

- UL Recognized: VW-1
- For High Temp - Low Voltage Applications
- Easy To Install-Cuts With Scissors
- Resists Most Organic Solvents
- Cut And Abrasion Resistant



**Cut Cleanly
Scissors**

Material

Acrylic Coated Fiberglass

Grade

FGL

Wall Thickness

Refer to Chart

Drawing Number

TF001INS-WD

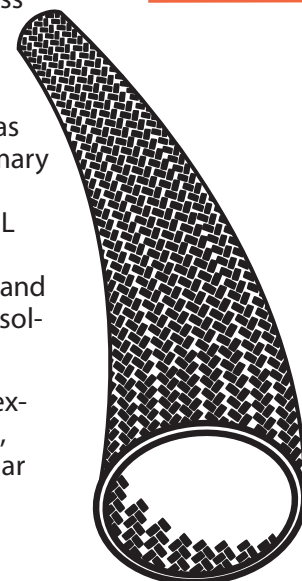
Nominal Size	Diameter	Part #	Wall Thickness ±0.005"	Expansion Range		Bulk Spool	Shop Spool	Available Colors
				Min.	Max.			
24	0.022"	FGLG.24	0.005"	0.020"	0.027"	500'	250'	6
22	0.027"	FGLG.22	0.005"	0.025"	0.032"	500'	250'	6
20	0.034"	FGLG.20	0.009"	0.032"	0.039"	500'	250'	6
18	0.042"	FGLG.18	0.011"	0.040"	0.049"	500'	250'	6
16	0.053"	FGLG.16	0.011"	0.051"	0.061"	500'	250'	6
14	0.066"	FGLG.14	0.011"	0.064"	0.072"	500'	250'	6
12	0.085"	FGLG.12	0.011"	0.081"	0.089"	250'	100'	6
11	0.095"	FGLG.11	0.011"	0.091"	0.101"	250'	100'	6
10	0.106"	FGLG.10	0.011"	0.102"	0.112"	250'	100'	6
9	0.118"	FGLG.09	0.011"	0.114"	0.124"	250'	100'	6
8	0.133"	FGLG.08	0.011"	0.129"	0.141"	250'	100'	6
7	0.148"	FGLG.07	0.013"	0.144"	0.158"	250'	100'	6
6	0.166"	FGLG.06	0.013"	0.162"	0.178"	250'	100'	6
5	0.186"	FGLG.05	0.013"	0.182"	0.198"	250'	100'	6
4	0.208"	FGLG.04	0.016"	0.204"	0.224"	250'	100'	6
3	0.234"	FGLG.03	0.016"	0.229"	0.249"	250'	100'	6
2	0.263"	FGLG.02	0.016"	0.258"	0.278"	250'	100'	6
1	0.294"	FGLG.01	0.016"	0.289"	0.311"	100'	50'	6
0	0.330"	FGLG.00	0.016"	0.325"	0.347"	100'	50'	6
3/8"	0.375"	FGL0.38	0.016"	0.375"	0.399"	100'	50'	6
7/16"	0.438"	FGL0.44	0.018"	0.438"	0.462"	100'	50'	6
1/2"	0.500"	FGL0.50	0.018"	0.500"	0.524"	100'	50'	6
5/8"	0.625"	FGL0.63	0.018"	0.625"	0.655"	100'	50'	6
3/4"	0.750"	FGL0.75	0.018"	0.750"	0.786"	100'	50'	6
1"	1.000"	FGL1.00	0.018"	1.000"	1.040"	100'	50'	6

Heat Treated, Fray-Resistant Fiberglass Sleeving

Techflex INSULTHERM TRU-FIT (FGL) is a braided fiberglass sleeving which has been heat treated and impregnated with an acrylic binder to reduce fraying and dusting, and improve usability and performance. FGL is engineered for applications where temperatures as high as 1,200°F may be encountered. FGL is used as primary insulation on low voltage applications such as leads in toasters, coffee makers, ranges and other appliances. FGL may also be used as insulation and protection for small heaters and resistors that operate at high temperatures, and to insulate over soldered connections when exposure to solder melt temperatures is possible.

Insultherm Tru-Fit provides a sturdy, long lasting and inexpensive insulation solution. It is flexible and expandable, and can easily be installed over applications with irregular shapes and tight turns. Standard color are Black and Natural, but other colors are available by special order. Contact your Account representative for details.

Colors Available:
6 = WH, NT, YL
RD, BL, BK



Colors Available:



White (WH), Natural (NT), Yellow (YL), Red (RD), Blue (BL), Black (BK).



TECHFLEX
Braided Sleeving Products

www.techflex.com

800.323.5140 • 973.300.9242 • fax: 973.300.9409
104 Demarest Road • Sparta, NJ 07871

VW-1



ABRASION FLAMMABILITY

Abrasion Resistance
Very High

Rating _____ UL VW-1

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
75°F

Humidity
15%

Slight Fraying
200 Test Cycles

Slight Fraying
1,000 Test Cycles

Fraying
1,700 Test Cycles

Material Destroyed
2,300 Test Cycles

Pre-Test Weight
15.3 g

Post-Test Weight
13.6 g

Test End Loss Of Mass
Point Of Destruction
11%

CHEMICAL RESISTANCE

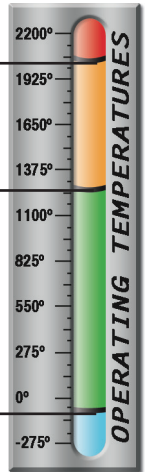
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

Aromatic Solvents _____	1
Aliphatic Solvents _____	1
Chlorinated Solvents _____	1
Weak Bases _____	1
Salts _____	1
Strong Bases _____	1
Salt Water 0-S-1926 _____	1
Hydraulic Fluid MIL-H-5606 _____	1
Lube Oil MIL-L-7808 _____	1
De-Icing Fluid MIL-A-8243 _____	1
Strong Acids _____	2
Strong Oxidants _____	2
Esters/Ketones _____	1
UV Light _____	2
Petroleum _____	1
Fungus ASTM G-21 _____	1
Halogen Free _____	Yes
RoHS _____	Yes
SVHC _____	None

Melt Point
ASTM D-2117
2,048°F (1,120°C)

Maximum Continuous
MIL-I-23053
1,202°F (650°C)

Minimum Continuous
-94°F (-70°C)



PHYSICAL PROPERTIES

Monofilament Diameter _____ NA
ASTM D-204

Flammability Rating _____ VW-1

Recommended Cutting _____ Scissor

Colors _____ 6

Wall Thickness _____ .005-.018

Specific Gravity *ASTM D-792* _____ 1.0-1.8

Moisture Absorption _____ .01
% *ASTM D-570*

TML _____ .02

CVCM _____ .01

WVR _____ .00

Outgassing _____ Low