Coated Fiberglass Sleeve





NU-SLEEVE AG-155

NU-SLEEVE AG-155 is a fiberglass sleeve coated with a blend of acrylic polymers.

NU-SLEEVE AG-155 provides electrical protection and has excellent chemical resistance. It exhibits excellent heat stability and flexibility for ease of push-up and recovery.

NU-SLEEVE AG-155 stands to temperatures running up to 155°C (311°F).

Typical applications include:
coil and winding industry (coils, motors, generators, transformers…); lighting fixtures; transportation (mass transit, rail cars, locomotives…); industrial equipment (tow motors, overhead cranes, aerial platforms…); technology, media and telecommunications; appliances; wind turbines and solar panels; and in many other industrial fields.

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Fiberglass Sleeving

Nu-Sleeve AG-155

Characteristics & Properties

- **Colors:** black, natural (tan), red, yellow, blue, green and orange. Other colors upon request.
- **Specifications:** Grade A: UL File #E93101, CSA File #LR67735, MIL-I-3190/3, QPL-3190. NEMA TF-1 Type 6; UL1441 VW-1 flame rated. RoHS and WEEE compliant.
- **Insulation class:** meet the requirement of class F rated at 155°C (311°F).

Physical properties	Value
Op. temperature (NEMA class F)	-40°C / 155°C (-40°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
Abrasion resistance (SAE ARP 1536)	2500 cycles

Dielectric grades

NEMA Grades	Min. average breakdown	Min. individual breakdown
NU-SLEEVE AG-155 A	7000V	5000V
NU-SLEEVE AG-155 B	4000V	2500V
NU-SLEEVE AG-155 C-1	2500V	1500V
NU-SLEEVE AG-155 C-2	1500V	800V
NU-SLEEVE AG-155 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 AG-155 A AWG 24	24	0.020	0.027	0.024	0.61
NU-SLEEVE AG-155 A AWG 22	22	0.025	0.032	0.029	0.74
NU-SLEEVE AG-155 A AWG 20	20	0.032	0.039	0.036	0.91
NU-SLEEVE AG-155 A AWG 19	19	0.036	0.044	0.040	1.02
NU-SLEEVE AG-155 A AWG 18	18	0.040	0.049	0.045	1.14
NU-SLEEVE AG-155 A AWG 17	17	0.045	0.054	0.050	1.27
NU-SLEEVE AG-155 A AWG 16	16	0.051	0.061	0.056	1.42
NU-SLEEVE AG-155 A AWG 15	15	0.057	0.067	0.062	1.57
NU-SLEEVE AG-155 A AWG 14	14	0.064	0.074	0.069	1.75
NU-SLEEVE AG-155 A AWG 13	13	0.072	0.082	0.077	1.96
NU-SLEEVE AG-155 A AWG 12	12	0.081	0.091	0.086	2.18
NU-SLEEVE AG-155 A AWG 11	11	0.091	0.101	0.096	2.44
NU-SLEEVE AG-155 A AWG 10	10	0.102	0.112	0.107	2.72
NU-SLEEVE AG-155 A AWG 9	9	0.114	0.124	0.119	3.02
NU-SLEEVE AG-155 A AWG 8	8	0.129	0.141	0.135	3.43
NU-SLEEVE AG-155 A AWG 7	7	0.144	0.158	0.151	3.84
NU-SLEEVE AG-155 A AWG 6	6	0.162	0.178	0.170	4.32
NU-SLEEVE AG-155 A AWG 5	5	0.182	0.198	0.190	4.83
NU-SLEEVE AG-155 A AWG 4	4	0.204	0.224	0.214	5.44
NU-SLEEVE AG-155 A AWG 3	3	0.229	0.249	0.239	6.07
NU-SLEEVE AG-155 A AWG 2	2	0.258	0.278	0.268	6.81
NU-SLEEVE AG-155 A AWG 1	1	0.289	0.311	0.300	7.62
NU-SLEEVE AG-155 A 5/16	5/16"	0.313	0.334	0.324	8.23
NU-SLEEVE AG-155 A AWG 0	0	0.325	0.347	0.336	8.53
NU-SLEEVE AG-155 A 3/8	3/8"	0.375	0.399	0.387	9.83
NU-SLEEVE AG-155 A 7/16	7/16"	0.438	0.462	0.450	11.43
NU-SLEEVE AG-155 A 1/2	1/2"	0.500	0.524	0.512	13.00
NU-SLEEVE AG-155 A 5/8	5/8"	0.625	0.655	0.640	16.26
NU-SLEEVE AG-155 A 3/4	3/4"	0.750	0.786	0.768	19.51
NU-SLEEVE AG-155 A 7/8	7/8"	0.875	0.911	0.893	22.68
NU-SLEEVE AG-155 A 1	1"	1.000	1.036	1.018	25.86
NU-SLEEVE AG-155 A 1 1/8	1 1/8"	1.125	1.161	1.143	29.03
NU-SLEEVE AG-155 A 1 1/4	1 1/4"	1.250	1.286	1.268	32.21
NU-SLEEVE AG-155 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 AG-155 is delivered in spools, bulk spools or in cut lengths.