



FLEXO® PET

A VERSATILE BUNDLING AND PROTECTION SOLUTION · EXPANDS UP TO 150% FMVSS 302 APPROVAL

The FLEXO® Original braided from 10 mil polyethylene terephthalate (PET) monofilament yarns. The material has a wide operating temperature range, is resistant to chemical degradation, UV radiation, and abrasion. Used in electronics, automotive, marine and industria wire harnessing applications where cost efficiency and durability are critical. The unique braided construction and wide expandability allows quick and easy installation over large connectors and long runs.

SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Kgs/100m
				M	L		
1,6mm	PTN0.06	1,2mm	2,4mm	76,2m	304,8m		0,33
3,2mm	PTN0.13	2,4mm	6,4mm	68,6m	304,8m		0,30
6,4mm	PTN0.25	3,2mm	11,1mm	61,0m	304,8m		0,45
7,9mm	PTN0.31	3,9mm	11,9mm	45,7m	152,4m		0,74
9,5mm	PTN0.38	4,8mm	12,7mm	38,1m	152,4m		0,85
11,1mm	PTN0.44	5,5mm	15,8mm	38,1m	152,4m		1,01
12,7mm	PTN0.50	6,4mm	19,1mm	30,5m	152,4m		1,15
14,2mm	PTN0.56	7,9mm	22,2mm	30,5m	152,4m	more	1,20
15,9mm	PTN0.63	9,5mm	25,4mm	30,5m	152,4m	than	1,41
19,1mm	PTN0.75	12,7mm	31,8mm	22,9m	76,2m	40	1,79
25,4mm	PTN1.00	15,9mm	41,3mm	19,8m	76,2m		2,00
31,8mm	PTN1.25	19,1mm	44,5mm	15,2m	76,2m		2,38
38,1mm	PTN1.50	25,4mm	54,0mm	12,2m	61,0m		2,92
44,5mm	PTN1.75	31,8mm	69,9mm	9,1m	61,0m		3,65
50,8mm	PTN2.00	38,1mm	88,9mm	15,2m	61,0m		3,87
63,5mm	PTN2.50	44,5mm	92,1mm	15,2m	61,0m		5,66
76,2mm	PTN3.00	63,5mm	120,7mm	15,2m	30,5m		5,66
3 END CONSTRUCTION							
6,4mm	PT30.25	3,2mm	9,5mm	61,0m	304,8m	4	0,58
9 MIL CONSTRUCTION							
101,6mm	PT94.00BK	101,6mm	165,1mm	15,2m	30,5m	BK	5,66
PET LEAN							
19,1mm	PTL0.75BK	12,7mm	31,8mm	22,9m	76,2m	BK	1,55
31,8mm	PTL1.25BK	19,1mm	44,5mm	15,2m	76,2m	BK	1,77

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





FEATURES

Material	Polyethylene Terephthalate
Grade	PTN
Monofilament Diameter	0,25mm
Drawing Number	TF001PET-WD
Cutting	Hot Knife

ABRASION

Abrasion Resistance	HIGH
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	77°F / 25°C
Humidity	72%
Two Broken Filaments	300 Test Cycles
Approx 6 Broken Filaments	500 Test Cycles
Material Destroyed	1 150 Test Cycles
Pre-Test Weight	4 547,4 mg
Post-Test Weight	4 133,9 mg
Test End Loss Of Mass Point Of Destruction	413,5 mg

PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	0,25mm
Flammability Rating	UL94
Recommended Cutting	Hot KnifeK
Colors	40+
Wall Thickness	0,64mm
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	7,5
Specific Gravity (ASTM D-792)	1,38
Moisture Absorption % (ASTM D-570)	0,1 - 0,2%
Hard Vacuum Data (ASTM E-595 at 10 ⁻⁵ torr)	
TML	0,19
CVCM	0,00
WVR	0,16
Smoke D-Max (ASTM E-662)	56
Outgassing	Medium
Oxygen Index (ASTM D-2863)	21

CERTIFICATIONS



COLORS

40+ (see next pages)

FLAMMABILITY

Rating UL94VO, FAR25, FMVSS-302

OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	482°F / 250°C
Maximum Continuous (Mil-I-23053)	257°F / 125°C
Minimum Continuous (Mil-I-23053)	-94°F / -70°C

CHEMICAL RESISTANCE

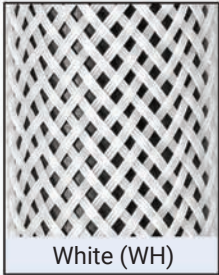
1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected

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	1
UV Light	1
Petroleum	1
Fungus (ASTM G-21)	1
Halogen Free	Yes
RoHS	Yes
SVHC	None



GENERAL PURPOSE

Supplemental Color Sheet



White (WH)



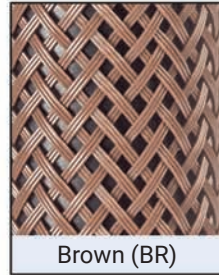
Checkered Flag (CF)



Platinum Gray (PG)



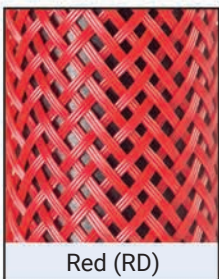
Snake (SK)



