

Steel Core

Type ZHLA – Non-Halogen, Low Smoke, Flame Retardant



Trade Size (in.)	Cat. No.	Carton Content* (m)	Cat. No.	Reel Content* (m)	Cat. No.	Reel Content* (m)	Inside Bend Radius		Weight kg/30m
							in.	(mm)	
3/8	ZHLA038-30	30	ZHLA038-150	150	ZHLA038-300	300	2.0	(50.8)	13
1/2	ZHLA050-30	30	ZHLA050-150	150	ZHLA050-300	300	3.0	(76.2)	15
3/4	ZHLA075-30	30	ZHLA075-150	150	ZHLA075-300	300	4.2	(106.7)	24
1	ZHLA100-30	30	ZHLA100-120	120	-	-	5.5	(139.7)	37
1-1/4	ZHLA125-15	15	ZHLA125-60	60	-	-	7.0	(177.8)	46
1-1/2	ZHLA150-15	15	ZHLA150-45	45	-	-	4.5	(114.3)	47
2	ZHLA200-15	15	ZHLA200-30	30	-	-	6.0	(152.4)	66
2-1/2	ZHLA250-8	8	-	-	-	-	8.0	(203.2)	87
3	ZHLA300-8	8	-	-	-	-	10.0	(254.0)	114
3-1/2	ZHLA350-8	8	-	-	-	-	11.0	(279.4)	140
4	ZHLA400-8	8	-	-	-	-	12.0	(304.8)	154

See Chart on p. G28 for dimensions and tolerances

* See p. G27 for label and packaging detail

Type ZHLA 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	20; No Flaming Drips
-Flame Propagation	ASTM C542 (NFPA-130)	Pass No Flaming Drips
-Smoke Generation (Flaming)	ASTM E662 (NFPA 258)	Ds 50 @ 1.5 min Ds 102 @ 4.0 min
-Smoke Generation (Non-Flaming)	ASTM E662 (NFPA 258)	Ds 5 @ 1.5 min Ds 26 @ 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

Type ZHLA

Non-halogen, low smoke and low flame spread are what makes Type ZHLA a proven choice for applications where limiting toxic combustion materials is 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 in. through 1-1/4 in. trade sizes contain an integral bonding strip of copper. The 1-1/2 in. and larger sizes are designed with a fully interlocked strip.

The specially formulated thermoplastic black polyurethane jacket has excellent flame resistance and low smoke and toxicity generation characteristics. It is also resistant to ozone, hydrocarbons, moderate chemicals, oils and fuels. Refer to the Conduit — Chemical Resistance Guide beginning on p. G30.

Applications


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.
- Listed and marked for direct burial and in poured concrete.
- For containment of 600-volt and lower potential circuits.
- Sunlight resistant

Working Temperatures

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

Listing / Certification

 Listed. Conforms to UL Standard ANSI/UL-360 for Liquidtight Flexible Steel Conduit

Standard Colour

Black