



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 Polyurethane jacket. The braid offers a minimum of 90% coverage.

Type HFSLA liquidtight flexible shielding conduit is designed for field installations where safety concerns exist regarding a material's reaction in a fire situation. The specially formulated thermoplastic polyurethane jacket has excellent flame retardancy and low smoke characteristics. Acidic gases such as hydrogen chloride, hydrogen fluoride and hydrogen bromide are virtually eliminated as products of combustion.

Construction:

Inner Core:

- Hot Dipped Galvanized Steel
- 3/8" – 1-1/4" Squarelock Profile with continuous bonding strip
- 1-1/2" – 2" Fully Interlocked Profile
- Shielded with a tinned copper braid

Liquidtight Jacket:

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

Application:

- 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 with Article 350 of the NEC (ANSI/NFPA-70)

- Suitable as an equipment grounding conductor per Article 250.118(6). Larger sizes require separate grounding conductor.
- Suitable for use in hazardous locations: Class I, Div. 2 and Classes II and III.
- PVC jacket is resistant to a wide variety of oils, acids, alkaline and ultraviolet light.
- Accepts Standard Metallic Liquidtight Fittings
- Designed for wiring applications requiring shielding effectiveness from Electromagnetic and Radio Frequency Interference (EMI/RFI)

HFSLA is a trademark of Electri-Flex Company, registered in the U.S. Patent and Trademark Office.

Combustion & Flammability Properties

COMBUSTION & FLAMMABILITY

Vertical Burn (Material)
Vertical Burn (Conduit)
Oxygen Index %
Flame Spread Index
Smoke Generation (Flaming)
Smoke Generation (Non-Flaming)

TEST

UL94
UL360
D2863
ASTM E162
ASTM E662 (NFPA 258)
ASTM E662 (NFPA 258)

VALUE

V-0 Rating; No Flaming Drips
Pass; No Flaming Drips
28.5
25; No Flaming Drips
Ds 41@1.5 Min/Ds 113@4.0 Min
Ds 4@1.5 Min/Ds 19@4.0 Min



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 445240650414 **CE**

Declaration

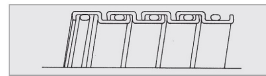
ARRA: For ARRA Certification Letter, please [click here](#)

STANDARD COLORS

Black. **Other colors and jacketing materials available upon request**

WORKING TEMPERATURES:

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



Squarelock with Filler Sizes

3/8" - 1-1/4"

Toxic Gas Generation
Toxicity Index

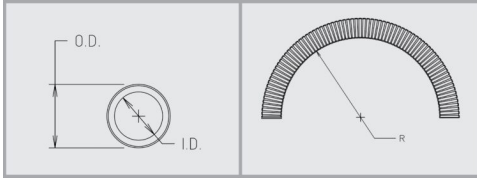
BOMBARDIER SMP 800-C
NES 713

Pass
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.

Markets:

Aerospace, Cell Towers, Data Centers, Defense, Healthcare, Renewable Energy, Ship Building, Telecommunications



Product Table

	US Trade Size	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	ISO (MM)	16	20	25	32	40	50	63
	CSA (MM)	12	16	21	27	35	41	53
	Type	HFSLA-10	HFSLA-11	HFSLA-12	HFSLA-13	HFSLA-14	HFSLA-15	HFSLA-16
Internal Diameter	Min (MM)	12.3	15.8	20.8	26.4	35.1	40.0	51.3
	Max (MM)	12.8	16.3	21.3	27.1	35.8	40.6	51.9
Outside Diameter	Min (MM)	17.5	20.8	26.2	32.8	41.4	47.4	59.4
	Max (MM)	18.0	21.3	26.7	33.4	42.2	48.3	60.3
Inside Bend Radius	Static (MM)	51	76	107	140	178	114	152
Weight	(Kgs) per 30 meters	13	15	24	37	46	56	66
	Carton (Mtrs)	30	30	30	30	15	15	15
Standard Length	Part # (black)	789012	789128	789228	789328	789428	789528	789628
	Reel (Mtrs)	150	150	150	120	60	45	30
	Part # (black)	789032	789137	789247	789347	789447	789547	789647
	Reel (Mtrs)	300	300					
	Part # (black)	789042	789148					

related products



Type HFEMS

Part of the SHIELD-FLEX® family of EMI/RFI Shielding conduits. Type HFEMS liquidtight flexible shielding conduit is designed for field installations where safety concerns exist regarding a material's reaction in a fire situation.

[see product detail »](#)

Type HFEMCS

Part of the SHIELD-FLEX® family of EMI/RFI Shielding conduits. Type HFEMCS is a hybrid of HFSLA and HFEMS. It utilizes the same bronze core and Polyurethane jacket as HFEMS, but gets further screening protection from a tinned copper braid as found in the HFSLA product.

[see product detail »](#)



Type SLA

Part of the SHIELD-FLEX® family of EMI/RFI Shielding conduits. Type SLA is identical to standard UL Listed liquidtight flexible steel conduit (See Type LA) but is augmented with a tinned copper

7/18/2019

Type HFSLA - Halogen-Free Shielded Conduit | Electri-Flex

shielding braid located over the inner steel core and under its protective PVC jacket.

[see product detail »](#)