F6® WOVEN WRAP FR

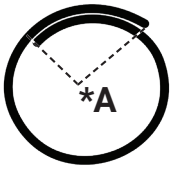
PASSES SMOKE DENSITY, SURFACE FLAMMABILITY, & SMOKE TOXICITY TESTS COMPLIES TO HL2 ACCORDING TO THE RAILWAY STANDARD DIN EN 45545-2

F6® Woven Wrap FR (F6V) is a VW-1 Rated version our industry recognized F6® Woven Wrap, with the added advantage of a flame inhibitor to provide an extra level of safety. It utilizes many of the same characteristics as our original F6® split braided sleeving including the easy wrap around design and the extra overlap to ensure complete protection of important electronic communication and power systems. The new woven construction provides superior elastic flexibility with unbeatable coverage over any harness assembly. Through a unique process, the blend of monofilament and multifilament polyester fibers are formed into a sleeving with memory that causes the sleeve to self close, and also snap back when opened. The combination of flame retardance, ease of installation, and complete coverage makes F6® Woven FR an ideal solution for many commercial and aerospace applications.

SIZING CHART

Nominal Size	Part #	Wall Thickness	Overlap *A	*Put-Ups		Available Colors	Lbs/ 100’
				M	L		
3⁄16”	F6V0.19TB	.027”	51%	100’	500’	1	0.80
3⁄8”	F6V0.38TB	.027”	41%	100’	250’	1	1.20
½”	F6V0.50TB	.027”	35%	75’	200’	1	1.60
¾”	F6V0.75TB	.027”	28%	50’	150’	1	2.50
1”	F6V1.00TB	.027”	26%	50’	100’	1	3.20
1¼”	F6V1.25TB	.027”	25%	25’	75’	1	3.70
1½”	F6V1.50TB	.027”	23%	25’	50’	1	4.80

Put-Ups: **“M” = Shop Spool and **“L”** = Bulk Spool*

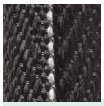


The Right Overlap For Your Harness

FEATURES

Material	**PET Polyethylene Terephthalate**
Grade	**F6V**
Filament Diameter	**.010” Monofilament Polyester 1200 Denier Multifilament**
Drawing Number	**TF001F6V-WD**
Cutting	**Hot Knife**

COLORS



Black w/White Tracer (TB)

CERTIFICATIONS

ABYC · UL · CSA · RoHS Compliant · **DIN EN 45545-2** · **VW-1**

TECHFLEX® Braided Sleeving Products

ADVANCED ENGINEERING
Technical Data Sheet

ABRASION

Abrasion Resistance	**MEDIUM**
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	°F
Humidity	%
Very Minor Scuffing	Test Cycles
Scuffing & Several Broken Strands	Test Cycles
Material Destroyed	Test Cycles
Pre-Test Weight	mg
Post-Test Weight	mg
Test End Loss Of Mass Point Of Destruction	mg

PHYSICAL PROPERTIES

Filament Diameter - Monofilament Polyester - Multifilament	.010” 1200 Dennier
Flammability Rating *(Self Extinguishing, Type A)*	VW-1
Recommended Cutting	Hot Knife
Colors	1
Wall Thickness	.027”
Tensile Strength (Yarn) *(ASTM D-2256 Lbs)*	
Specific Gravity *(ASTM D-792)*	
Moisture Absorption % *(ASTM D-570)*	
Hard Vacuum Data *(ASTM E-595 at 10-5 torr)*	
TML	.19
CVCM	.00
WVR	.06
Smoke Density *(ASTM E-662)*	Pass
Smoke Toxicity *(SMP 800-C)*	Pass
Surface Flammability *(ASTM E-162)*	Pass
Outgassing	Medium
Oxygen Index *(ASTM D-2863)*	31

FLAMMABILITY

Rating	UL VW-1

OPERATING TEMPERATURES

Melt Point *(ASTM D-2117)*	482°F / 250°C
Maximum Continuous	257°F / 125°C
Minimum Continuous	-94°F / -70°C

CHEMICAL RESISTANCE

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

Aromatic Solvents	2
Aliphatic Solvents	1
Chlorinated Solvents	3
Weak Bases	1
Salts	1
Strong Bases	2
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	3
Strong Oxidants	2
Esters/Ketones	2
UV Light	1
Petroleum	1
Fungus *(ASTM G-21)*	1
Halogen Free	Yes
RoHS	Yes
SVHC	None

www.TECHFLEX.com
104 Demarest Road • Sparta, NJ 07871 • 1 (833) SLEEVING • (973) 300-9242 • fax: (973) 300-9409

08-01-23