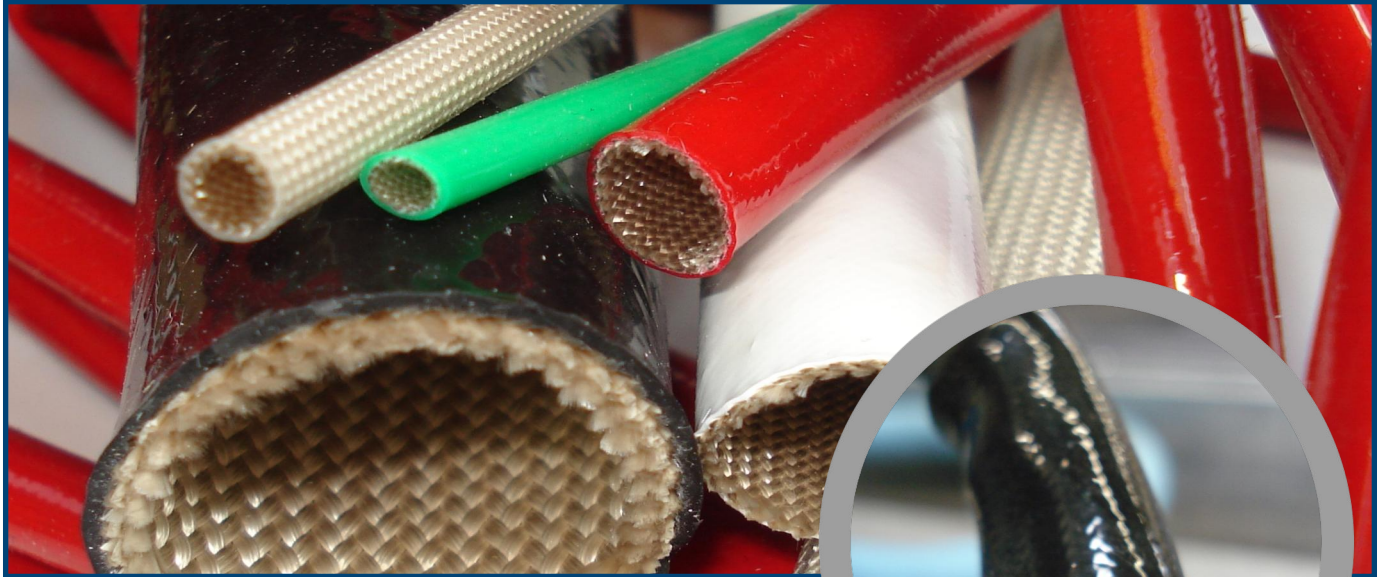
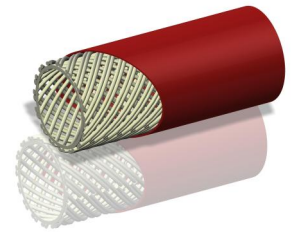


# Coated Fiberglass Sleeve



## NU-SLEEVE SG-200

NU-SLEEVE SG-200 is a braided fiberglass sleeve coated with a liquid silicone rubber. The braid is heat treated to optimize coating adhesion and minimize surface irregularities.

NU-SLEEVE SG-200 is available in 5 electrical grades (A, B, C-1, C-2 and C-3). It is highly resistant to end-fray and coating fractures and is a **non-flammable** sleeve.

NU-SLEEVE SG-200 is the ideal choice for high stress applications over a wide temperature range from -55°C (-67°F) up to 200°C (392°F).

It 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.

**Typical applications include:** coil and winding industry (coils, motors, generators, transformers...); lighting fixtures; transportation (mass transit, rail cars, locomotives...); recreational vehicles; pleasure boats and commercial marine; industrial equipment (tow motors, overhead cranes, aerial platforms...); commercial cookware (fryers, rotisseries, steamers...); appliances; custom car markets; wind turbines and solar panels; mining and forestry industries; heating and cooling; heavy truck market; and in many other industrial fields.

### Specifications:

- Grade A: UL File #E93101, CSA File #LR67735 (Electrical component) ; MIL-I-3190/6 ; QPL-3190
- Grades A & B: UL 1441 VW-1 Flame rated: UL File#E80713/#E93101
- NEMA TF-1 Type 5 and NEMA TF-1, Table 3-1
- UL1441 VW-1 flame rated
- RoHS and WEEE compliant



## Characteristics & Properties

# Nu-Sleeve SG-200

Physical properties	Value
Op. temperature (NEMA class H)	-55°C / 200°C (-67°F / 392°F)
Dielectric strength	dry: 8,000 volts, 60 Hz AC @ 500 V/s rate of rise wet: >80% of the dry values
Dielectric constant	2.86 (10,000 Hz) 2.87 (100 Hz)
Volume resistivity	6.1 Ohm.cm $\times 10^{13}$
Dissipation factor	.0011 (10,000 Hz) .0016 (100 Hz)
Tensile strength	8.3 MPa
Hardness	37 Shore A
Elongation at break	420 %
Fungus resistance	Inert - none at 40x
Rate of burning	self-extinguishing with removal of heat source
Heat aging	no effect - 275°C (527°F) for 136hr
Flammability	UL 1441 VW-1 - pass
Abrasion resistance (SAE ARP 1536)	2,300 cycles
Chemical resistance	no effect: brake fluid, transmission fluid, antifreeze, washer solution, fuels, power steering fluid, diesel, battery electrolyte, oils...

