Type HFEMCS

Part of the SHIELD-FLEX® family of EMI/RFI Shielding conduits.

Type HFEMCS is a hybrid of HFSLA and HFEMS. It uilizes 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.

Type HFEMCS 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:

- Bronze
- 3/8" – 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
- Accepts Standard Metallic Liquidtight Fittings
- Designed for wiring applications requiring shielding effectiveness from Electromagnetic and Radio Frequency Interference (EMI/RFI)

All Products Proudly Made in the USA

Product Information

CERTIFICATIONS & COMPLIANCE

WEEE and RoHS Compliant

BS EN IEC 61386 Classification Code 445240650414 **CE Declaration**

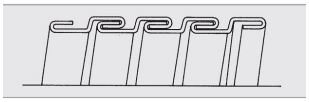
ARRA: For ARRA Certification Letter, please click here

STANDARD COLORS

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

WORKING TEMPERATURES:

-40°C to 80°C



Interlock

Combustion & Flammability Properties

COMBUSTION & FLAMMABILITY	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 (NFPA 258)	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.

Product Table

				Internal Diameter		Outer Diameter		Inside Bend Radius	Weight	Standard Length			
US Trade Size	ISO (MM)	CSA (MM)	Type	Min (IN.)	Max (IN.)	Min (IN.)	Max (IN.)	Static (IN.)	Lbs. per 100 Ft	Carton (Ft.)	Part # (black)	Reel (Ft.)	Part # (black)
3/8"	16	12	HFEMCS-10	0.484	0.504	0.690	0.710	3.0	27	100	86001	500	86003
1/2"	20	16	HFEMCS-11	0.622	0.642	0.820	0.840	3.0	35	100	86101	500	86103
3/4"	25	21	HFEMCS-12	0.820	0.840	1.030	1.050	4.0	43	100	86201	500	86204
1"	32	27	HFEMCS-13	1.041	1.066	1.290	1.315	4.0	85	100	86302	400	86304
1 1/4"	40	35	HFEMCS-14	1.380	1.410	1.630	1.660	4.5	101	50	86402	200	86404
1 1/2"	50	41	HFEMCS-15	1.575	1.600	1.865	1.900	7.0	140	50	86502	150	86504
2"	63	53	HFEMCS-16	2.020	2.045	2.340	2.375	9.5	180	50	86602	100	86604

related products

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.

see product detail »

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 EMCS

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

see product detail »