

Type ZHLA-SS

Part of the **Stainless Steel** and **Zero-Halogen** product families.

This UL-listed, liquidtight stainless steel flexible conduit offers excellent corrosion-resistance and is designed for applications where safety concerns exist regarding a material's reaction in a fire situation. Type ZHLA-SS is low-smoke, zero-halogen, providing a low fire hazard solution for environments requiring limited toxic material release, such as subways, tunnels, and public spaces.

Construction:

Inner Core:

- Corrosion-resistant continuous strip of 316L Stainless Steel.
- 1/2" – 2" Fully Interlocked Profile

Liquidtight Jacket:

- Low Smoke Zero-Halogen Thermoplastic
- Resistant to Ozone, Hydrocarbons, Moderate **Chemicals and Oils**
- Flame Retardant / Self-Extinguishing
- Low Smoke
- Low Toxicity
- Sunlight Resistant (UV)

Application:

- Formerly Type ZHSS
- Non-UL 3" through 4" available upon request
- Corrosive Environments
- Meets ASTM E162 for Flame Spread
- Meets the requirements of Bombardier SMP 800-C for Toxic Gas Generation.
- Meets the requirements of ASTM E662 for Smoke Generation.
- NFPA130 approved
- Industrial Environments
- Wet and Oily Locations
- Compatible with standard liquidtight connectors



All Products Proudly Made in the USA

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 445240650314 **CE**

Declaration

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

Buy America: For Buy America Certification Letter, please [click here](#).

-  BABA Compliant

STANDARD COLORS

Black. **Other colors available upon request.**

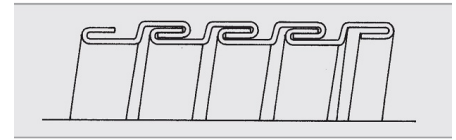
WORKING TEMPERATURES

-20°C to 105°C Air / 60°C Wet

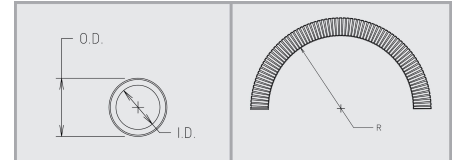
-4°F to 221°F Air / 140°F Wet

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
- Use Separate Grounding Conductor — If liquidtight flexible metal conduit contains a stainless steel core, a wire-type equipment grounding conductor or a bonding jumper in accordance with 250.102(E) (2) shall be installed. Article 250.118 (A)(6)(f).
- 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)
- 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



Interlock sizes: 1/2" - 2"



Combustion & Flammability 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

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

Markets:

Aerospace, Defense, Healthcare, Mining, Power Plants, Rail & Transit, Ship Building, Steel Mills

Product Table

	US Trade Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	ISO (MM)	20	25	32	40	50	63
	CSA (MM)	16	21	27	35	41	53
	Type	ZHLA-SS-11	ZHLA-SS-12	ZHLA-SS-13	ZHLA-SS-14	ZHLA-SS-15	ZHLA-SS-16
Internal Diameter	Min (IN.)	0.622	0.820	1.041	1.380	1.575	2.020
	Max (IN.)	0.642	0.840	1.066	1.410	1.600	2.045
Outer Diameter	Min (IN.)	0.820	1.030	1.290	1.630	1.865	2.340
	Max (IN.)	0.840	1.050	1.315	1.660	1.900	2.375
Inside Bend Radius	Static (IN.)	3.25	4.25	6.5	8.0	9.0	11.0
Weight	Lbs. per 100 Ft	28	38	62	79	103	119
Standard Length	Coil (Ft.)	100	100	100	50	50	50
	Part #	881181	881282	881382	881482	881582	881682
	Reel (Ft.)	500	500	400	200	150	100
	Part #						
	Reel (Ft.)	1000	1000				
	Part #						

related products



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.

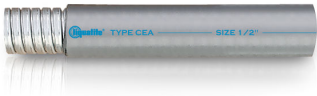
[see product detail »](#)



Type LA-SS

A UL-listed, flexible stainless-steel conduit offering excellent protection against corrosion, sunlight (UV), and wet, oily conditions. Ideally suited for industrial-grade installations requiring motion, vibration, and bending.

[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



Type ATX-SS

This non-UL liquidtight flexible stainless steel conduit is designed to withstand an extreme temperature range. It offers excellent resistance to corrosion.