### Colors:

- Grade A and Grade B: black, white, natural (tan), red, red oxide, blue, yellow, green and orange.
- Grades C: black, natural (tan), red, blue, yellow, green and orange.

Other colors upon request.

### Dielectric grades

NEMA Grades	Min. average breakdown	Min. individual breakdown
NU-SLEEVE SG-200 A	7000V	5000V
NU-SLEEVE SG-200 B	4000V	2500V
NU-SLEEVE SG-200 C-1	2500V	1500V
NU-SLEEVE SG-200 C-2	1500V	700V
NU-SLEEVE SG-200 C-3	no dielectric value	

### Dimensions

Following sizes are from #24 thru 1 1/2".

Higher diameters available upon request.

Designation*	NEMA sizes	Minimum Ø (inches)	Maximum Ø (inches)	Indicative nominal Ø (inches)	Indicative nominal Ø (mm)
NU-SLEEVE SG-200 A AWG 24	24	0.020	0.027	0.024	0.61
NU-SLEEVE SG-200 A AWG 22	22	0.025	0.032	0.029	0.74
NU-SLEEVE SG-200 A AWG 20	20	0.032	0.039	0.036	0.91
NU-SLEEVE SG-200 A AWG 19	19	0.036	0.044	0.040	1.02
NU-SLEEVE SG-200 A AWG 18	18	0.040	0.049	0.045	1.14
NU-SLEEVE SG-200 A AWG 17	17	0.045	0.054	0.050	1.27
NU-SLEEVE SG-200 A AWG 16	16	0.051	0.061	0.056	1.42
NU-SLEEVE SG-200 A AWG 15	15	0.057	0.067	0.062	1.57
NU-SLEEVE SG-200 A AWG 14	14	0.064	0.074	0.069	1.75
NU-SLEEVE SG-200 A AWG 13	13	0.072	0.082	0.077	1.96
NU-SLEEVE SG-200 A AWG 12	12	0.081	0.091	0.086	2.18
NU-SLEEVE SG-200 A AWG 11	11	0.091	0.101	0.096	2.44
NU-SLEEVE SG-200 A AWG 10	10	0.102	0.112	0.107	2.72
NU-SLEEVE SG-200 A AWG 9	9	0.114	0.124	0.119	3.02
NU-SLEEVE SG-200 A AWG 8	8	0.129	0.141	0.135	3.43
NU-SLEEVE SG-200 A AWG 7	7	0.144	0.158	0.151	3.84
NU-SLEEVE SG-200 A AWG 6	6	0.162	0.178	0.170	4.32
NU-SLEEVE SG-200 A AWG 5	5	0.182	0.198	0.190	4.83
NU-SLEEVE SG-200 A AWG 4	4	0.204	0.224	0.214	5.44
NU-SLEEVE SG-200 A AWG 3	3	0.229	0.249	0.239	6.07
NU-SLEEVE SG-200 A AWG 2	2	0.258	0.278	0.268	6.81
NU-SLEEVE SG-200 A AWG 1	1	0.289	0.311	0.300	7.62
NU-SLEEVE SG-200 A 5/16	5/16"	0.313	0.334	0.324	8.23
NU-SLEEVE SG-200 A AWG 0	0	0.325	0.347	0.336	8.53
NU-SLEEVE SG-200 A 3/8	3/8"	0.375	0.399	0.387	9.83
NU-SLEEVE SG-200 A 7/16	7/16"	0.438	0.462	0.450	11.43
NU-SLEEVE SG-200 A 1/2	1/2"	0.500	0.524	0.512	13.00
NU-SLEEVE SG-200 A 5/8	5/8"	0.625	0.655	0.640	16.26
NU-SLEEVE SG-200 A 3/4	3/4"	0.750	0.786	0.768	19.51
NU-SLEEVE SG-200 A 7/8	7/8"	0.875	0.911	0.893	22.68
NU-SLEEVE SG-200 A 1	1"	1.000	1.036	1.018	25.86
NU-SLEEVE SG-200 A 1 1/8	1 1/8"	1.125	1.161	1.143	29.03
NU-SLEEVE SG-200 A 1 1/4	1 1/4"	1.250	1.286	1.268	32.21
NU-SLEEVE SG-200 A 1 1/2	1 1/2"	1.500	1.536	1.518	38.56

\*Designation for grade A sleeve. For other dielectric grades, replace the A by B, C-1, C-2, or C-3.

### Packaging

NU-SLEEVE SG-200 is delivered in spools, bulk spools or in cut lengths.

Data and photos for information only, Delfingen makes no warranties as to the accuracy or completeness of this information. Delfingen reserves the right to make changes in materials or processing without notification.

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