

**Acrylic Coated Fiberglass Sleeve - Flexible - AWG Small Diameter**  
**311°F / 155°C: High Temperature, Heat & Flame Resistant – UL & CSA Recognized**  
**Available meeting NEMA Grade F-A-1, F-B-1, F-C-1, F-C-2 & F-C-3**



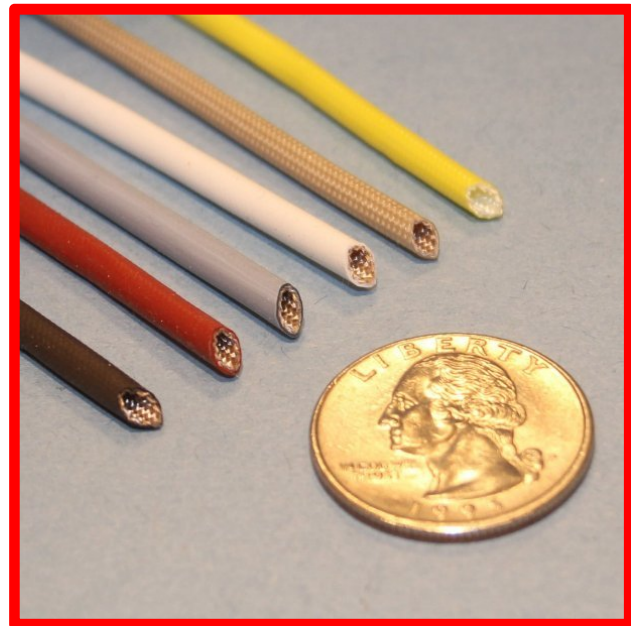
Designed as a primary insulation sleeve for protecting small diameter wire. Recognized by UL and CSA for 155°C, 600 volt service, and complies with VW-1 flammability requirements. Conforms to, and is listed on the QPL for MIL-I-3190/9. Available in 3 grades: NEMA Grade A-1, B-1 and C-1.

Extremely flexible and easily installed. Used in electrical apparatus such as electric motors, transformers, generators, home appliances, lighting fixtures, instrument circuits and controls, switchgear, breaker panels, welding equipment.

The inner braid is very fine and tightly woven, and along with the acrylic coating, this is a tough and flexible sleeve for wire protection.

Available in all standard AWG wire sizes (see end of this section for dimensions and tolerances).

Available in 10 Colors



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**(Continued)**

<u>Property</u>	<u>Procedure</u>	<u>Performance</u>
<b>Physical</b>		
Tensile Strength, Coating	ASTM-D412	850 psi
Ultimate Elongation, Coating	ASTM-D412	150% @ 20°C
Tear Strength, Coating	ASTM-D624	60 psi
Flexibility & Toughness, Coating	UL 1441	Passes Penetration Test
<b>Chemical</b>		
Oil & Solvent* Resistance	MIL-I-3190/9	Passes (good)
Resistance to Acids and Alkalis	-	Good
Corrosion Resistance	-	Good. Contains no chlorine or other materials contributing to electrolyte formation
Compatibility	UL 1446	Good. Compatible with modified polyester, acrylic, epoxy, phenolic and formvar wire enamels.
<b>Electrical</b>		
Dielectric Strength: after 48/23/50		
Grade A	NEMA TF-1	7000V min avg., 5000v min individual
Grade B	NEMA TF-1	4000v min. Avg., 2500v min. Individ.
Grade C-1	NEMA TF-1	2500v min. Avg., 1500v min.indiv.
Grade C-2	NEMA TF-1	1500v min. Avg., 800v min.indiv.
Grade C-3	NEMA TF-1	no voltage guarantee
after 96/23/96, Grade A	NEMA TF-1	50% of Original Value
Hydrolytic Stability after 336 hrs @ 70°C over Constant Water Reflex	MIL-I-3190/9	1500 volts min. avg
<b>Thermal</b>		
Thermal Endurance	MIL-I-3190/9 & UL 1441	Class 155°C (F)
Brittleness Temperature	ASTM-D350	-25°C
Flame Resistance	UL 1441	Passes (VW-1), Grade C3 only
	ASTM-D350, Method B	Passes
	NEMA TF-1	Passes
	MIL-I-3190/9, Method B	Passes
Pushback	MIL-I-3190/9	No cracks or ruptures, 6000V min avg breakdown strength
Resistance to potting temperature	MIL-I-3190/3	No blisters, flow or cracks visible after 15 min @ 225C

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

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**Primary Insulation Coated Fiberglass Sleeve for**  
**Wire Protection, NEMA Grade A-1/B-1/C-1/C-2/C-3 classified**

