Coated Fiberglass Sleeve





NU-SLEEVE VPI-155

NU-SLEEVE VPI-155 is a Grade A acrylic resin coated fiberglass sleeve with a bonded over-braided outer layer of fiberglass braid.

This combination makes NU-SLEEVE VPI-155 a flexible and highly protective sleeve, with a higher surface area for the absorption and retention of the vacuum pressure impregnation resin.

It reduces end fray and operator dermatitis during cutting and handling operations.

NU-SLEEVE VPI-155 has high dielectric properties (up to 7000V) and stands to high temperatures up to 155°C (311°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:** standard color is natural (white) only.
- **Specifications:** Grade A: UL File #E93101, CSA File #LR67735, NEMA TF-1 Type 6, MIL–I–3190/3, ASTM-D372 as it relates to Nu-Sleeve AG-155 sub-component.
- **Insulation class:** meet the requirement of class F rated at 155°C (311°F).

Physical properties	Value
Operating temp. (NEMA class F)	-10°C / 155°C (14°F / 311°F)
Dieletric strength	dry: 7,000 volts, 60 Hz AC @ 500 V/s rate of rise wet: >80% of the dry values
Dielectric constant	2.5 (1,000 Hz)
Volume resistivity	1 Ohm.cmx10^{10}
Dissipation factor	.07 (1,000 Hz)
Cut through resistance	excellent
Flexibility (NEMA TF-1)	does not crack when bent 180° around mandrel after heat age at 175°C (347°F) for 96 hours
Elongation at break	150 %
Fungus resistance	very good - none at 10x
Flammability	meets MIL-I-3190/3 and NEMA TF-1

Dimensions

Designation	NEMA sizes	Minimum Ø (inches)	Maximum Ø (inches)	Indicative nominal Ø	
				(inches)	(mm)
NU-SLEEVE VPI-155 AWG 8	8	0.129	0.141	0.135	3.43
NU-SLEEVE VPI-155 AWG 7	7	0.144	0.158	0.151	3.84
NU-SLEEVE VPI-155 AWG 6	6	0.162	0.178	0.170	4.32
NU-SLEEVE VPI-155 AWG 5	5	0.182	0.198	0.190	4.83
NU-SLEEVE VPI-155 AWG 4	4	0.204	0.224	0.214	5.44
NU-SLEEVE VPI-155 AWG 3	3	0.229	0.249	0.239	6.07
NU-SLEEVE VPI-155 AWG 2	2	0.258	0.278	0.268	6.81
NU-SLEEVE VPI-155 AWG 1	1	0.289	0.311	0.300	7.62
NU-SLEEVE VPI-155 5/16	5/16"	0.313	0.334	0.324	8.23
NU-SLEEVE VPI-155 AWG 0	0	0.325	0.347	0.336	8.53
NU-SLEEVE VPI-155 3/8	3/8"	0.375	0.399	0.387	9.83
NU-SLEEVE VPI-155 7/16	7/16"	0.438	0.462	0.450	11.43
NU-SLEEVE VPI-155 1/2	1/2"	0.500	0.524	0.512	13.00
NU-SLEEVE VPI-155 5/8	5/8"	0.625	0.655	0.640	16.26
NU-SLEEVE VPI-155 3/4	3/4"	0.750	0.786	0.768	19.51
NU-SLEEVE VPI-155 7/8	7/8"	0.875	0.911	0.893	22.68
NU-SLEEVE VPI-155 1	1"	1.000	1.036	1.018	25.86

Packaging

NU-SLEEVE VPI-155 is delivered in standard spools, bulk spools or in cut lengths upon request.