



- **UL Recognized**
- **Continuous Filament E-Type Glass**
- **Resists Abrasion, Vibration, And Mechanical Stress**
- **Easy To Install - Cuts With Scissors**
- **Stays Flexible In Low Temps**



**Cut Cleanly
Scissors**

Material
Fiberglass

Grade
FHN

Wall Thickness
Refer to Chart

Nominal Size	Diameter	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors
				Min.	Max.	Bulk Spool	Shop Spool	
24	0,6mm	FHNG.24NT	0,1mm	0,5mm	0,7mm	152,4m	76,2m	Natural (NT)
22	0,7mm	FHNG.22NT	0,1mm	0,6mm	0,8mm	152,4m	76,2m	Natural (NT)
20	0,9mm	FHNG.20NT	0,2mm	0,8mm	1,0mm	152,4m	76,2m	Natural (NT)
18	1,1mm	FHNG.18NT	0,3mm	1,0mm	1,2mm	152,4m	76,2m	Natural (NT)
17	1,2mm	FHNG.17NT	0,3mm	1,1mm	1,4mm	152,4m	76,2m	Natural (NT)
16	1,3mm	FHNG.16NT	0,3mm	1,3mm	1,5mm	152,4m	76,2m	Natural (NT)
14	1,7mm	FHNG.14NT	0,3mm	1,6mm	1,9mm	152,4m	76,2m	Natural (NT)
13	1,9mm	FHNG.13NT	0,3mm	1,8mm	2,1mm	152,4m	76,2m	Natural (NT)
12	2,2mm	FHNG.12NT	0,3mm	2,1mm	2,3mm	76,2m	30,5m	Natural (NT)
11	2,4mm	FHNG.11NT	0,3mm	2,3mm	2,6mm	76,2m	30,5m	Natural (NT)
10	2,7mm	FHNG.10NT	0,3mm	2,6mm	2,8mm	76,2m	30,5m	Natural (NT)
9	3,0mm	FHNG.09NT	0,3mm	2,9mm	3,1mm	76,2m	30,5m	Natural (NT)
8	3,4mm	FHNG.08NT	0,3mm	3,3mm	3,6mm	76,2m	30,5m	Natural (NT)
7	3,8mm	FHNG.07NT	0,3mm	3,7mm	4,0mm	76,2m	30,5m	Natural (NT)
6	4,2mm	FHNG.06NT	0,3mm	3,9mm	4,5mm	76,2m	30,5m	Natural (NT)
5	4,7mm	FHNG.05NT	0,3mm	4,6mm	5,0mm	76,2m	30,5m	Natural (NT)
4	5,3mm	FHNG.04NT	0,4mm	5,2mm	5,7mm	76,2m	30,5m	Natural (NT)
3	5,9mm	FHNG.03NT	0,4mm	5,8mm	6,3mm	76,2m	30,5m	Natural (NT)
2	6,7mm	FHNG.02NT	0,4mm	6,6mm	7,1mm	76,2m	30,5m	Natural (NT)
1	7,5mm	FHNG.01NT	0,4mm	7,3mm	7,9mm	30,5m	15,2m	Natural (NT)
0	8,4mm	FHNG.00NT	0,4mm	8,3mm	8,8mm	30,5m	15,2m	Natural (NT)
6,4mm	6,4mm	FHN0.25NT	0,3mm	6,4mm	7,9mm	30,5m	15,2m	Natural (NT)
7,9mm	7,9mm	FHN0.31NT	0,4mm	7,9mm	8,4mm	30,5m	15,2m	Natural (NT)
9,5mm	9,5mm	FHN0.38NT	0,3mm	9,5mm	12,7mm	30,5m	15,2m	Natural (NT)
11,1mm	11,1mm	FHN0.44NT	0,5mm	11,1mm	11,7mm	30,5m	15,2m	Natural (NT)
12,7mm	12,7mm	FHN0.50NT	0,3mm	12,7mm	15,9mm	30,5m	15,2m	Natural (NT)
15,9mm	15,9mm	FHN0.63NT	0,6mm	15,9mm	19,1mm	30,5m	15,2m	Natural (NT)
19,1mm	19,1mm	FHN0.75NT	0,6mm	19,1mm	22,2mm	30,5m	15,2m	Natural (NT)
25,4mm	25,4mm	FHN1.00NT	0,6mm	25,4mm	31,8mm	30,5m	15,2m	Natural (NT)

Braided Fiberglass Protects up to 650°C

INSULTHERM ULTRAFLEX fiberglass sleeving is ideal for the protection of wires and hoses exposed to the heat generated from high performance engine and exhaust components.

The heat treated sleeving cuts with scissors and is compatible with most bonding and saturation systems.

Ultraflex expands slightly, allowing it to slide easily over wires and follow curves and contours without binding.

"...will withstand extreme heat... provides the protection needed"



ABRASION FLAMMABILITY

Abrasion Resistance
Medium

Rating _____ VW-1

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
78°F/26°C

Humidity
72%

Material Destroyed
1 000 Test Cycles

Pre-Test Weight
3 374,0 mg

Post-Test Weight
2 839,3 mg

Test End Loss Of Mass
Point Of Destruction
534,7 mg

CHEMICAL RESISTANCE

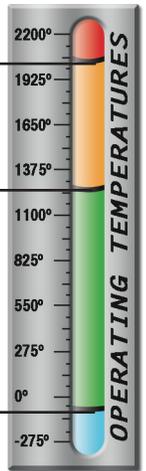
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

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 _____	1
Wall Thickness _____	0,1-0,6mm
Tensile Strength (Yarn) _____	
ASTM D-2256 Lbs	
Specific Gravity ASTM D-792 ____	1,0-1,8
Moisture Absorption _____	0,01
% ASTM D-570	
Hard Vacuum Data _____	
ASTM E-595 at 10-5 torr	
TML _____	0,01
CVCM _____	0,00
WVR _____	0,00
Smoke D-Max _____	
ASTM E-662	
Outgassing _____	Low
Oxygen Index _____	
ASTM D-2863	