

**Fiberglass Braided Hermetic Sleeve - AWG Wire Gauge Sized –
Small Diameter - E Glass with high crosslinked acrylic copolymer
266°F / 130°C: Continuous Rating – Higher Temperature for Shorter Periods
DeltaGlass™ Class B Thermal Rating – Grade B-1 and C-1 Dielectric rating**



This high temperature and heat resistant braided hermetic fiberglass (fibreglass / glassfibre) sleeve, fabricated from high quality E-Type fiberglass filaments that will not burn and has been saturated with a high-crosslinked modified acrylic copolymer.

It will withstand continuous exposure to temperatures of 266°F / 130°C. It provides excellent protection for wires and wiring in hermetically sealed refrigeration compressor units.

Resistant to hydrochlorofluorocarbon (HCFC) refrigerants (R-22 and R-123) along with new hydroflouorocarbon (HFC) refrigerants such as R-134a. Compatible with mineral-oil lubricants such as Suniso® 3-G, along with synthetic polyol-ester lubricants such as Icematic® SW100 and alkylbenzene oils such as ZEROL® 150. This sleeve performs well with solvents such as methylene chloride, toluene, xylene and 1,1,1 trichlorethane.

This sleeve has been designed specifically for hermetic electric motors as its extremely low extraction levels of soluble materials protects against contamination and clogging within the compressor.

Conforms to NEMA TF-1, Type 2 and ASTM-D372.

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

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

Suniso® is a registered trademark of Compton Corporation
Icematic® is a registered trademark of Castrol, Inc.
ZEROL® is a registered trademark of Shrieve Chemical Products Company

Braided Fiberglass Hermetic Sleeve
E-Glass Precision Small Diameter / Standard Wall Thickness
with high-crosslinked acrylic copolymer

| Part Number | Nominal Size AWG / inch / mm / -dash | | | | Price per Spool | | Feet per Coil |
|------------------|---|-------|-------|-----|-----------------|------------|---------------|
| | | | | | Grade B-1 | Grade C-1 | |
| S-FG-AHE-AWG24-X | 24 | 0.022 | 0.56 | NA | \$ 310.60 | \$ 353.60 | 500' |
| S-FG-AHE-AWG22-X | 22 | 0.027 | 0.69 | NA | \$ 317.40 | \$ 360.40 | 500' |
| S-FG-AHE-AWG20-X | 20 | 0.034 | 0.86 | NA | \$ 320.80 | \$ 366.40 | 500' |
| S-FG-AHE-AWG19-X | 19 | 0.038 | 0.96 | NA | \$ 328.10 | \$ 372.10 | 500' |
| S-FG-AHE-AWG18-X | 18 | 0.042 | 1.07 | NA | \$ 331.50 | \$ 381.30 | 500' |
| S-FG-AHE-AWG17-X | 17 | 0.047 | 1.19 | NA | \$ 342.20 | \$ 390.70 | 500' |
| S-FG-AHE-AWG16-X | 16 | 0.053 | 1.35 | NA | \$ 351.20 | \$ 397.80 | 500' |
| S-FG-AHE-AWG15-X | 15 | 0.059 | 1.50 | NA | \$ 359.40 | \$ 404.60 | 500' |
| S-FG-AHE-AWG14-X | 14 | 0.066 | 1.68 | -01 | \$ 374.40 | \$ 424.70 | 500' |
| S-FG-AHE-AWG13-X | 13 | 0.076 | 1.93 | NA | \$ 192.27 | \$ 219.15 | 250' |
| S-FG-AHE-AWG12-X | 12 | 0.085 | 2.16 | NA | \$ 197.20 | \$ 225.10 | 250' |
| S-FG-AHE-AWG11-X | 11 | 0.095 | 2.41 | NA | \$ 208.60 | \$ 239.10 | 250' |
| S-FG-AHE-AWG10-X | 10 | 0.106 | 2.69 | NA | \$ 220.50 | \$ 248.90 | 250' |
| S-FG-AHE-AWG9-X | 9 | 0.118 | 3.10 | NA | \$ 231.55 | \$ 263.40 | 250' |
| S-FG-AHE-AWG8-X | 8 | 0.133 | 3.38 | -02 | \$ 246.40 | \$ 279.05 | 250' |
| S-FG-AHE-AWG7-X | 7 | 0.148 | 3.76 | NA | \$ 260.95 | \$ 298.25 | 250' |
| S-FG-AHE-AWG6-X | 6 | 0.166 | 4.22 | NA | \$ 170.61 | \$ 195.39 | 150' |
| S-FG-AHE-AWG5-X | 5 | 0.186 | 4.72 | -03 | \$ 187.32 | \$ 213.48 | 150' |
| S-FG-AHE-AWG4-X | 4 | 0.208 | 5.28 | NA | \$ 209.37 | \$ 240.81 | 150' |
| S-FG-AHE-AWG3-X | 3 | 0.234 | 5.94 | NA | \$ 232.05 | \$ 266.16 | 150' |
| S-FG-AHE-AWG2-X | 2 | 0.263 | 6.68 | -04 | \$ 272.76 | \$ 310.08 | 150' |
| S-FG-AHE-AWG1-X | 1 | 0.294 | 7.47 | NA | \$ 321.21 | \$ 355.11 | 150' |
| S-FG-AHE-05-X | 5/16 | 0.313 | 7.95 | -05 | \$ 346.38 | \$ 394.53 | 150' |
| S-FG-AHE-AWG0-X | 0 | 0.330 | 8.38 | NA | \$ 365.61 | \$ 416.88 | 150' |
| S-FG-AHE-06-X | 3/8 | 0.375 | 9.52 | -06 | \$ 500.61 | \$ 567.33 | 150' |
| S-FG-AHE-07-X | 7/16 | 0.438 | 11.12 | -07 | \$ 440.98 | \$ 499.80 | 100' |
| S-FG-AHE-08-X | 1/2 | 0.500 | 12.70 | -08 | \$ 532.16 | \$ 591.50 | 100' |
| S-FG-AHE-10-X | 5/8 | 0.625 | 15.87 | -10 | \$ 632.60 | \$ 712.58 | 100' |
| S-FG-AHE-12-X | 3/4 | 0.750 | 19.05 | -12 | \$ 753.06 | \$ 847.76 | 100' |
| S-FG-AHE-14-X | 7/8 | 0.875 | 22.22 | -14 | \$ 921.94 | \$ 1034.48 | 100' |
| S-FG-AHE-16-X | 1 | 1.000 | 25.40 | -16 | \$ 1128.40 | \$ 1265.42 | 100' |

For the "X" value, specify "B1" or "C1"

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

This product is not stock, it is made to order: Delivery is approximately 5 to 15 business days.