Type LA

A flexible steel conduit which is both listed by Underwriters Laboratories Inc. and certified by Canadian Standards Association for "Heavy-Duty" applications. It offers outstanding protection against sunlight (UV), wet, oily conditions, and is permitted for use in exposed or concealed locations.

All Products Proudly Made in the USA

Construction:

Inner Core:

- Hot Dipped Galvanized Steel
- 3/8" – 1-1/4" Squarelock Profile with continuous bonding strip
- 1-1/2" – 4" Fully Interlocked Profile

Liquidtight Jacket:

- Flexible PVC
- Resistant to **Oils and Mild Acids**
- Flame Retardant/Self-Extinguishing
- Excellent Sunlight Resistance (UV)
  - Type LA gray jacketing outperforms the UL360 UV aging test by 4 times
  - Type LA black jacketing outperforms the UL360 UV aging test by 5 times
- Marked HD for "Heavy-Duty"
- Dynamic Flexibility, Limited

Application:

This conduit is intended for installation in accordance with Article 350 of the NEC (ANSI/NFPA-70) and in section 14.5.4 of the ANSI/NFPA-79 Standard for Industrial Machinery:

- Listed and marked for Direct Burial and in Poured Concrete
- For containment of 1000 volt and lower potential circuits
- Suitable as a grounding conductor when used for circuits rated up to 20A for the 3/8 & 1/2 inch trade sizes and 60A for the 3/4 through 1-1/4 inch trade sizes in lengths six feet or less per NEC Article 250.118(6). Larger sizes require separate grounding conductor.
- Installations in hazardous (classified) locations:
  - Class I Div. 2: Article 501.10 (B)(2) & 501.30 (B)
  - Class II Div. 1: Article 502.10 (A)(2) & 502.30 (B) Div. 2: 502.10 (B)(2)
  - Class III Div. 1: Article 503.10 (A)(3) & 503.30 (B) Div. 2: 503.10 (B)

Product Information

CERTIFICATIONS & COMPLIANCE

Listed File # E29278. Conforms to Underwriters Laboratories Standard ANSI/UL-360 for Liquidtight Flexible Steel conduit.

Certified File #LL18858. Conforms to CSA Standard C22.2 No 56-17. Conforms to Annex A "Heavy-Duty" in sizes 1/2" or larger. FT1

WEEE and RoHS Compliant

BS EN IEC 61386 Classification Code 444240650414 **CE Declaration**

ARRA: For ARRA Certification Letter, please click here

BABA Compliant

STANDARD COLORS

Machine Tool Gray and Black. **Other colors available upon request**.

- Installed under raised floors in Data Processing Areas Articles 645.5 (E)
- Electric Signs and Outline Lighting over 1000 volts Articles 600.7/600.32(A)(1)
- Permitted for Service Entrance wiring to six feet Article 230.43
- Used as Feeders and Services at Marinas and Boatyards Article 553.7(B)
- Wiring on Building Article 225.10
- Conductor Enclosures Adjacent to Motors over 1000 V Article 430.223
- Underground Service, Feeder, Branch Circuit, and Recreational Vehicle Site Feeder Circuit Conductors Article 551.80
- Elevators and Hoistways Article 620.21
- Pools and Fountains Article 680
- Bodies of water. Article 682
- Fire Pumps. Article 695

This conduit is intended for use according to the Canadian Electrical Code (CEC CSA 22.1-18) as described in clause 12-1300 for dry, damp or wet locations.

- Conforms to CSA C22.2 No. 56-17 Annex A “Heavy Duty”

Hazardous Locations areas where flexibility is necessary:

- Class I Div 2: CSA 22.1 J18-152 (1) (i)
- Class II Div 1: CSA 22.1 J18-204 (4) (b)
- Class II Div 2: CSA 22.1 J18-254 (1) (h)
- Class III Div 1: CSA 22.1 J18-304 (1) (f)
- Class III Div 2: CSA 22.1 J18-354 (h)
- Zone 2: CSA 22.1 18-152 (1) (h)
- Zone 20: CSA 22.1 18-192 (3) (a)
- Zone 21: CSA 22.1 18-202 (4) (a)
- Zone 22: CSA 22.1 18-252 (1) (h)

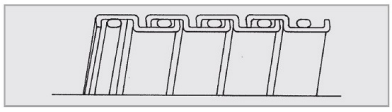
Markets:

