



## Small Diameter Firesleeve for Wiring, Cable and Tubing Protection

464°F / 240°C Continuous Rating – Higher Temperature for Shorter Periods  
High Temperature, Heat & Flame Resistant

*Silicone Rubber Coated Fiberglass Sleeve with UL/CSA rating & NEMA TF-1*



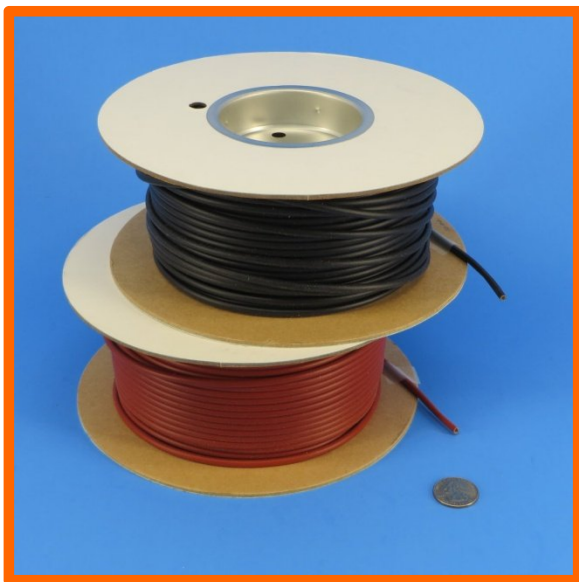
FlameShield™ small diameter firesleeve is designed as a primary insulation sleeve for protecting small diameter wire, cable, lines, hose, and pipe from high temperature, flame and environmental contamination. Recognized by UL / CSA for 240°C, 600V service, and complies with VW-1 flammability requirements. Conforms to, and is listed on the QPL for MIL-I-3190/9 (Grade A).

Extremely flexible and easily installed. Used in electrical apparatus as a primary or secondary wiring insulation.

The inner braid is very fine and dense, and along with the precision silicone rubber coating, this is the most flexible sleeve we have available for wire, cable and hose protection.

Due to the tight weave of this sleeve and the coating, it has negligible radial elasticity.

The coating of this sleeve provides excellent contamination resistance against oil, liquid splash, etc.



**464°F / 240°C continuous rating with weld splatter / molten metal splash protection**

**Small Diameter Firesleeve for Wiring, Cable and Tubing Protection (Continued)**

**464°F / 240°C Continuous Rating – Higher Temperature for Shorter Periods**

**High Temperature, Heat & Flame Resistant**

Available in all standard AWG wire sizes (see end of section): Available Colors are Oxide-Red and Black

<u>Property</u>	<u>Procedure</u>	<u>Performance</u>
<b>Physical</b>		
Tensile Strength, Coating	ASTM-D412	1600 psi
Ultimate Elongation, Coating	ASTM-D412	800% @ 20°C
Hardness, Coating	ASTM-D2240	54 (Durometer, Shore A)
Flexibility & Toughness, Coating	UL 1441	Passes Penetration Test
<b>Chemical</b>		
Oil & Solvent Resistance	MIL-I-3190/9	Passes
Water Vapour Resistance	MIL-I-3190/9	Passes
Resistance to Acids and Alkalis	-	Excellent
Resistance to Weathering	-	Unaffected by sunlight and weather
Compatibility	UL 1446	Good. Compatible with most potting compounds and varnishes
<b>Electrical</b>		
Dielectric Strength:		
after 48/23/50, Grade A	NEMA TF-1	8000V min avg., 6000v min individual
after 96/23/96, Grade A	NEMA TF-1	80% of Original Value
Hydrostatic Stability after 336 hrs @ 70°C over Constant Water Reflex	MIL-I-3190/9	Passes 7660V min avg with no disintegration, reversion or cracks (spec 5000V)
<b>Thermal</b>		
Thermal Endurance	MIL-I-3190/9 & UL 1441	Class 240°C (S)
Brittleness Temperature	ASTM-D350	-80°C
Flame Resistance	UL 1441	Passes (VW-1)
	ASTM-D350, Method A	Passes
	NEMA TF-1	Passes
	MIL-I-3190/9, Method A	Passes
Pushback	MIL-I-3190/9	No cracks or ruptures, 6000V min avg breakdown strength

**This product is not stock, it is made to order: Delivery is approximately 10 business days.**

**Small Diameter Firesleeve (Continued)**

High Temperature, Heat & Flame Resistant Small

Silicone Rubber Coated Fiberglass Sleeve

Primary Insulation Silicone Rubber Coated Fiberglass Sleeve for

Wire Protection, with UL/CSA approval rating and NEMA Grade TF-1 classified

**High Temperature - Small Diameter – NEMA Wall Thickness Sleeve  
FlameShield™ Silicone Rubber Coated Fiberglass Sleeve with  
UL/CSA rating and NEMA Grade TF-1 Classification**

