



- DIN EN 45545-2 Certified
- Economical And Easy To Install
- Expands Up To 150%
- Resists Gasoline And Engine Chemicals
- Cut And Abrasion Resistant
- Mil-202, FAR-25, FMVSS 302, VW-1, FR-1 Approved
- Halogen Free



Cut Cleanly
Hot Knife

Material
Polyethylene Terephthalate

Grade
FRN

Monofilament Diameter
.010"

Drawing Number
TF001FR-WD

Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100'
		Min	Max				
1/8"	FRN0.13	3/32"	1/4"	1,000'	225'	7	0.16
1/4"	FRN0.25	1/8"	7/16"	1,000'	200'	7	0.24
5/16"	FRN0.31	5/32"	15/32"	500'	150'	7	0.50
3/8"	FRN0.38	3/16"	1/2"	500'	125'	7	0.57
7/16"	FRN0.44	7/32"	5/8"	500'	125'	7	0.68
1/2"	FRN0.50	1/4"	3/4"	500'	100'	7	0.72
9/16"	FRN0.56	5/16"	7/8"	500'	100'	7	0.81
3/4"	FRN0.75	1/2"	1 1/4"	250'	75'	7	1.07
1"	FRN1.00	5/8"	1 5/8"	250'	65'	7	1.34
1 1/4"	FRN1.25	3/4"	1 3/4"	250'	50'	7	1.60
1 1/2"	FRN1.50	1"	2 1/2"	200'	40'	7	1.96
1 3/4"	FRN1.75	1 1/4"	2 3/4"	200'	30'	7	2.70
2"	FRN2.00	1 1/2"	3 1/2"	200'	50'	7	3.30
2 1/2"	FRN2.50	1 3/4"	4 1/2"	200'	50'	7	3.80
3"	FRN3.00	2 1/2"	4 3/4"	100'	50'	7	4.00
3 End Construction							
1/4"	FR30.25TB	1/8"	3/8"	1,000'	200'	TB, GW, TW	0.39

Put-Ups

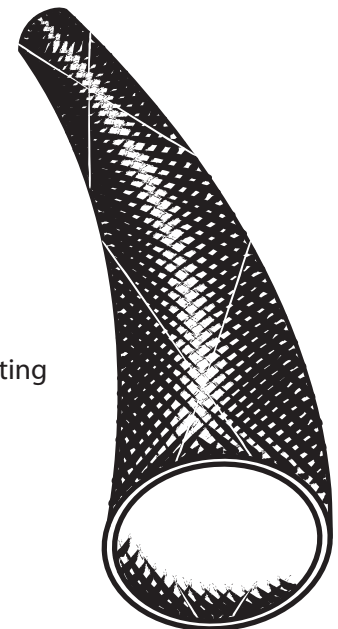
Flame Retardant, Economical Sleeving Solution

Flexo PET Flame Retardant (FR) sleeving is the perfect choice for electronic and high tech applications where flame retardance and durability are primary concerns. Ease of installation makes FR an efficient choice for long runs of wire or cable.

The addition of an organic combustion inhibitor to our standard polyethylene terephthalate gives FR an Underwriters Lab and CSA flame resistance rating of VW-1.

FR meets or exceeds automotive and aircraft engineering standards for flammability and flame retardance.

Colors Available:
BK,TW,GW,TB,YS,OS,SP



Colors Available:



Black (BK), White with Black Tracer (TW), Gray with White Tracer(GW), Black with White Tracer (TB), Black with Yellow Tracer (YS), Black with Orange Tracer (OS), Black with Red Tracer (SP).



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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
80°F

Humidity
70%

Minor Scuffing Is Visible
100 Test Cycles

Several Broken Strands
And Small Hole
Developing
500 Test Cycles

Material Destroyed
700 Test Cycles

Pre-Test Weight
4124.0 mg

Post-Test Weight
3884.7 mg

Test End Loss Of Mass
Point Of Destruction
239.3 mg

CHEMICAL RESISTANCE

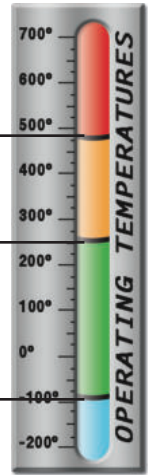
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

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

Melt Point
ASTM D-2117
482°F (250°C)

Maximum Continuous
Mil-I-23053
257°F (125°C)

Minimum Continuous
-94°F (-70°C)



PHYSICAL PROPERTIES

Monofilament Diameter _____	.010
ASTM D-204	
Flammability Rating _____	VW-1
FMVSS-302 Approved	
Recommended Cutting _____	Hot Knife
Colors _____	7
Wall Thickness _____	.025
Tensile Strength (Yarn) _____	5
ASTM D-2256 Lbs	
Specific Gravity ASTM D-792 _____	1.38
Moisture Absorption% _____	.1-.2
ASTM D-570	
Hard Vacuum Data _____	
ASTM E-595 at 10-5 torr	
TML _____	.19
CVCM _____	.04
WVR _____	.06
Smoke D-Max _____	275
ASTM E-662	
Outgassing _____	Med
Oxygen Index _____	31
ASTM D-2863	

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