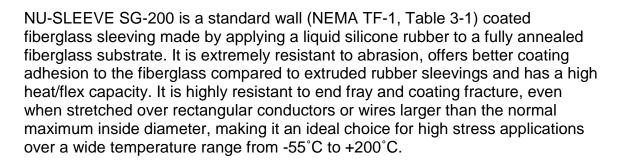


FAN⊙U NU-SLEEVE SG-200™

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SILICONE RUBBER COATED BRAIDED FIBERGLASS SLEEVING

- Class "R" Insulation rated to 200°C.
- Grade A (7000V) UL & CSA Recognized-UL File #E93101, CSA File #LR67735
- Grade B (4000V) VW-1 Flame Retardant -UL File #E80713
- Applicable Specifications:
 - NEMA TF-1 Type 5
 - o UL 1441 VW-1
 - o FMVSS 302
 - o SAE ARP 1536 Abrasion Test
 - MIL-I-3190/6, QPL-3190:
 Grade A (8000V)
- RoHS and WEEE compliant.
- Low Temperature Brittle Point Below -70°C
- Available Sizes: AWG #24 1 1/2"
- Packaging: Standard Spools, Bulk Spools, Cut to length (½" diameter and under).
- Colors: White, Black, Natural, Red Iron Oxide are standard. Other available colors are subject to factory quotation upon request.



NU-SLEEVE SG-200 is highly resistant to inorganic acids and alkalis. Chlorinated organic solvents and aromatic hydrocarbons will cause some swelling and subsequent reduction in Tensile strength. Testing with ASTM #1 Oil, a slight swelling was produced, while IRM #903 Oil will produce a higher volume increase of up to 40%.



NU-SLEEVE SG-200 is used extensively in high temperature applications where one or more of the following features are required: flexibility, expandability, abrasion resistance, cut-through resistance and chemical resistance. It finds application in terminal and lead insulation and protection, wire harness protection in extreme environments as well as high current dry transformers. It may also be stacked to obtain higher dielectric voltage ratings.

NEMA Grades	Jenisco Spec.	Markel Hygrade Spec.	Min. Average Breakdown	Min. Individual Breakdown
SG-200 A	ER565	SR-398A	7000V	5000V
SG-200 B	ER564	SR-398B	4000V	2500V
SG-200 C	ER563	SR-398C	2500V	1500V

NEMA	Nominal Diameter	Nominal Diameter	Sofanou Grade A	Minimum Diameter	Maximum Diameter
Size	(inches)	(mm)	Part No.	(inches)	(inches)
24	0.024	0.61	ER5650024X	0.020	0.027
22	0.024	0.74	ER5650022X	0.025	0.032
20	0.036	0.91	ER5650020X	0.023	0.032
18	0.030	1.12	ER5650018X	0.032	0.039
17	0.049	1.24	ER5650017X	0.045	0.054
16	0.056	1.42	ER5650016X	0.051	0.061
15	0.062	1.57	ER5650015X	0.057	0.067
14	0.069	1.75	ER5650014X	0.057	0.007
13	0.009	1.75	ER5650013X	0.004	0.074
12	0.086	2.18	ER5650012X	0.072	0.082
11	0.086	2.44	ER5650012X ER5650011X	0.081	0.091
10	0.096	2.72	ER5650011X ER5650010X	0.091	0.101
9	0.107	3.02	ER5650010X ER5650009X	0.102	0.112
<u> </u>	0.119	3.43		0.114	0.124
			ER5650008X		-
7	0.148	3.76	ER5650007X	0.144	0.158
6	0.166	4.22	ER5650006X	0.162	0.178
5	0.186	4.72	ER5650005X	0.182	0.198
4	0.208	5.28	ER5650004X	0.204	0.224
3	0.234	5.94	ER5650003X	0.229	0.249
2	0.263	6.68	ER5650002X	0.258	0.278
1	0.294	7.47	ER5650001X	0.289	0.311
5/16" 0	0.313 0.330	7.95 8.38	ER5650312X	0.313 0.325	0.334 0.347
3/8"	0.330	9.83	ER5650000X ER5650375X	0.325	0.347
7/16"	0.450	11.43	ER5650437X	0.438	0.462
1/2"	0.512	13.00	ER5650500X	0.500	0.524
5/8"	0.640	16.26	ER5650625X	0.625	0.655
3/4"	0.768	19.51	ER5650750X	0.750	0.786
7/8"	0.893	22.68	ER5650875X	0.875	0.911
1"	1.018	25.86	ER5651000X	1.000	1.036
1 1/8"	1.144	29.06	ER5651125X	1.125	1.161
1 1/4"	1.260	31.75	ER5651250X	1.250	1.286
1 1/2"	1.518	38.56	ER5651500X	1.500	1.536

Notes: 1) For Grade B (4000V) substitute ER564 and for Grade C (2500V) substitute ER563 for ER565 Grade A (7000V) shown in the above part number.

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²⁾ X in the part numbers listing used to designate color. B=Black, N=Natural, RO=Red Oxide, W=White. Consult the factory for availability of other colors.

-70°C to 200°C Operating Range (NEMA Class H):

Dry: 8,000 Volts, 60Hz AC @ 500V/sec. Rate of rise Dielectric Strength Grade A:

Wet: >80% of the dry values

Dielectric Constant: (10,000 Hz) 2.86

(100 Hz) 2.87

Ohm.cm x 10¹³ 6.1 Volume Resistivity: Dissipation Factor: (10,000 Hz) .0011 (100Hz) .0016

Tensile Strength: Mpa 8.3 Shore A Hardness: 37 % Elongation at Break: 420

Fungus Resistance: Inert None at 40x

Rate of Burning: Self-extinguishing with removal of flame source

Radiation Resistance: No effect (10 Mrads)

DELPHI M4613

275°C for 136 hours - no effect. Heat Age

Flammability Self-extinguishing

Fluid exposure

Brake fluids No effect Transmission fluids No effect Antifreeze No effect Washer solutions No effect No effect Fuel C Pwr. Steering fluid No effect Diesel No effect

Battery electrolyte No effect Oil No effect

Abrasion resistance 1500 cycles, minimum