Aerospace, Cell Towers, Construction, Data Centers, Datacomm, Defense, Fixture / AC Whips, Healthcare, Machine Tool (OEM), Mining, Oil & Gas Refineries, Power Plants, Renewable Energy, Security, Ship Building, Steel Mills, Telecommunications, Utilities, Wastewater Treatment

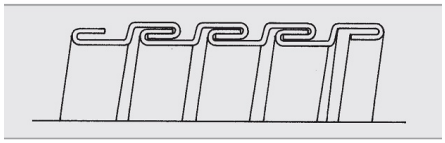
WORKING TEMPERATURES

-30°C to 80°C Dry / 60°C Wet / 70°C Oil

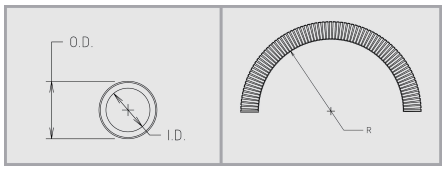
-22°F to 176°F Dry / 140°F Wet / 158°F Oil



Squarelock with Filler: sizes 3/8" - 1-1/4"



Interlock sizes: 1-1/2" - 4"



Product Table

	US Trade Size	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
	ISO (MM)	16	20	25	32	40	50	63	70	80	90	100
	CSA (MM)	12	16	21	27	35	41	53	63	78	91	103
	Type	LA-10	LA-11	LA-12	LA-13	LA-14	LA-15	LA-16	LA-17	LA-18	LA-350	LA-19
Internal Diameter	Min (MM)	12.3	15.8	20.8	26.4	35.1	40.0	51.3	63.0	78.0	88.9	101.6
	Max (MM)	12.8	16.3	21.3	27.1	35.8	40.6	51.9	63.6	78.7	89.9	102.6
Outside Diameter	Min (MM)	17.5	20.8	26.2	32.8	41.4	47.4	59.4	72.1	87.9	100.6	113.3
	Max (MM)	18.0	21.3	26.7	33.4	42.2	48.3	60.3	73.0	88.9	101.6	114.3
Inside Bend Radius	Static (MM)	51	83	108	165	203	229	283	375	445	508	610
	Dynamic (MM)	102	127	152	305	381	432	559	762	915	1092	1321
Weight	(Kgs) per 30 meters	13.2	14.5	24.0	37.2	46.3	56.2	65.8	87.1	114.3	139.7	158.8
Standard Length	Carton (Mtrs)	30.0	30.0	30.0	30.0	15.0	15.0	15.0	8.0	8.0	8.0	8.0
	Part # (Gray)	20101	21101	22101	23102	24102	25102	26102	27102	28102	28502	29102
	Part # (Black)	20801	21801	22801	23802	24802	25802	26802	27802	28802		29502
	Reel (Mtrs)	150.0	150.0	150.0	120.0	60.0	45.0	30.0	85.0	55.0	55.0	30.0
	Part # (Gray)	20103	21103	22104	23104	24104	25104	26104	27105	28105	28505	29105
	Part # (Black)	20803	21803	22804	23804	24804	25804	26804	27805	28805		29505
	Reel (Mtrs)	300.0	300.0	300.0								
	Part # (Gray)	20104	21104	22110								
	Part # (Black)	20804	21804	22810								

related products

Type CBLA

Computer Blue LA (CBLA) is a liquidtight flexible steel conduit commonly used for computer room installations. The blue jacket color easily identifies circuitry for computer power wiring. It is listed by Underwriters Laboratories Inc. and certified by Canadian Standards Association for “Heavy-Duty” applications.

see product detail »

Type ATLA

A liquidtight flexible steel conduit designed specifically for extreme hot or cold environments. The flexible inner core is identical to that found in Type LA. The specially formulated PVC jacket remains flexible at low temperatures and resists aging at elevated temperatures. It is listed by Underwriters Laboratories Inc. and certified by Canadian Standards Association

see product detail »

Type ZHLA

Non-halogen, low smoke and low flame spread make Type ZHLA a proven choice for applications where limiting toxic materials of combustion are an important issue. Since ZHLA is also UL listed, it is

Type LAFG

A UL Listed, CSA Certified, flexible liquidtight steel conduit that is now antimicrobial and is designed for a variety of installations regarding motion, vibration, and bending on food processing equipment.