Coated Fiberglass Sleeve





NU-SLEEVE VPI-200

NU-SLEEVE VPI-200 is a silicone rubber coated fiberglass sleeve that is over-braided with a 3-ply fiberglass braid.

This double wall sleeve provides higher abrasion resistance and for vacuum pressure impregnation.

The over-braid bonding process adheres the over-braid to the silicone coated substrate and minimizes end fray to improve assembly performance and eliminate the long term handling effects of operator dermatitis.

NU-SLEEVE VPI-200 has excellent electrical properties up to 15kV and stands to very high temperatures up to 200°C (392°F).

Typical applications include: coil and winding industry (coils, motors, generators, transformers…); wind turbines and solar panels; and in many other industrial fields.

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Fiberglass Sleeving

Characteristics & Properties

- **Colors:** natural (tan) only.
- **Specifications:** Silicone rubber coated fiberglass sleeve recognized by UL and CSA with E-Glass overbraid for high voltage / VPI applications (UL File #E93101 and CSA File #LR67735 Grade A recognized). NEMA TF-1 Type 6 ; UL1441 VW-1 flame rated; MIL-I-3190/6, QPL-3190 as it relates to Nu-Sleeve AG-155 sub-component.

Physical properties	Value
Operating temperature (NEMA class H)	-10°C / 200°C (14°F / 392°F)
Dieletric strength*	up to 15kV
Dielectric constant	2.86 (10,000 Hz) 2.87 (100 Hz)
Volume resistivity	6.2 Ohm.cmx10^{14}
Dissipation factor	.0011 (10,00 Hz) .0016 (100 Hz)
Tensile strength	8.3 MPa
Hardness	340 Shore A
Elongation at break	410 %
Fungus resistance	Inert - none at 40x
Flammability	self-extinguishing with removal of heat source

* Dielectric strength is the average of 10 tests, no single reading less than 5kV VAC.

Dimensions

Designation	NEMA sizes	Minimum Ø (inches)	Maximum Ø (inches)	Indicative nominal Ø	
				(inches)	(mm)
NU-SLEEVE VPI-200 AWG 8	8	0.129	0.141	0.135	3.43
NU-SLEEVE VPI-200 AWG 7	7	0.144	0.158	0.151	3.84
NU-SLEEVE VPI-200 AWG 6	6	0.162	0.178	0.170	4.32
NU-SLEEVE VPI-200 AWG 5	5	0.182	0.198	0.190	4.83
NU-SLEEVE VPI-200 AWG 4	4	0.204	0.224	0.214	5.44
NU-SLEEVE VPI-200 AWG 3	3	0.229	0.249	0.239	6.07
NU-SLEEVE VPI-200 AWG 2	2	0.258	0.278	0.268	6.81
NU-SLEEVE VPI-200 AWG 1	1	0.289	0.311	0.300	7.62
NU-SLEEVE VPI-200 5/16	5/16"	0.313	0.334	0.324	8.23
NU-SLEEVE VPI-200 AWG 0	0	0.325	0.347	0.336	8.53
NU-SLEEVE VPI-200 3/8	3/8"	0.375	0.399	0.387	9.83
NU-SLEEVE VPI-200 7/16	7/16"	0.438	0.462	0.450	11.43
NU-SLEEVE VPI-200 1/2	1/2"	0.500	0.524	0.512	13.00
NU-SLEEVE VPI-200 5/8	5/8"	0.625	0.655	0.640	16.26
NU-SLEEVE VPI-200 3/4	3/4"	0.750	0.786	0.768	19.51

Packaging

NU-SLEEVE VPI-200 is delivered in standard spools, bulk spools or in cut lengths upon request.