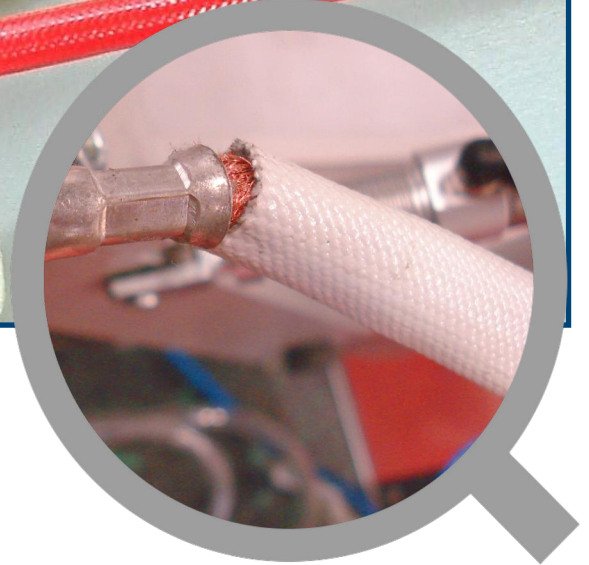
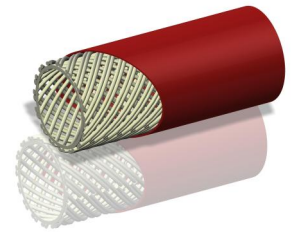


# Coated Fiberglass Sleeve



## 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.

## 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)
Dielectric 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.cm $\times 10^{10}$
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) (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.

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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