# Type LA

*A flexible steel conduit which is both listed by Underwriters Laboratories Inc. and certified by Canadian Standards Association. It offers outstanding protection against 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
- Sunlight Resistant (UV)

## 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(7). 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 502.1 (A)(2) & 502.30 (B) Div. 2: 502.10 (B)(2)
  - Class III Div. 1: Article 503.10 (A)(2) & 503.30 (B) Div. 2: 503.10 (A)(2)
- Installed under raised floors in Data Processing Areas Articles 645.5 (2)
- 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

## 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 22.2 No.56 for use per the Canadian Electrical Code C22.1 Section 12-1300. FT1

WEEE and RoHS Compliant

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

**ARRA:** For ARRA Certification Letter, please click here

### STANDARD COLORS

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

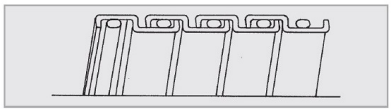
- Conductor Enclosures Adjacent to Motors over 1000 V Article 430.223
- Underground Service, Feeder, Branch Circuit, and Recreational Vehicle Site Feeder Circuit Conductors Article 551.80
- Elevators and Hoistways Article 620.21
- Pools and Fountains Article 680
- Bodies of water. Article 682
- Fire Pumps. Article 695

## WORKING TEMPERATURES

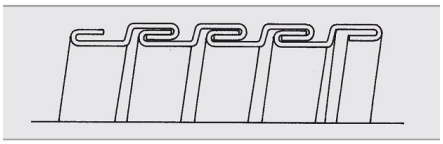
-30°C to 80°C Dry / 60°C Wet / 70°C Oil

## Markets:

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



Squarelock with Filler: sizes 3/8" - 1-1/14"



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 (IN.) | 0.484 | 0.622 | 0.820 | 1.041 | 1.380 | 1.575 | 2.020 | 2.480 | 3.070 | 3.500 | 4.000 |
| | Max (IN.) | 0.504 | 0.642 | 0.840 | 1.066 | 1.410 | 1.600 | 2.045 | 2.505 | 3.100 | 3.540 | 4.040 |
| Outer Diameter | Min (IN.) | 0.690 | 0.820 | 1.030 | 1.290 | 1.630 | 1.865 | 2.340 | 2.840 | 3.460 | 3.960 | 4.460 |
| | Max (IN.) | 0.710 | 0.840 | 1.050 | 1.315 | 1.660 | 1.900 | 2.375 | 2.875 | 3.500 | 4.000 | 4.500 |
| Inside Bend Radius | Static (IN.) | 2.0 | 3.0 | 4.2 | 5.5 | 7.0 | 4.5 | 6.0 | 8.0 | 10.0 | 11.0 | 12.0 |
| | Dynamic (IN.) | 4.0 | 5.0 | 6.0 | 12.0 | 15.0 | 17.0 | 22.0 | 30.0 | 36.0 | 43.0 | 52.0 |
| Weight | Lbs. per 100 Ft | 29 | 32 | 53 | 82 | 102 | 124 | 145 | 192 | 252 | 308 | 350 |
| Standard Length | Carton (Ft.) | 100 | 100 | 100 | 100 | 50 | 50 | 50 | 25 | 25 | 25 | 25 |
| | 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 (Ft.) | 500 | 500 | 500 | 400 | 200 | 150 | 100 | 275 | 175 | 175 | 100 |
| | 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 (Ft.) | 1000 | 1000 | 1000 | | | | | | | | |
| | 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.

**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 and CSA Certified, it is ideal for field installation in confined, public areas such as subways, tunnels, etc.

**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 »**