



Liquidtight Flexible Metal Conduit

TYPE - ZHLA



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				Carton	Footage		Reel	Footage		List Price
Trade Size	Type	Inside Bend Radius	Wt. (Lbs.)/ 100 Ft.	Length	Part #	Length	Part #	Length	Part #	Price Per 100 FT
3/8"	ZHLA-10	2.0"	29	100	88101	500	88103	1000	88104	\$701.00
1/2"	ZHLA-11	3.0"	32	100	88111	500	88113	1000	88114	\$791.00
3/4"	ZHLA-12	4.2"	53	100	88121	500	88124	1000	88125	\$1,206.00
1"	ZHLA-13	5.5"	82	100	88132	400	88134	-	-	\$2,262.00
1-1/4"	ZHLA-14	7.0"	102	50	88142	200	88144	-	-	\$3,386.00
1-1/2"	ZHLA-15	4.5"	124	50	88152	150	88154	-	-	\$4,014.00
2"	ZHLA-16	6.0"	145	50	88162	100	88164	-	-	\$4,512.00
2-1/2"	ZHLA-17	8.0"	192	25	88172	-	-	-	-	\$5,889.00
3"	ZHLA-18	10.0"	252	25	88182	-	-	-	-	\$8,245.00
3-1/2"	ZHLA-350	11.0"	308	25	88187	-	-	-	-	\$10,558.00
4"	ZHLA-19	12.0"	350	25	88192	-	-	-	-	\$11,996.00

COMBUSTION & FLAMMABILITY PROPERTIES

*Combustion & Flammability Properties:	Test	Value
Vertical Burn (Material)	UL94	V-0 Rating No Flaming Drips
Vertical Burn (Conduit)	UL360	Pass No Flaming Drips
Oxygen Index %	D2863	28.5
Flame Spread Index	ASTM E162	25; No Flaming Drips
Smoke Generation (Flaming)	ASTM E662 (NFPA 258)	Ds 41@1.5 Min/ Ds 113@4.0 Min
Smoke Generation (Non-Flaming)	ASTM E662 (NFPA258)	Ds 4@1.5 Min/ Ds 19@4.0 Min
Toxic Gas Generation	BOMBARDIER SMP 800-C	Pass
Toxicity Index	NES 713	3.9

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

See [Chart for Dimensions and Tolerances](#).

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

CONSTRUCTION:

ZHLA has a flexible inner core made from a spiral wound strip of heavy-gauge, hot-dipped galvanized steel. The 3/8 through 1-1/4 inch trade sizes contain an integral bonding strip. The 1-1/2 inch and larger are designed with a fully interlocked strip.

The specially formulated thermoplastic black polyurethane jacket has excellent flame resistance and low smoke & toxicity generation characteristics. It is also resistant to Ozone, Hydrocarbons, Moderate Chemicals, Oils and Fuels.

APPLICATION:

There are many situations and areas where PVC is not allowed for electrical construction. The jacketing material used for ZHLA virtually eliminates the release of acidic gases found in PVC products.

- Meets the requirements of Bombardier SMP 800-C for Toxic Gas Generation.
- Meets the requirements of both ASTM E162 for Flame Spread and ASTM E662 for Smoke Generation.

This conduit is intended for installation in accordance Article 350 of the NEC (ANSI/NFPA-70):

- Permitted for use in exposed or concealed locations.
 - Installations under raised floors in Data Processing Areas. Article 645.5(E)(2).
 - Listed and marked for direct burial and in poured concrete.
 - For containment of 1000 volts and lower potential circuits.
 - Sunlight-resistant.
 - 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 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)(2) & 503.30(B) Div 2: 503.10(A)(2)
 - Elevators and Hoistways Article 620.21.
- Meets the same specifications as Type LA.

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

 CSA Certified to C22.2 No.56 File# LL18858

This conduit is intended for use according to the Canadian Electrical Code as described in clause 12-1300 for dry, damp or wet locations and in hazardous areas where flexibility is necessary per 18-202(4)(b) and 18-302(4) for both Class II and Class III locations. FT1



[WEEE and RoHS Compliant](#)

 BS EN IEC 61386 Classification Code 445240650414

ARRA:

For ARRA Certification Letter, please [click here](#)

STANDARD COLORS:

Black. [Other colors available upon request](#), including Gray

WORKING TEMPERATURES:

-40°C to 80°C Air / 60°C Wet / 70°C Oil (US)

-40°C to 60°C Dry / 60°C Oil (Canada)

Flexibility: [See the Flexibility Comparison Guide](#)

Metal Used: Steel

Plastic Used: PU [See the Chemical Resistance Guide](#)

High Mech. Strength	Listed For Direct Burial	Halogen Free	Low Fire Hazard	Accepts Standard Liquidtight Fittings	Self Extinguish	EMI/RFI Shielding	Oil Resistance	Acid Resistance
X	X	X	X	X	X		X	

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