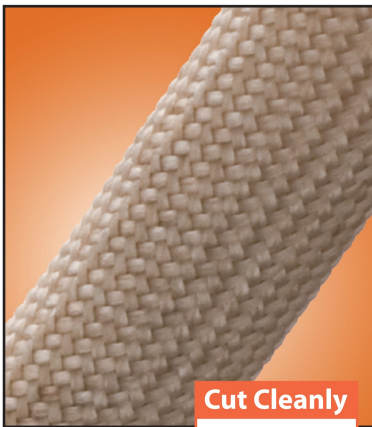


- UL Recognized: VW-1
- For High Temp - Low Voltage Applications
- Easy To Install-Cuts With Scissors
- Resists Most Organic Solvents
- Cut And Abrasion Resistant



Cut Cleanly  
Scissors

**Material**  
Acrylic Coated Fiberglass

**Grade**  
FGL

**Wall Thickness**  
Refer to Chart

**Drawing Number**  
TF001INS-WD

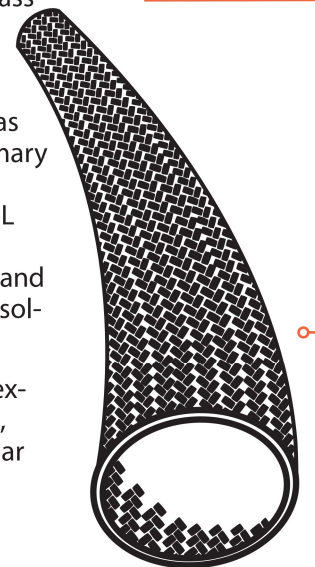
| Nominal Size | Diameter | Part #  | Wall Thickness<br>± 0.005" | Expansion Range |        | Bulk Spool | Shop Spool | Available Colors |
|--------------|----------|---------|----------------------------|-----------------|--------|------------|------------|------------------|
|              |          |         |                            | 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



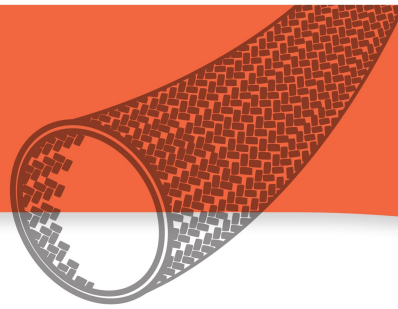
800.323.5140 • 973.300.9242 • fax: 973.300.9409  
104 Demarest Road • Sparta, NJ 07871

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**

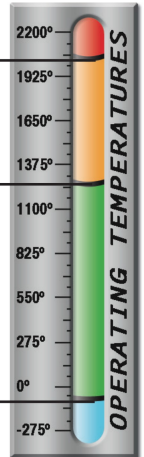
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

|                                  |      |
|----------------------------------|------|
| 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         |