



## 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

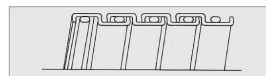
**ARRA:** For ARRA Certification Letter, please [click here](#)

#### 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

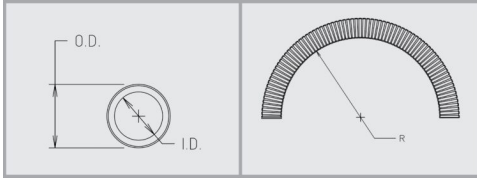
BOMBARDIER SMP 800-C  
NES 713

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 (IN.)	0.484	0.622	0.820	1.041	1.380	1.575	2.020
	Max (IN.)	0.504	0.642	0.840	1.066	1.410	1.600	2.045
Outer Diameter	Min (IN.)	0.690	0.820	1.030	1.290	1.630	1.865	2.340
	Max (IN.)	0.710	0.840	1.050	1.315	1.660	1.900	2.375
Inside Bend Radius	Static (IN.)	2.0	3.0	4.2	5.5	7.0	4.5	6.0
Weight	Lbs. per 100 Ft	29	32	53	82	102	124	145
	Carton (Ft.)	100	100	100	100	50	50	50
Standard Length	Part # (black)	789012	789128	789228	789328	789428	789528	789628
	Reel (Ft.)	500	500	500	400	200	150	100
	Part # (black)	789032	789137	789247	789347	789447	789547	789647
	Reel (Ft.)	1000	1000					
	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

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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 »](#)**