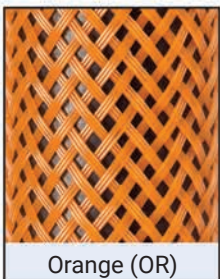
Brown (BR)



Aqua (AQ)



Red (RD)



Orange (OR)



Yellow (YL)



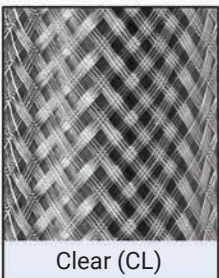
Green (GN)



Blue (BL)



Purple (PP)



Clear (CL)



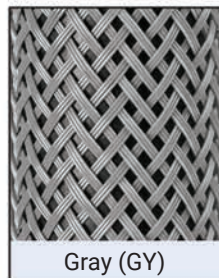
Black (BK)



Carbon (CB)



Beige (BE)



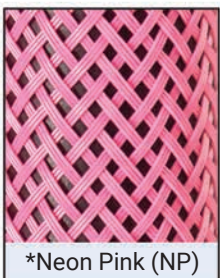
Gray (GY)



Dark Purple (DP)



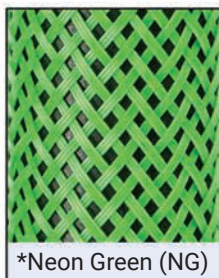
*Neon Red (NR)



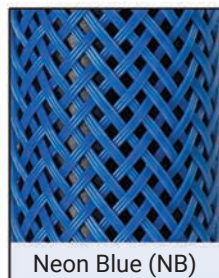
*Neon Pink (NP)



*Neon Yellow (NY)



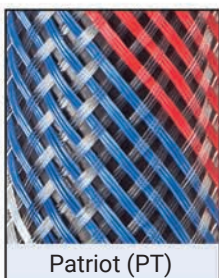
*Neon Green (NG)



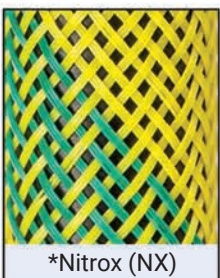
Neon Blue (NB)



Neon Orange (NO)



Patriot (PT)



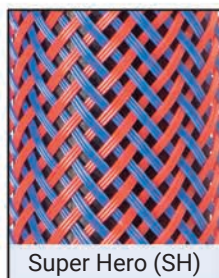
*Nitrox (NX)



*Jester (JS)



*Ogre (OG)



Super Hero (SH)



Safety Stripe (SS)

*UV Reactive

**THE POSSIBILITIES ARE ENDLESS
WITH CUSTOM COMBINATION COLORS
MANUFACTURED BY TECHFLEX®!**



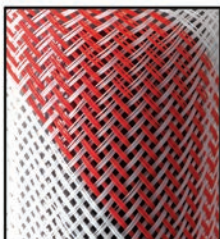
Reggae (RE)



Forest Green (FG)



Black Magic (BM)



Candy Cane (CC)



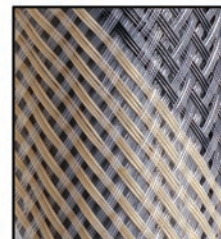
Alien (AL)



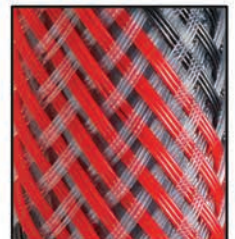
Monochrome (MO)



Gray White (GW)



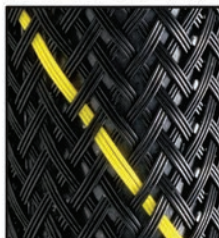
Desert (DS)



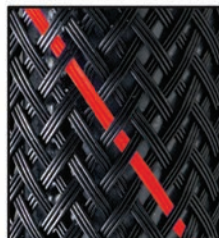
Red Spiral (RS)



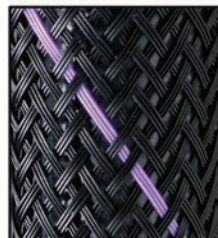
UniTrace Green (UG)



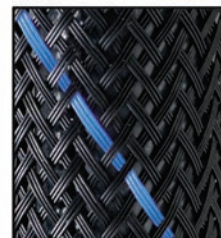
UniTrace Yellow (UY)



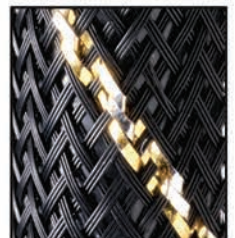
UniTrace Red (UR)



UniTrace Purple (UP)



UniTrace Blue (UB)



UniTrace Gold (UX)



Coral (CO)



Hip Hop (HH)



Sherbert (SB)



Twilight (TL)



Rainbow (RW)



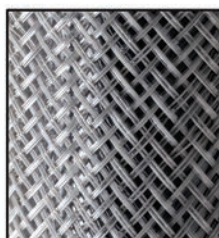
Holiday (HO)



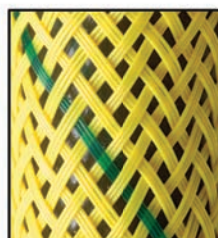
Black Beige (BB)



Ground Wire (GD)



Shimmer (SM)



Corn Kernel (CK)



Rainbow Clear (RC)



Rainbow Black (RB)