

Fiberglass Braided Sleeve - AWG Wire Gauge Sized – Small Diameter E Glass

1200°F / 648°C: Continuous Rating – Higher Temperature for Shorter Periods
DeltaGlass™ Very High Temperature & Heat Resistant Insulation with 1375 volts
space factor rating and NEMA TF-2 Section 6.3 flame resistance

E-Glass Precision Small Diameter / Heavy Wall:
Heat Treated or Heat Treated with Binders



Left: Standard Wall Thickness
Right: 1/32" Heavy Wall Thickness



Standard Wall Thickness
Heat Treated with Binders

Plain & Heat Treated sleeve is 1200°F / 648°C continuous, 1742°F / 950°C intermittent.

Sleeve with binders is rated to 600°F / 316°C continuous, 1140°F / 616°C intermittent.

This is a high-strength, high-temperature fiberglass sleeve produced from E-Glass. Available heat treated; with Acrylic resin or Oleoresinous binder. Both heat treated and with binders reduces fray and makes cutting easier.

The braiding is tight and dense, providing excellent coverage over small wires, cables, hoses, tubes and pipes.

This product conforms to NEMA TF-2 and is made from fibers conforming to MIL-Y-1140 (latest version), Class C, Form 1 (continuous filament yarns). Meets VW-1 flammability requirements.

E-Glass Properties:

Specific Gravity g/cm ³ :	2.55 - 2.58
Elongation at break, %:	4.5 - 4.9
Tensile strength, psi @22°C:	500,000 - 550,000
Water absorbency @22°C, 65% R.H.:	None
Space Factor Insulation, volts:	1100 (Std Wall) 1500 (HD wall)
Volume Resistivity at 22°C and 500 volts DC, ohm-cm:	10 ¹⁵ – 10 ¹⁶
Dielectric Constant at 22°C, 60 Hz:	6.5 – 6.8
Dissipation Factor at 22°C, 1 MHz:	0.001 – 0.005

Common Properties:

Good resistance to most acids and alkalies
Unaffected by bleaches and solvents
Excellent resistance to sunlight and aging. Not attacked by Mildew.
Conforms to NEMA TF-2. Fibers conform to MIL-R-60346. Type IV, Class 1.

This product is made to order: Delivery is approximately 5 to 15 business days.

Very High Temperature & Heat Resistant Fiberglass Braided Sleeve
E-Glass Precision Small Diameter / Standard Wall Thickness
Heat Treated or Heat Treated with Binders
with NEMA classification & Meets MIL-Y-1140 Class C Form 1
Meets UL 1441 VW-1 Flame Resistance – Will Not Burn

Part Number	Nominal Size AWG / inch / mm / -dash				Price per Spool		Feet per Coil
					Heat Treated	Heat Treated with Binders	
S-FG-E-AWG24-X	24	0.022	0.56	NA	\$ 117.00	\$ 146.25	500'
S-FG-E-AWG22-X	22	0.027	0.69	NA	\$ 120.25	\$ 149.50	500'
S-FG-E-AWG20-X	20	0.034	0.86	NA	\$ 123.63	\$ 152.75	500'
S-FG-E-AWG19-X	19	0.038	0.96	NA	\$ 126.75	\$ 156.00	500'
S-FG-E-AWG18-X	18	0.042	1.07	NA	\$ 130.00	\$ 159.25	500'
S-FG-E-AWG17-X	17	0.047	1.19	NA	\$ 133.25	\$ 162.50	500'
S-FG-E-AWG16-X	16	0.053	1.35	NA	\$ 136.50	\$ 169.00	500'
S-FG-E-AWG15-X	15	0.059	1.50	NA	\$ 143.12	\$ 175.50	500'
S-FG-E-AWG14-X	14	0.066	1.68	-01	\$ 146.25	\$ 182.00	500'
S-FG-E-AWG13-X	13	0.076	1.93	NA	\$ 73.13	\$ 92.62	250'
S-FG-E-AWG12-X	12	0.085	2.16	NA	\$ 74.75	\$ 97.50	250'
S-FG-E-AWG11-X	11	0.095	2.41	NA	\$ 81.25	\$ 107.25	250'
S-FG-E-AWG10-X	10	0.106	2.69	NA	\$ 82.87	\$ 108.87	250'
S-FG-E-AWG9-X	9	0.118	3.10	NA	\$ 89.37	\$ 113.75	250'
S-FG-E-AWG8-X	8	0.133	3.38	-02	\$ 95.87	\$ 126.75	250'
S-FG-E-AWG7-X	7	0.148	3.76	NA	\$ 104.00	\$ 134.87	250'
S-FG-E-AWG6-X	6	0.166	4.22	NA	\$ 68.25	\$ 86.77	150'
S-FG-E-AWG5-X	5	0.186	4.72	-03	\$ 74.10	\$ 94.57	150'
S-FG-E-AWG4-X	4	0.208	5.28	NA	\$ 79.95	\$ 105.30	150'
S-FG-E-AWG3-X	3	0.234	5.94	NA	\$ 92.62	\$ 115.05	150'
S-FG-E-AWG2-X	2	0.263	6.68	-04	\$ 102.37	\$ 133.57	150'
S-FG-E-AWG1-X	1	0.294	7.47	NA	\$ 117.97	\$ 151.12	150'
S-FG-E-05-X	5/16	0.313	7.95	-05	\$ 135.52	\$ 177.45	150'
S-FG-E-AWG0-X	0	0.330	8.38	NA	\$ 163.80	\$ 190.12	150'
S-FG-E-06-X	3/8	0.375	9.52	-06	\$ 193.05	\$ 250.57	150'
S-FG-E-07-X	7/16	0.438	11.12	-07	\$ 145.60	\$ 183.95	100'
S-FG-E-08-X	1/2	0.500	12.70	-08	\$ 155.35	\$ 195.65	100'
S-FG-E-10-X	5/8	0.625	15.87	-10	\$ 167.70	\$ 211.90	100'
S-FG-E-12-X	3/4	0.750	19.05	-12	\$ 206.70	\$ 259.35	100'
S-FG-E-14-X	7/8	0.875	22.22	-14	\$ 228.15	\$ 287.95	100'
S-FG-E-16-X	1	1.000	25.40	-16	\$ 277.55	\$ 349.05	100'

For the "X" value in the part number:

use "HT" to specify Heat Treated

use "HTA" to specify Heat Treated plus Acrylic Resin Binder,

use "HTAF" to specify Heat Treated plus Acrylic Resin Flexible Binder

- Resin treated available in white, red, green, brown, yellow, black, blue.

use "HTO" to specify Heat Treated with Oleoresinous Varnish Binder

Plain & Heat Treated sleeve is 1200°F / 648°C continuous, 1742°F / 950°C intermittent

Sleeve with binders is rated to 600°F / 316°C continuous, 1140°F / 616°C intermittent

See Size Table at the end of this catalog section for dimensional specifications

This Product must be purchased in full coils except as indicated below:

S-FG-E-AWG11-X is available by the foot; \$4.29 per foot

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