

- 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

**Put-Ups**

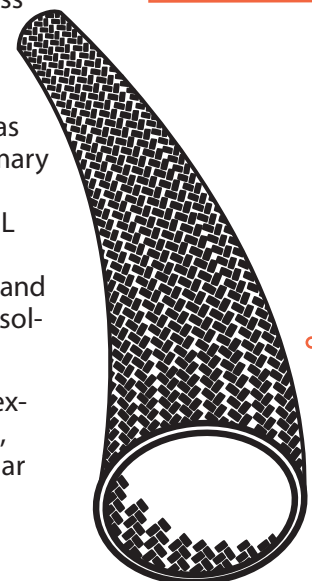
Nominal Size	Diameter	Part #	Wall Thickness ±0.005"	Expansion Range		Bulk Spool	Shop Spool	Available Colors
				Min.	Max.			
24	0.022"	FGLG.24	0.005"	0.020"	0.027"	500'	250'	6
22	0.027"	FGLG.22	0.005"	0.025"	0.032"	500'	250'	6
20	0.034"	FGLG.20	0.009"	0.032"	0.039"	500'	250'	6
18	0.042"	FGLG.18	0.011"	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.

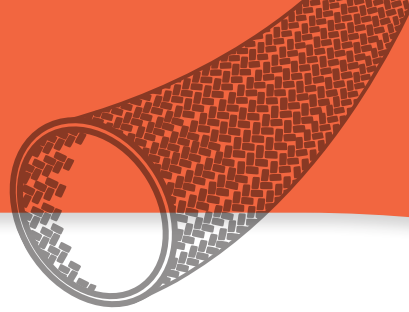
**Colors Available:**  
6 = WH, NT, YL  
RD, BL, BK



Colors Available:



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



## **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**

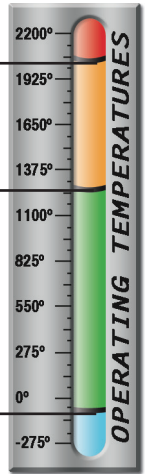
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

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

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