LTGC - General Purpose, CSA Certified
Product selection and dimensions

Product selection

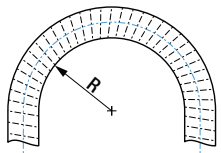
Trade size														
											Coil Length			
	CSA	ISO BS EN			Carton			Standard reel			Bulk reel			Weight
Inches	mm	mm	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	lbs/ft	kg/m
⅜	12	16	LTGCS01B-C 7TAA012LH0R0000	100	30	LTGCS01B-K 7TAA012LH0R0010	500	150	LTGCS01B-L 7TAA012LH0R0017	1,000	300	0.29	0.43
½	16	20	LTGCS02B-C 7TAA012LH0R0001	100	30	LTGCS02B-K 7TAA012LH0R0011	500	150	LTGCS02B-L 7TAA012LH0R0018	1,000	300	0.32	0.48
¾	21	25	LTGCS03B-C 7TAA012LH0R0002	100	30	LTGCS03B-K 7TAA012LH0R0012	500	150	LTGCS03B-L 7TAA012LH0R0019	1,000	300	0.53	0.79
1	27	32	LTGCS04B-C 7TAA012LH0R0003	100	30	LTGCS04B-J 7TAA012LH0R0013	400	120	–	–	–	0.82	1.22
1¼	35	40	LTGCS05B-B 7TAA012LH0R0004	50	15	LTGCS05B-E 7TAA012LH0R0014	200	60	–	–	–	1.02	1.52
1½	41	50	LTGCS06B-B 7TAA012LH0R0005	50	15	LTGCS06B-D 7TAA012LH0R0015	150	45	–	–	–	1.24	1.84
2	53	70	LTGCS07B-B 7TAA012LH0R0006	50	15	LTGCS07B-C 7TAA012LH0R0016	100	30	–	–	–	1.45	2.16
2½	63	70	LTGCS08B-A 7TAA012LH0R0007	25	8	–	–	–	–	–	–	1.92	2.86
3	78	80	LTGCS09B-A 7TAA012LH0R0008	25	8	–	–	–	–	–	–	2.52	3.75
4	103	100	LTGCS11B-A 7TAA012LH0R0009	25	8	–	–	–	–	–	–	3.50	5.21



Trade size



Dimensions



Inside Bend Radius

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	mm	Inches	mm	Inches	mm	Min	Max	Min	Max	Min	Max	Min	Max
LTGCS01B-*	⅜	12	16	2.0	51	4.0	102	0.484	0.504	0.690	0.710	12.3	12.8	17.5	18.0
LTGCS02B-*	½	16	20	3.3	84	5.0	127	0.622	0.642	0.820	0.840	15.8	16.3	20.8	21.3
LTGCS03B-*	¾	21	25	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	32	6.5	165	12.0	305	1.041	1.066	1.290	1.315	26.4	27.1	32.8	33.4
LTGCS05B-*	1¼	35	40	8.0	203	15.0	381	1.380	1.410	1.630	1.660	35.1	35.8	41.4	42.2
LTGCS06B-*	1½	41	50	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	63	11.0	279	22.0	559	2.020	2.045	2.340	2.375	51.3	51.9	59.4	60.3
LTGCS08B-*	2½	63	70	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	80	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	100	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

tnb.abb.com (US/Latin America)
tnb.ca.abb.com (Canada)
abb.com