High Temperature - Small Diameter – Acrylic Coated Fiberglass Sleeve with UL/CSA rating and NEMA Grade F-A-1 / F-B-1 / F-C-1 – F-C-2 – F-C-3 Classification										
Part Number	Nominal ID				Feet per Spool	Price per 100 feet				
	AWG / Inches / mm / -dash					F-A-1	F-B-1	F-C-1	F-C-2	F-C-3
S-FG-ACR-AWG24-X-Y	24	0.022	0.56		500*	\$ 49.60	45.52	39.27	34.60	28.22
S-FG-ACR-AWG22-X-Y	22	0.027	0.69		500*	\$ 50.75	46.87	43.00	35.65	29.87
S-FG-ACR-AWG20-X-Y	20	0.034	0.86		500*	\$ 54.27	47.72	43.35	36.20	30.67
S-FG-ACR-AWG19-X-Y	19	0.038	0.96		500*	\$ 54.51	48.69	44.12	37.35	30.97
S-FG-ACR-AWG18-X-Y	18	0.042	1.07		500*	\$ 54.87	49.60	44.62	38.39	31.37
S-FG-ACR-AWG17-X-Y	17	0.047	1.19		500*	\$ 55.07	50.40	44.97	39.44	31.97
S-FG-ACR-AWG16-X-Y	16	0.053	1.35		500*	\$ 55.92	50.75	45.52	40.00	32.65
S-FG-ACR-AWG15-X-Y	15	0.059	1.50		500*	\$ 57.60	53.67	46.87	40.80	33.45
S-FG-ACR-AWG14-X-Y	14	0.066	1.68	-01	500*	\$ 57.85	54.27	47.10	43.00	34.12
S-FG-ACR-AWG13-X-Y	13	0.076	1.93		250*	\$ 64.12	56.47	50.40	44.12	34.60
S-FG-ACR-AWG12-X-Y	12	0.085	2.16		250*	\$ 65.52	57.85	50.75	45.17	34.80
S-FG-ACR-AWG11-X-Y	11	0.095	2.41		250*	\$ 67.45	62.72	55.07	47.10	38.90
S-FG-ACR-AWG10-X-Y	10	0.106	2.69		250*	\$ 74.50	65.80	57.60	50.40	40.00
S-FG-ACR-AWG9-X-Y	9	0.118	3.10		250*	\$ 77.85	67.70	58.10	53.67	43.00
S-FG-ACR-AWG8-X-Y	8	0.133	3.38	-02	250*	\$ 83.05	74.50	64.42	56.47	45.52
S-FG-ACR-AWG7-X-Y	7	0.148	3.76		250*	\$ 87.20	78.12	67.70	58.10	46.87
S-FG-ACR-AWG6-X-Y	6	0.166	4.22		150*	\$ 95.37	83.55	72.37	64.12	50.40
S-FG-ACR-AWG5-X-Y	5	0.186	4.72	-03	150*	\$ 105.27	92.90	78.37	74.50	58.10
S-FG-ACR-AWG4-X-Y	4	0.208	5.28		150*	\$ 126.60	111.52	93.75	82.80	65.52
S-FG-ACR-AWG3-X-Y	3	0.234	5.94		150*	\$ 141.35	121.97	103.92	91.25	73.17
S-FG-ACR-AWG2-X-Y	2	0.263	6.68	-04	150*	\$ 159.20	138.72	118.37	104.97	83.55
S-FG-ACR-AWG1-X-Y	1	0.294	7.47		150*	\$ 181.72	157.85	132.90	119.47	95.67
S-FG-ACR-05-X-Y	5/16	0.313	7.95	-05	150*	\$ 205.57	179.27	153.22	133.45	106.90
S-FG-ACR-AWG0-X-Y	0	0.330	8.38		150	\$ 213.22	185.52	158.05	139.52	111.82
S-FG-ACR-06-X-Y	3/8	0.375	9.52	-06	150	\$ 296.72	260.32	225.00	191.00	152.15
S-FG-ACR-07-X-Y	7/16	0.438	11.12	-07	100	\$ 392.45	343.90	296.72	254.87	204.17
S-FG-ACR-08-X-Y	1/2	0.500	12.70	-08	100	\$ 455.42	421.12	388.25	331.25	265.02
S-FG-ACR-10-X-Y	5/8	0.625	15.87	-10	100	\$ 560.40	526.95	491.05	417.85	334.60
S-FG-ACR-12-X-Y	3/4	0.750	19.05	-12	100	\$ 674.65	639.87	597.12	545.07	436.82
S-FG-ACR-14-X-Y	7/8	0.875	22.22	-14	100	\$ 824.30	779.02	735.25	665.90	534.05
S-FG-ACR-16-X-Y	1	1.000	25.40	-16	100	\$ 1010.15	955.52	886.20	804.87	645.57
S-FG-ACR-18-X-Y	1 1/8	1.125	28.57	-18	100	\$ 1215.87	1147.92	1066.75	964.55	892.55
S-FG-ACR-20-X-Y	1 1/4	1.250	31.75	-20	100	\$ 1416.45	1334.55	1238.92	1120.25	1036.65
S-FG-ACR-22-X-Y	1 3/8	1.375	34.92	-22	3**	\$ 1559.75	1468.45	1362.20	1232.00	1141.30
S-FG-ACR-23-X-Y	1 7/16	1.437	36.49	-23	3**	\$ 1655.37	1557.55	1443.80	1307.67	1210.05
S-FG-ACR-24-X-Y	1 1/2	1.500	38.10	-24	3**	\$ 1704.97	1602.05	1487.20	1346.32	1244.35
S-FG-ACR-26-X-Y	1 5/8	1.625	41.27	-26	3**	\$ 1756.17	1651.80	1531.52	1386.05	1281.97
S-FG-ACR-28-X-Y	1 3/4	1.750	44.45	-28	3**	\$ 1822.02	1713.22	1281.97	1587.45	1436.45
S-FG-ACR-30-X-Y	1 7/8	1.875	47.62	-30	3**	\$ 2131.42	2004.25	1857.07	1681.65	1557.27
S-FG-ACR-32-X-Y	2	2.000	50.80	-32	3**	\$ 2508.47	2345.92	2176.30	1968.35	1821.67

For 1000 to 4999 feet -10% / For 5000 feet or more -17%

See end of section 1 for a table of pre-coated dimensional specifications for this product

For the "X" value in the part number, specify "S" for standard flexibility or "F" for enhanced flexibility.

For the "Y" value in the part number, specify color

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

**This product is not stock, it is made to order: Delivery is approximately 15 business days.**

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