Part Number	Nominal ID				Feet per Spool	Price per Spool
	AWG	Inches	mm	-dash		
S-FS-SD-AWG24-X	24	0.022	0.56		500*	\$ 488.05
S-FS-SD-AWG22-X	22	0.027	0.69		500*	\$ 490.17
S-FS-SD-AWG20-X	20	0.034	0.86		500*	\$ 505.01
S-FS-SD-AWG19-X	19	0.038	0.96		500*	\$ 510.02
S-FS-SD-AWG18-X	18	0.042	1.07		500*	\$ 525.65
S-FS-SD-AWG17-X	17	0.047	1.19		500*	\$ 535.27
S-FS-SD-AWG16-X	16	0.053	1.35		500*	\$ 545.79
S-FS-SD-AWG15-X	15	0.059	1.50		500*	\$ 550.33
S-FS-SD-AWG14-X	14	0.066	1.68	-01	500*	\$ 580.16
S-FS-SD-AWG13-X	13	0.076	1.93		250*	\$ 295.18
S-FS-SD-AWG12-X	12	0.085	2.16		250*	\$ 325.30
S-FS-SD-AWG11-X	11	0.095	2.41		250*	\$ 342.37
S-FS-SD-AWG10-X	10	0.106	2.69		250*	\$ 362.45
S-FS-SD-AWG9-X	9	0.118	3.10		250*	\$ 372.49
S-FS-SD-AWG8-X	8	0.133	3.38	-02	250*	\$ 402.61
S-FS-SD-AWG7-X	7	0.148	3.76		250*	\$ 430.72
S-FS-SD-AWG6-X	6	0.166	4.22		150*	\$ 274.83
S-FS-SD-AWG5-X	5	0.186	4.72	-03	150*	\$ 307.05
S-FS-SD-AWG4-X	4	0.208	5.28		150*	\$ 343.29
S-FS-SD-AWG3-X	3	0.234	5.94		150*	\$ 385.57
S-FS-SD-AWG2-X	2	0.263	6.68	-04	150*	\$ 454.03
S-FS-SD-AWG1-X	1	0.294	7.47		150*	\$ 520.47
S-FS-SD-05-X	5/16	0.313	7.95	-05	150*	\$ 567.78
S-FS-SD-AWG0-X	0	0.330	8.38		150	\$ 610.07
S-FS-SD-06-X	3/8	0.375	9.52	-06	150	\$ 853.69
S-FS-SD-07-X	7/16	0.438	11.12	-07	100	\$ 751.21
S-FS-SD-08-X	1/2	0.500	12.70	-08	100	\$ 877.72
S-FS-SD-10-X	5/8	0.625	15.87	-10	100	\$ 1068.93
S-FS-SD-12-X	3/4	0.750	19.05	-12	100	\$ 1258.32
S-FS-SD-14-X	7/8	0.875	22.22	-14	100	\$ 1534.66
S-FS-SD-16-X	1	1.000	25.40	-16	100	\$ 1874.27
S-FS-SD-18-X	1 1/8	1.125	28.57	-18	100	\$ 2603.51
S-FS-SD-20-X	1 1/4	1.250	31.75	-20	100	\$ 3062.44
S-FS-SD-22-X	1 3/8	1.375	34.92	-22	3**	\$ 33.37/foot (3'section)
S-FS-SD-23-X	1 7/16	1.437	36.49	-23	3**	\$ 36.88/foot (3'section)
S-FS-SD-24-X	1 1/2	1.500	38.10	-24	3**	\$ 39.83/foot (3'section)
S-FS-SD-26-X	1 5/8	1.625	41.27	-26	3**	\$ 42.99/foot (3'section)
S-FS-SD-28-X	1 3/4	1.750	44.45	-28	3**	\$ 46.46/foot (3'section)
S-FS-SD-30-X	1 7/8	1.875	47.62	-30	3**	\$ 50.17/foot (3'section)
S-FS-SD-32-X	2	2.000	50.80	-32	3**	\$ 57.31/foot (3'section)

See Page 1-43 for a table of pre-coated dimensional specifications for this product

For the "X" value in the part number, specify "B" for Black or "OR" for Oxide-Red Color.

**This product is available in full coils only.**

**This product is not stock, it is made to order: Delivery is approximately 10 business days.**

\* Longer Spool Lengths Available. \*\* Minimum order 30 pieces

Items highlighted in yellow are available by-the-foot