

- UL Recognized: VW-1
- Rated To 240°C
- 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

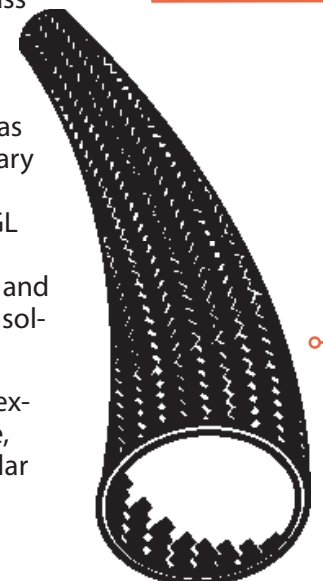
Nominal Size	Diameter	Part #	Wall Thickness ±0,13mm	Expansion Range		Bulk Spool	Shop Spool	Available Colors
				Min.	Max.			
24	0,6mm	FGLG.24	0,13mm	0,5mm	0,7mm	152,4m	76,2m	6
22	0,7mm	FGLG.22	0,13mm	0,6mm	0,8mm	152,4m	76,2m	6
20	0,9mm	FGLG.20	0,23mm	0,8mm	1,0mm	152,4m	76,2m	6
18	1,1mm	FGLG.18	0,28mm	1,0mm	1,2mm	152,4m	76,2m	6
16	1,3mm	FGLG.16	0,28mm	1,3mm	1,5mm	152,4m	76,2m	6
14	1,7mm	FGLG.14	0,28mm	1,6mm	1,8mm	152,4m	76,2m	6
12	2,2mm	FGLG.12	0,28mm	2,1mm	2,3mm	76,2m	30,5m	6
11	2,4mm	FGLG.11	0,28mm	2,3mm	2,6mm	76,2m	30,5m	6
10	2,7mm	FGLG.10	0,28mm	2,6mm	2,8mm	76,2m	30,5m	6
9	3,0mm	FGLG.09	0,28mm	2,9mm	3,1mm	76,2m	30,5m	6
8	3,4mm	FGLG.08	0,28mm	3,3mm	3,6mm	76,2m	30,5m	6
7	3,8mm	FGLG.07	0,33mm	3,7mm	4,0mm	76,2m	30,5m	6
6	4,2mm	FGLG.06	0,33mm	4,1mm	4,5mm	76,2m	30,5m	6
5	4,7mm	FGLG.05	0,33mm	4,6mm	5,0mm	76,2m	30,5m	6
4	5,3mm	FGLG.04	0,41mm	5,2mm	5,7mm	76,2m	30,5m	6
3	5,9mm	FGLG.03	0,41mm	5,8mm	6,3mm	76,2m	30,5m	6
2	6,7mm	FGLG.02	0,41mm	6,6mm	7,1mm	76,2m	30,5m	6
1	7,5mm	FGLG.01	0,41mm	7,3mm	7,9mm	30,5m	15,2m	6
0	8,4mm	FGLG.00	0,41mm	8,3mm	8,8mm	30,5m	15,2m	6
9,5mm	9,5mm	FGL0.38	0,41mm	9,5mm	10,1mm	30,5m	15,2m	6
11,1mm	11,1mm	FGL0.44	0,46mm	11,1mm	11,7mm	30,5m	15,2m	6
12,7mm	12,7mm	FGL0.50	0,46mm	12,7mm	13,3mm	30,5m	15,2m	6
15,9mm	15,9mm	FGL0.63	0,46mm	15,9mm	16,6mm	30,5m	15,2m	6
19,1mm	19,1mm	FGL0.75	0,46mm	19,1mm	20,0mm	30,5m	15,2m	6
25,4mm	25,4mm	FGL1.00	0,46mm	25,4mm	26,4mm	30,5m	15,2m	6

### Heat Treated, Fray-Resistant Fiberglass Sleeving

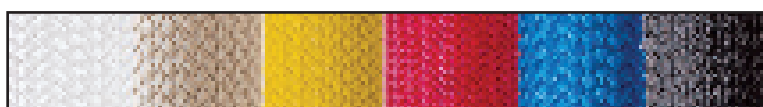
Techflex INSULTHERM TRU-FIT (FGL) is a braided fiberglass sleeving which has been heat treated and impregnated with an acrylic binder to reduce fraying and dusting, and improve usability and performance. FGL is engineered for applications where temperatures as high as 649°C may be encountered. FGL is 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/24°C

**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

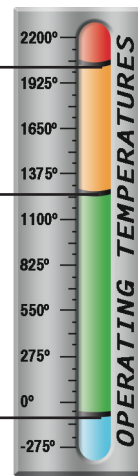
1=No Effect    4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

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 _____	0,13-0,46mm
Specific Gravity ASTM D-792 _____	1,0-1,8
Moisture Absorption _____	0,01
% ASTM D-570	
TML _____	0,02
CVCM _____	0,01
WVR _____	0,00
Outgassing _____	Low