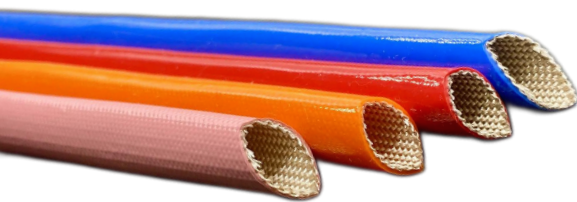




Varflex Corporation is a global leader in manufacturing superior quality electrical insulating sleeveings since 1924.

**ISO 9001:2015 Certified**  
Many of our sleeveings are UL recognized, CSA certified and meet military specifications. All materials are RoHS, REACH and Conflict Minerals certified.

Our sleeveings are designed for applications where abrasion, high temperatures, high voltage (dielectrics), resistance to chemicals, solvents and thermal endurance are required. We have produced products for worldwide brands that manufacture motors, generators, airplanes, motorcycles, military equipment, hospital equipment and many more!



### Products Offered:

- Coated & Uncoated Sleeveing
- Overbraiding Capabilities, Twisted & Plied Yarn Packages, Wound Packages
- Coating Capabilities: Fluorescent Acrylics, Viton Coating
- Tying & Lacing Cords, Insulator Tape, Stapling Capabilities
- Expandable Polyester Monofilament Sleeveing

### Custom Product Capabilities:

Varflex specialty products are available in a variety of sizes and colors, packaged on spools, coils or cut lengths. Samples available upon request. We are available to overbraid onto your products, adding an extra layer of insulation.

- Double Wall (one braided tube over another)
- Triple Wall (two braided tubes over another)



Our Twisted & Plied facility has the capability to twist single or multiple strands of fiberglass yarns and other synthetic fibers such as Kevlar, Basalt, Spectra and Nomex.



Varflex does its own twisting, plying, yarn winding and braiding in addition to our coated and uncoated sleeveings. Our expertise is available to customers who wish to supplement their own yarns through the purchase of Twisted & Plied Yarns, Braider Packages and Uncoated Fiberglass Braids.

**Email our sales team, [sales@varflex.com](mailto:sales@varflex.com) to find the right sleeveing for your application!**

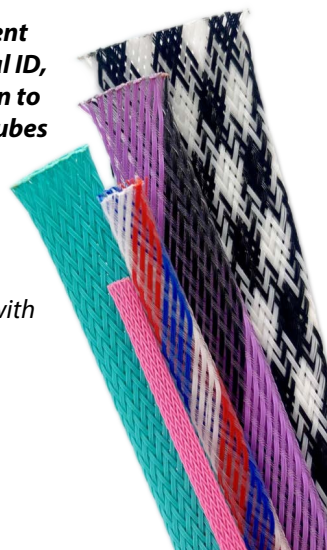
**Varflex expandable polyester monofilament sleeveing expands 2 to 3 times their original ID, designed to provide mechanical protection to wires, cables, harnesses, hydraulic lines, tubes and hoses as well as components of both regular and irregular shapes.**

Varflex Corporation is ready to supply you with our highest quality sleeveings!

SCAN FOR MORE INFORMATION



We take great pride in saying "our products are proudly made in America."

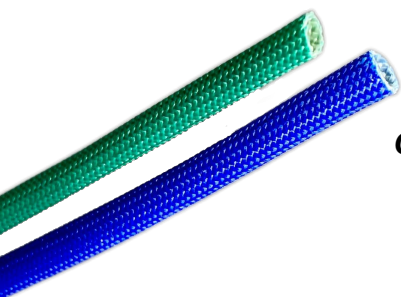


## Standard Sizes

Wire Size (AWG)	Inside Diameter					Wall Thickness (minimum)		
	Maximum (in.)	Nominal (in.)	Minimum (in.)	MM Size to .5mm	MM - Dec. Equivalent	Grade A (in.)	Grade B (in.)	Grade C (in.)
No. 24	0.027	0.022	0.020	0.5	0.01969	0.011	0.007	0.006
No. 22	0.032	0.027	0.025			0.013	0.007	0.006
No. 20	0.039	0.034	0.032			0.013	0.007	0.006
No. 19	0.044	0.038	0.036	1	0.03937	0.013	0.007	0.006
No. 18	0.049	0.042	0.040			0.015	0.007	0.006
No. 17	0.055	0.047	0.045			0.015	0.007	0.006
No. 16	0.061	0.053	0.051			0.015	0.007	0.006
No. 15	0.066	0.059	0.057	1.5	0.05906	0.015	0.007	0.006
No. 14	0.072	0.066	0.064			0.015	0.007	0.006
No. 13	0.080	0.076	0.072	2	0.07874	0.015	0.007	0.006
No. 12	0.089	0.085	0.081			0.015	0.007	0.006
No. 11	0.101	0.095	0.091	2.5	0.09842	0.018	0.009	0.008
No. 10	0.112	0.106	0.102			0.018	0.009	0.008
No. 9	0.124	0.118	0.114	3	0.11811	0.018	0.009	0.008
No. 8	0.141	0.133	0.129	3.5	0.1378	0.018	0.009	0.008
No. 7	0.158	0.148	0.144	4	0.15748	0.018	0.009	0.008
No. 6	0.178	0.166	0.162	4.5	0.17716	0.020	0.011	0.01
No. 5	0.198	0.186	0.182	5	0.19685	0.020	0.011	0.01
No. 4	0.224	0.208	0.204	5.5	0.21654	0.020	0.011	0.01
No. 3	0.249	0.234	0.229	6	0.23622	0.020	0.011	0.01
No. 2	0.278	0.263	0.258	7	0.27559	0.020	0.011	0.01
No. 1	0.311	0.294	0.289	7.5	0.29528	0.020	0.011	0.01
5/16"	0.334	0.313	0.313	8	0.31496	0.020	0.011	0.01
No. 0	0.347	0.330	0.325	8.5	0.33464	0.025	0.011	0.016
3/8"	0.399	0.375	0.375	10	0.3937	0.025	0.017	0.016
7/16"	0.462	0.438	0.438	11.5	0.45276	0.025	0.017	0.016
1/2"	0.524	0.500	0.500	13	0.51181	0.025	0.017	0.016
5/8"	0.655	0.625	0.625	16.5	0.6496	0.025	0.017	0.016
3/4"	0.786	0.750	0.750	19.5	0.76772	0.025	0.017	0.016
7/8"	0.911	0.875	0.875	22.5	0.88582	0.025	0.017	0.016
1"	1.036	1.000	1.000	25.5	1.0047	0.025	0.017	0.016

Sizes 26, 28-30 and over 1" upon request

Please inquire regarding military specifications.



**Quality products you can rely on,  
 Lifelong service you can trust!**

## 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 at 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*

### 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**
- B-1 4000 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.



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