Coated Fiberglass Sleeve





NU-SLEEVE VG-130

NU-SLEEVE VG-130 is a vinyl coated fiberglass sleeve made by applying an appropriate plastisol specially formulated for heat resistance and stability to a closely braided electrical grade fiberglass substrate.

This combination provides a tough abrasion resistant yet flexible insulation, capable of being pushed back, expanded, stretched, flattened and bent into any shape desired or knotted... all without loss of dielectric strength or stability.

Typical applications include: coil and winding industry (coils, motors, generators, transformers...); lighting fixtures; technology, media and telecommunications; appliances; wind turbines and solar panels; and in many other industrial fields.

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Fiberglass Sleeving

Nu-Sleeve VG-130

Characteristics & Properties

- **Colors:** black, white, natural (tan), red, yellow, blue and green. Other colors upon request.
- **Specifications:** Grade A: UL File #E93101, CSA File #LR67735, MIL-I-3190/2, QPL-3190; Grade B: UL File #E80713, UL 1441 VW-1 flame rated. NEMA TF-1 Type 2; UL1441 VW-1 flame rated; RoHS and WEEE compliant.
- **Insulation class:** meet the requirement of class B rated at 130°C (266°F).

Physical properties	Value
Op. temperature (NEMA Type 2)	-20°C / 130°C (-4°F / 266°F)
Dieletric strength	7,000 VAC average, 5,000 VAC minimum, 60 Hz AC @ 500V / S rate of rises
Dielectric constant	3.8 (1,000 Hz)
Volume resistivity	1.0 Ohm.cmx10^9
Dissipation factor	.01 (1,000 Hz)
Cut through resistance	excellent
Heat aging	96 hrs. at 155°C (311°F) – No cracking
Oil resistance	No swelling or disintegration
Fungus resistance	very good
Flammability	meets MIL-I-3190 and NEMA TF-1

Dielectric grades

NEMA Grades	Min. average breakdown	Min. individual breakdown
NU-SLEEVE VG-130 A	7000V	5000V
NU-SLEEVE VG-130 B	4000V	2500V
NU-SLEEVE VG-130 C-1	2500V	1500V

Dimensions

Designation*	NEMA sizes	Minimum Ø (inches)	Maximum Ø (inches)	Indicative nominal Ø	
				(inches)	(mm)
NU-SLEEVE VG-130 A AWG 24	24	0.020	0.027	0.024	0.61
NU-SLEEVE VG-130 A AWG 22	22	0.025	0.032	0.029	0.74
NU-SLEEVE VG-130 A AWG 20	20	0.032	0.039	0.036	0.91
NU-SLEEVE VG-130 A AWG 19	19	0.036	0.044	0.040	1.02
NU-SLEEVE VG-130 A AWG 18	18	0.040	0.049	0.045	1.14
NU-SLEEVE VG-130 A AWG 17	17	0.045	0.054	0.050	1.27
NU-SLEEVE VG-130 A AWG 16	16	0.051	0.061	0.056	1.42
NU-SLEEVE VG-130 A AWG 15	15	0.057	0.067	0.062	1.57
NU-SLEEVE VG-130 A AWG 14	14	0.064	0.074	0.069	1.75
NU-SLEEVE VG-130 A AWG 13	13	0.072	0.082	0.077	1.96
NU-SLEEVE VG-130 A AWG 12	12	0.081	0.091	0.086	2.18
NU-SLEEVE VG-130 A AWG 11	11	0.091	0.101	0.096	2.44
NU-SLEEVE VG-130 A AWG 10	10	0.102	0.112	0.107	2.72
NU-SLEEVE VG-130 A AWG 9	9	0.114	0.124	0.119	3.02
NU-SLEEVE VG-130 A AWG 8	8	0.129	0.141	0.135	3.43
NU-SLEEVE VG-130 A AWG 7	7	0.144	0.158	0.151	3.84
NU-SLEEVE VG-130 A AWG 6	6	0.162	0.178	0.170	4.32
NU-SLEEVE VG-130 A AWG 5	5	0.182	0.198	0.190	4.83
NU-SLEEVE VG-130 A AWG 4	4	0.204	0.224	0.214	5.44
NU-SLEEVE VG-130 A AWG 3	3	0.229	0.249	0.239	6.07
NU-SLEEVE VG-130 A AWG 2	2	0.258	0.278	0.268	6.81
NU-SLEEVE VG-130 A AWG 1	1	0.289	0.311	0.300	7.62
NU-SLEEVE VG-130 A 5/16	5/16"	0.313	0.334	0.324	8.23
NU-SLEEVE VG-130 A AWG 0	0	0.325	0.347	0.336	8.53
NU-SLEEVE VG-130 A 3/8	3/8"	0.375	0.399	0.387	9.83
NU-SLEEVE VG-130 A 7/16	7/16"	0.438	0.462	0.450	11.43
NU-SLEEVE VG-130 A 1/2	1/2"	0.500	0.524	0.512	13.00
NU-SLEEVE VG-130 A 5/8	5/8"	0.625	0.655	0.640	16.26
NU-SLEEVE VG-130 A 3/4	3/4"	0.750	0.786	0.768	19.51
NU-SLEEVE VG-130 A 7/8	7/8"	0.875	0.911	0.893	22.68
NU-SLEEVE VG-130 A 1	1"	1.000	1.036	1.018	25.86
NU-SLEEVE VG-130 A 1 1/8	1 1/8"	1.125	1.161	1.143	29.03
NU-SLEEVE VG-130 A 1 1/4	1 1/4"	1.250	1.286	1.268	32.21
NU-SLEEVE VG-130 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* or *C1*.

Packaging

NU-SLEEVE VG-130 is delivered in spools, bulk spools or in cut lengths.