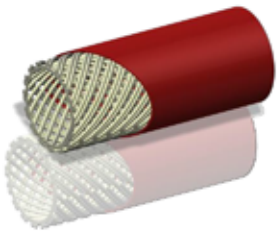
Coated Fiberglass Sleeve





NU-SLEEVE T117-E

NU-SLEEVE T117-E is made of specially formulated high temperature silicone rubber extruded onto premium electrical grade braided fiberglass sleeve.

The extrusion process results in a higher density coating that is more homogeneous, has better concentricity and yields longer continuous lengths than the typical liquid dipped products common to the industry.

NU-SLEEVE T117-E is rated Class H by IEEE standards, acceptable for continuous service from -55°C (-67°F) through 200°C (392°F) and operation at temperatures up to 315°C (600°F) is tolerated for short durations.

NU-SLEEVE T117-E exceeds all requirements of UL Subject 224 for 200°C, 600-volt operation.

The coating maintains its electrical integrity, even under severe fire conditions by forming a non-conductive ash.

The NU-SLEEVE T117 range is also available in a flame retardant (**NU-SLEEVE T117-FR**) or in a high voltage (**NU-SLEEVE T117-HV**) versions.

Typical applications include: coil and winding industry (coils, motors, generators, transformers…); 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.
It meets NFPA 130 specification for transportation applications (mass transit, rail cars, locomotives…).

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Fiberglass Sleeving

Characteristics & Properties

- **Operating temperature:** -55°C / +200°C (-67°F / +392°F).
- **Colors:** standard colors are black, white, natural, red oxide, red, blue, yellow, green and orange.
- **Printed logo:** a logo can be printed using gold, black or white.
- **Specifications:** Grade A: UL File #E93101/#E80713, CSA File #LR94072, MIL-I-3190/6. NEMA TF-1, Type 5; ASTM D372.
- **Surface flammability (ASTM E 162):** pass.
- **Toxic gas generation (Boeing BSS7239):** pass.
- **Rate of smoke generation (ASTM E 662):** pass.
- **Chemical resistance (coating properties):** moisture, corona, ozone, radiation, compression set, fungus, most chemicals/solvents, weathering, flexure fatigue, heat degradation.



Dielectric grades

NEMA Grades	Min. average breakdown	Min. individual breakdown
NU-SLEEVE T117-E G	10000V	7000V
NU-SLEEVE T117-E A	7000V	5000V
NU-SLEEVE T117-E B	4000V	2500V
NU-SLEEVE T117-E C	2500V	1500V

Dimensions

Designation*	NEMA sizes	Minimum Ø (inches)	Maximum Ø (inches)	Indicative nominal Ø	
				(inches)	(mm)
NU-SLEEVE T117-E G AWG 24	24	0.020	0.027	0.024	0.61
NU-SLEEVE T117-E G AWG 22	22	0.025	0.032	0.029	0.74
NU-SLEEVE T117-E G AWG 20	20	0.032	0.039	0.036	0.91
NU-SLEEVE T117-E G AWG 19	19	0.036	0.044	0.040	1.02
NU-SLEEVE T117-E G AWG 18	18	0.040	0.049	0.045	1.14
NU-SLEEVE T117-E G AWG 17	17	0.045	0.054	0.050	1.27
NU-SLEEVE T117-E G AWG 16	16	0.051	0.061	0.056	1.42
NU-SLEEVE T117-E G AWG 15	15	0.057	0.067	0.062	1.57
NU-SLEEVE T117-E G AWG 14	14	0.064	0.074	0.069	1.75
NU-SLEEVE T117-E G AWG 13	13	0.072	0.082	0.077	1.96
NU-SLEEVE T117-E G AWG 12	12	0.081	0.091	0.086	2.18
NU-SLEEVE T117-E G AWG 11	11	0.091	0.101	0.096	2.44
NU-SLEEVE T117-E G AWG 10	10	0.102	0.112	0.107	2.72
NU-SLEEVE T117-E G AWG 9	9	0.114	0.124	0.119	3.02
NU-SLEEVE T117-E G AWG 8	8	0.129	0.141	0.135	3.43
NU-SLEEVE T117-E G AWG 7	7	0.144	0.158	0.151	3.84
NU-SLEEVE T117-E G AWG 6	6	0.162	0.178	0.170	4.32
NU-SLEEVE T117-E G AWG 5	5	0.182	0.198	0.190	4.83
NU-SLEEVE T117-E G AWG 4	4	0.204	0.224	0.214	5.44
NU-SLEEVE T117-E G AWG 3	3	0.229	0.249	0.239	6.07
NU-SLEEVE T117-E G AWG 2	2	0.258	0.278	0.268	6.81
NU-SLEEVE T117-E G AWG 1	1	0.289	0.311	0.300	7.62
NU-SLEEVE T117-E G 5/16	5/16"	0.313	0.334	0.324	8.23
NU-SLEEVE T117-E G AWG 0	0	0.325	0.347	0.336	8.53
NU-SLEEVE T117-E G 3/8	3/8"	0.375	0.399	0.387	9.83
NU-SLEEVE T117-E G 7/16	7/16"	0.438	0.462	0.450	11.43
NU-SLEEVE T117-E G 1/2	1/2"	0.500	0.524	0.512	13.00
NU-SLEEVE T117-E G 5/8	5/8"	0.625	0.655	0.640	16.26
NU-SLEEVE T117-E G 3/4	3/4"	0.750	0.786	0.768	19.51
NU-SLEEVE T117-E G 7/8	7/8"	0.875	0.911	0.893	22.68
NU-SLEEVE T117-E G 1	1"	1.000	1.036	1.018	25.86

* Designation for grade G sleeve. For other dielectric grades, replace the G by *A*, *B* or *C*.

Packaging

NU-SLEEVE T117-E is delivered in standard spools, bulk spools or in cut lengths upon request.