



Type ZHLA

Part of the Zero-Halogen Flexible Conduit Family.

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 ideal for field installation in confined, public areas such as subways, tunnels, etc.





All Products Proudly Made in the USA

Construction:

Inner Core:

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

Liquidtight Jacket:

- Low Smoke Zero-Halogen Thermoplastic
- Resistant to Chemicals and Oils
- Flame Retardant
- Low Smoke
- Low Toxicity
- Sunlight Resistant (UV)

Application:

- Meets ASTM E162 for Flame Spread
- \bullet Meets the requirements of Bombardier SMP 800-C for Toxic Gas Generation.
- Meets the requirements of ASTM E662 for Smoke Generation.
- NFPA130 approved

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 | Div. 2: Article 501.10 (B)(2) & 501.30 (B)

Product Information

CERTIFICATIONS & COMPLIANCE

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

WEEE and RoHS Compliant

BS EN IEC 61386 Classification
Code 445240650414 CE

Declaration

ARRA: For ARRA Certification Letter, please click here.

Buy America: For Buy America Certification Letter, please **click**

BABA Compliant

STANDARD COLORS

Black.

WORKING TEMPERATURES

UL: -20°C to 105°C Air / 60°C Wet

UL: -4°F to 221°F Air / 140°F Wet

- 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)
- 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

Combustion & Flammability Properties

Properties		
COMBUSTION & FLAMMABILITY	TEST	

Vertical Burn (Material) UL94 (V-0)

Vertical Burn (Conduit) UL360

Oxygen Index % D2863

Flame Spread Index ASTM E162

Smoke Generation (Flaming) ASTM E662 (NFPA 258)

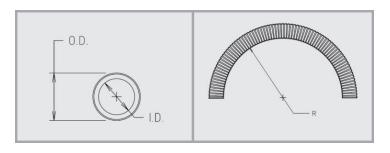
Smoke Generation (Non-Flaming) ASTM E662 (NFPA 258)

Toxic Gas Generation BOMBARDIER SMP 800-C

Toxicity Index NES 713

Markets:

Construction, Data Centers, DataComm, Defense, Healthcare, Mining, Oil & Gas Refineries, Power Plants, Rail/Transit, Renewable Energy, Security, Ship Building, Steel Mills, Telecommunications, Utilities



^{*} Test data is based on controlled laboratory conditions and does not necessarily reflect performance in actual fire conditions. Additional product information available upon request.

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
	Туре	ZHLA- 10	ZHLA- 11	ZHLA- 12	ZHLA- 13	ZHLA- 14	ZHLA- 15	ZHLA- 16	ZHLA- 17	ZHLA- 18	ZHLA- 350	ZHLA- 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	279	368	445	508	610
Weight	(Kgs) per 30 meters	13	15	24	37	46	56	66	87	114	140	159
Standard Length	Carton (Mtrs)	30	30	30	30	15	15	15	8	8	8	8
	Part # (Black)	88101	88111	88121	88132	88142	88152	88162	88172	88182	88187	88192
	Reel (Mtrs)	150	150	150	120	60	45	30				
	Part # (Black)	88103	88113	88124	88134	88144	88154	88164				
	Reel (Mtrs)	300	300	300								
	Part # (Black)	88104	88114	88125								

related products



Type ZHSS

This non-UL liquidtight flexible stainless steel conduit is designed for applications where safety concerns exist regarding a material's reaction in a fire situation. It offers excellent resistance to corrosion.

see product detail >>



Type ATX

A non-UL Liquidtight Flexible Steel conduit designed to withstand an extreme temperature range.

see product detail >>



Type CEA

This non-UL liquidtight flexible steel conduit is designed for applications where safety concerns exist regarding a material's reaction in a fire situation

see product detail >>



Type HFSLA

Part of the SHIELD-FLEX® family of EMI/RFI Shielding conduits. Type HFSLA is identical to standard UL Listed liquidtight flexible steel conduit (See Type LA) but is augmented with a tinned copper shielding braid located over the inner steel core and under its protective Low Smoke Zero-Halogen Thermoplastic jacket.

see product detail »