

# NU-SLEEVE AG-155

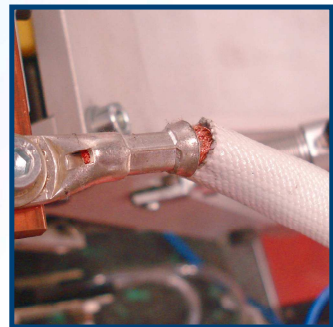
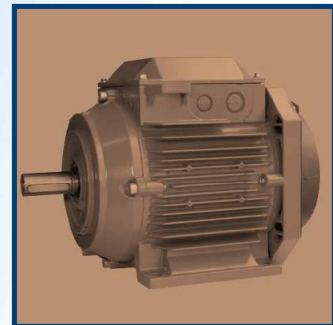
Electrical Equipment

NU-SLEEVE AG-155 is a coated fiberglass sleeving made by applying a proprietary blend of acrylic polymers to a closely woven electrical grade fiberglass substrate.

NU-SLEEVE AG-155 has excellent electrical, chemical and oil resistance properties, excellent heat stability and flexibility for ease of push-up and recovery. It exhibits excellent resistance to oils, acids and alkalis and solvents. Resistance to fungus and corona is good.

NU-SLEEVE AG-155 (Grade A) is recognized by Underwriters Laboratories under UL file #93101 and by Canadian Standards Association (CSA) under file #LR-67735.

NU-SLEEVE AG-155 is available in NEMA Grades A, B, C-1, C-2 and C-3. For Grade C-3, dielectric value is dependent on static conditions with no specific voltage value guaranteed.



All our sites are ISO TS16949  
and ISO 14001 certified

 **DELFINGEN**  
INDUSTRY

## Applications

NU-SLEEVE AG-155 is compatible with virtually all electrical grade insulating varnishes and impregnation systems making it ideally suited for leads and crossovers in fractional and integral horsepower motors, dry or oil filled, transformers generators, welding apparatus, relays and moisture sensitive equipment.

NU-SLEEVE AG-155 is used extensively in consumer appliances, lighting fixtures, stove, oven and furnace controls as well as relays, breaker panels, switchgear and other commercial and industrial apparatus where high electrical performance and outstanding resistance to mechanical and environmental degradation is required.

## ACRYLIC COATED BRAIDED FIBERGLASS SLEEVING

- Class 155 Insulation
- Grade A (7000V) UL 1 CSA recognized UL File #E93101 CSA File#LR67735
- **Applicable Specifications:**
  - NEMA TF-1 Type 6
  - UL 1441
  - MIL-I-3190/3, QPL-3190 : Grade A (8000V)
- RoHS and WEEE compliant
- Low temperature brittle point -40°C
- Available sizes: AWG#24 - 1 1/4"
- Colors: black, natural (white), tan are standard. Other available colors upon request.

Physical characteristics	
Operating range (Nema Class F)	-40°C to 155°C
Dielectric strength	DRY: 7,000 Volts, 60Hz AC @ 500 V / s rate of rise WET: >80% of the dry value
Dielectric constant (1,000 Hz)	2.5
Volume resistivity (Ohm cm x 10 <sup>10</sup> )	1
Dissipation factor (1,000 Hz)	.07
Cut through resistance	Excellent
Flexibility	Does not crack when bent 180° around mandrel per NEMA TF-1 after heat age at 175°C for 96 hrs
Elongation at break (% minimum)	150
Fungus resistance	Very good - none at 10x
Rate of burning	Meets MIL-I-3190/3 and NEMA TF-1

NEMA Grades	Jenisco Spec.	Markel Hygrade Spec.	Min. average breakdown	Min. individual breakdown
AG-155 A	AC435	Polytube 463 A	7000V	5000V
AG-155 B	AC434	Polytube 463 B	4000V	2500V
AG-155 C-1	AC433	Polytube 463 C	2500V	1500V
AG-155 C-2	AC432	Polytube 463 C-2	1500V	800V
AG-155 C-3	AC431	N/A	N/A	N/A

## Dimensions

NEMA Size	Nominal Diameter (inches)	Nominal Diameter (mm)	Delfingen Grade A Part No.	Minimum Diameter (inches)	Maximum Diameter (inches)
24	0.024	0.61	AC4350024X	0.020	0.027
22	0.029	0.74	AC4350022X	0.025	0.032
20	0.036	0.91	AC4350020X	0.032	0.039
19	0.038	0.96	AC4350019X	0.036	0.044
18	0.044	1.12	AC4350018X	0.040	0.049
17	0.049	1.24	AC4350017X	0.045	0.054
16	0.056	1.42	AC4350016X	0.051	0.061
15	0.062	1.57	AC4350015X	0.057	0.067
14	0.069	1.75	AC4350014X	0.064	0.074
13	0.077	1.96	AC4350013X	0.072	0.082
12	0.086	2.18	AC4350012X	0.081	0.091
11	0.096	2.44	AC4350011X	0.091	0.101
10	0.107	2.72	AC4350010X	0.102	0.112
9	0.119	3.02	AC4350009X	0.114	0.124
8	0.135	3.43	AC4350008X	0.129	0.141
7	0.148	3.76	AC4350007X	0.144	0.158
6	0.166	4.22	AC4350006X	0.162	0.178
5	0.186	4.72	AC4350005X	0.182	0.198
4	0.208	5.28	AC4350004X	0.204	0.224
3	0.234	5.94	AC4350003X	0.229	0.249
2	0.263	6.68	AC4350002X	0.258	0.278
1	0.294	7.47	AC4350001X	0.289	0.311
5/16"	0.313	7.95	AC4350312X	0.313	0.334
0	0.330	8.38	AC4350000X	0.325	0.347
3/8"	0.387	9.83	AC4350375X	0.375	0.399
7/16"	0.450	11.43	AC4350437X	0.438	0.462
1/2"	0.512	13.00	AC4350500X	0.500	0.524
5/8"	0.640	16.26	AC4350625X	0.625	0.655
3/4"	0.768	19.51	AC4350750X	0.750	0.786
7/8"	0.893	22.68	AC4350875X	0.875	0.991
1"	1.018	25.86	AC4351000X	1.000	1.036
1 1/8"	1.144	29.06	AC4351125X	1.125	1.161
1 1/4"	1.260	31.75	AC4351250X	1.250	1.286

### Notes

1) For Grade B (4000V), Grade C-1 (2500V), Grade C-2 (1500VAC) or Grade C-3, substitute AC434, AC433, AC432 or AC431 respectively for AC435 in the above part number listings.

2) X in the part numbers listing is used to designate color. B=Black, N=Natural, R=Red, T=Tan, W=White, Y=Yellow etc. Consult the factory for availability of other colors.

### Packaging

Standard spools, bulk spools, cut to length.

Data & photos for information only, subject to modifications without notice

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