



Manufacturing the Worlds Finest Electrical Insulating Sleeving Since 1924

Standard Sleeving Sizes

Wire Size (AWD)	Nominal		Inside Diameter				Wall Thickness	
	(in.)	(mm.)	Max (in.)	Min (in.)	Max (mm.)	Min (mm.)	(in.)	(mm.)
No. 24	0.022	0.565	0.027	0.020	0.685	0.508	0.011	0.279
No. 22	0.027	0.69	0.032	0.025	0.812	0.638	0.013	0.330
No. 20	0.034	0.86	0.039	0.032	0.990	0.812	0.013	0.330
No. 19	0.038	0.96	0.044	0.036	1.117	0.914	0.013	0.330
No. 18	0.042	1.07	0.049	0.04	1.244	1.016	0.015	0.381
No. 17	0.047	1.19	0.054	0.045	1.371	1.143	0.015	0.381
No. 16	0.053	1.35	0.061	0.051	1.549	1.295	0.015	0.381
No. 15	0.059	1.50	0.067	0.057	1.701	1.447	0.015	0.381
No. 14	0.066	1.68	0.074	0.064	1.879	1.625	0.015	0.381
No. 13	0.076	1.93	0.082	0.072	2.087	1.828	0.015	0.381
No. 12	0.085	2.16	0.091	0.081	2.311	2.057	0.015	0.381
No. 11	0.095	2.41	0.101	0.091	2.565	2.311	0.018	0.457
No. 10	0.106	2.69	0.112	0.102	2.844	2.59	0.018	0.457
No. 9	0.118	3.10	0.124	0.114	3.149	2.895	0.018	0.457
No. 8	0.133	3.38	0.141	0.129	3.581	3.276	0.018	0.457
No. 7	0.148	3.76	0.158	0.144	4.013	3.657	0.018	0.457
No. 6	0.166	4.22	0.178	0.162	4.521	4.114	0.020	0.508
No. 5	0.186	4.72	0.198	0.182	5.029	4.622	0.020	0.508
No. 4	0.208	5.28	0.224	0.204	5.689	5.181	0.020	0.508
No. 3	0.234	5.94	0.249	0.229	6.324	5.816	0.020	0.508
No. 2	0.263	6.68	0.278	0.258	7.061	6.553	0.020	0.508
No. 1	0.294	7.47	0.311	0.289	7.899	7.340	0.020	0.508
5/16"	0.313	7.95	0.334	0.312	8.483	7.924	0.020	0.508
No. 0	0.330	8.38	0.347	0.325	8.813	8.255	0.025	0.635
3/8"	0.375	9.52	0.399	0.375	10.134	9.525	0.025	0.635
7/16"	0.438	11.12	0.462	0.438	11.734	11.12	0.025	0.635
1/2"	0.500	12.70	0.524	0.500	13.309	12.70	0.025	0.635
5/8"	0.563	14.30	0.655	0.625	16.637	15.87	0.025	0.635
3/4"	0.625	15.87	0.786	0.75	19.964	19.05	0.025	0.635
7/8"	0.750	19.05	0.911	0.875	23.139	22.22	0.025	0.635
1"	1	25.40	1.036	1	26.314	25.00	0.025	0.635
1-1/4"	na	na	1.286	1.25	32.664	31.75	na	na
1-1/2"	na	na	1.536	1.5	39.014	38.10	na	na
1-3/4"	na	na	1.786	1.75	45.364	44.45	na	na
2"	na	na	2.036	2	51.714	50.80	na	na

Grades

Grades of sleeving are identified in terms of minimum average dielectric breakdown voltage as follows:

Nema Grades

A-1 — 7000* volt average,	5000 volt minimum individual
C-1 — 2500 volt average,	2500 volt minimum individual
C-1 — 2500 volt average,	1500 volt minimum individual
C-2 — 1500 volt average,	800 volt minimum individual
C-3 — No dielectric guarantee	

*For sleeving Types 3, 4, and 5, values are 8000 volt average, 6000 volt minimum individual. For more information, refer to NEMA Standards for Coated Electric Sleeving. Also, ASTM D372.

Types of Sleeving

Definitions

Coated sleeving is a flexible, tubular product braided from fiberglass, nylon or other fibers, which is impregnated, coated, or impregnated and coated with an electrical insulating material.

Types & Classes

Coated sleeving is categorized by the type of coating, base fabric material, dielectric breakdown voltage, temperature index, and inside diameter as follows:

Type 2

A flexible treated sleeving made from inorganic-base yarns such as fibrous glass and impregnated or coated with an insulating material which can be shown by applicable experience or accepted test to have a temperature index of 130 (continuous use at 130°C).

Type 3

A flexible treated sleeving made from inorganic-base yarns such as fibrous glass and impregnated or coated with an insulating material, such as polyvinyl chloride, which can be shown by applicable experience or accepted test to have a temperature index of 105 (continuous use at 105°C).

Type 4

A flexible treated sleeving made from inorganic-base yarns such as fibrous glass and impregnated or coated with an insulating material, such as silicone resin or polytetrafluoroethylene, which can be shown by applicable experience or accepted test to have a temperature index of 200 (continuous use at 200°C).

Type 5

A flexible treated sleeving made from inorganic-base yarns such as fibrous glass and impregnated or coated with an insulating material, such as silicone elastomer, which can be shown by experience or accepted test to have a temperature index of 200 (continuous use at 200°C).

Type 6

A flexible treated sleeving made from inorganic-base yarns such as fibrous glass and impregnated or coated with an insulating material, such as epoxies, polyesters, or acrylics, which can be shown by experience or accepted test to have a temperature index of 155 (continuous use at 155°C).

Varglas ES4400 Silicone Rubber – 220C class

Varglas 240 Silicone Rubber – 240C class



Varflex Corporation