



- Economical And Easy To Install
- Resists Gasoline, Engine Chemicals And Cleaning Solvents
- Expands Up To 150%
- Cut And Abrasion Resistant
- FMVSS 302 Approval



Cut Cleanly  
Hot Knife

**Material**  
Polyethylene Terephthalate

**Grade**  
PTN

**Monofilament Diameter**  
.010"

**Drawing Number**  
TF001PET-WD

Put-Ups

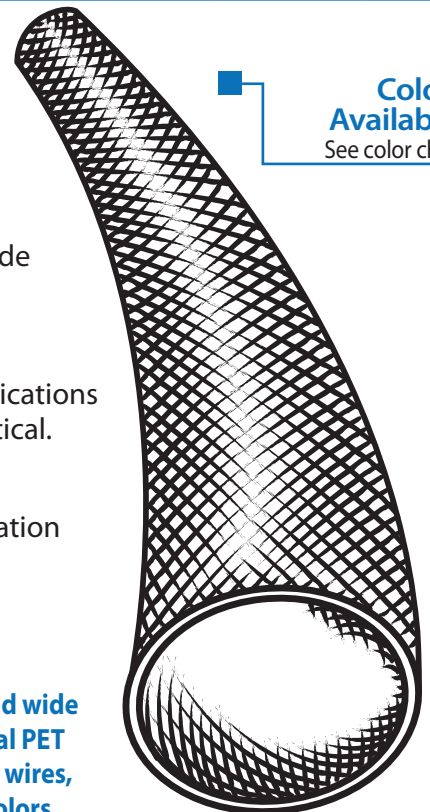
Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100'
		Min	Max				
1/16"	PTN0.06	3/64"	3/32"	1,000'	250'		0.22
1/8"	PTN0.13	3/32"	1/4"	1,000'	225'		0.20
1/4"	PTN0.25	1/8"	7/16"	1,000'	200'		0.30
5/16"	PTN0.31	5/32"	15/32"	500'	150'		0.50
3/8"	PTN0.38	3/16"	1/2"	500'	125'		0.57
7/16"	PTN0.44	7/32"	5/8"	500'	125'		0.68
1/2"	PTN0.50	1/4"	3/4"	500'	100'		0.77
9/16"	PTN0.56	5/16"	7/8"	500'	100'	more	0.81
5/8"	PTN0.63	3/8"	1"	500'	100'	than	0.95
3/4"	PTN0.75	1/2"	1 1/4"	250'	75'	40	1.20
1"	PTN1.00	5/8"	1 5/8"	250'	65'		1.34
1 1/4"	PTN1.25	3/4"	1 3/4"	250'	50'		1.60
1 1/2"	PTN1.50	1"	2 1/8"	200'	40'		1.96
1 3/4"	PTN1.75	1 1/4"	2 3/4"	200'	30'		2.45
2"	PTN2.00	1 1/2"	3 1/2"	200'	50'		2.60
2 1/2"	PTN2.50	1 3/4"	3 5/8"	200'	50'		3.80
3"	PTN3.00	2 1/2"	4 3/4"	100'	50'	BK,CL,NB,RE	4.00
<b>3 END CONSTRUCTION</b>							
1/4"	PT30.25	1/8"	3/8"	1,000'	200'	4	0.39
<b>9 MIL CONSTRUCTION</b>							
4"	PT94.00BK	4"	6 1/2"	100'	50'	BK	3.80
<b>PET LEAN</b>							
3/4"	PTL0.75BK	1/2"	1 1/4"	250'	75'	BK	1.04
1 1/4"	PTL1.25BK	3/4"	1 3/4"	250'	50'	BK	1.19

**A Versatile Bundling And Protection Solution**

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 industrial 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.

Colors Available:  
See color chart



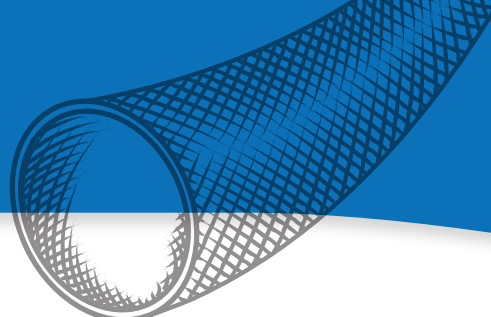
High thermal and chemical resistance and wide color/size selection make FLEXO® Original PET ideal for customizing and protecting the wires, hoses and cables in custom and classic colors.



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**ABRASION**  **FLAMMABILITY**

**Abrasion Resistance**  
High

Rating \_\_\_\_\_ UL94VO, FAR25,  
FMVSS-302

**Abrasion Test Machine**  
Taber 5150

**Abrasion Test Wheel**  
Calibrase H-18

**Abrasion Test Load**  
500g

**Room Temperature**  
77°F

**Humidity**  
72%

**Two Broken Filament**  
300 Test Cycles

**Approximately 6 Broken**  
**Filaments**  
500 Test Cycles

**Material Destroyed**  
**- Very Visible Hole In**  
**Material**  
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

 **CHEMICAL**  
**RESISTANCE**

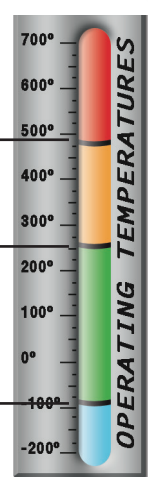
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

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 _____	1
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)

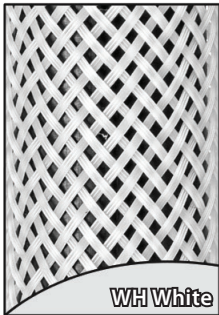
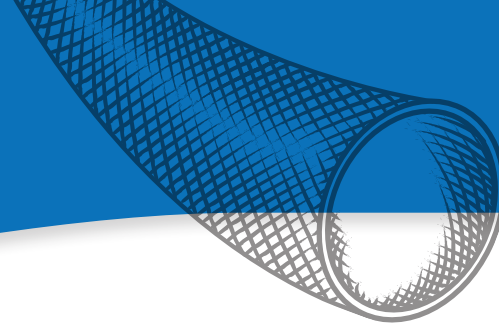
**Minimum Continuous**  
-94°F (-70°C)



 **PHYSICAL**  
**PROPERTIES**

Monofilament Diameter _____	.010
ASTM D-204	
Flammability Rating _____	UL94
FMVSS-302 Approved	
Recommended Cutting _____	Hot Knife
Colors _____	>40
Wall Thickness _____	.025
Tensile Strength (Yarn) _____	7.5
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 _____	.00
WVR _____	.16
Smoke D-Max _____	56
ASTM E-662	
Outgassing _____	Med
Oxygen Index _____	21
ASTM D-2863	

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WH White



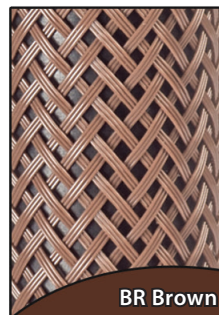
CF Checkered Flag



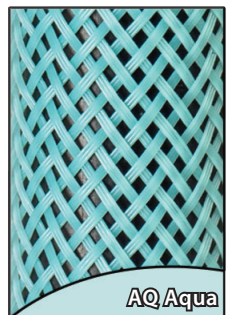
PG Platinum Gray



SK Snake



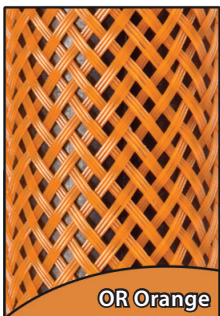
BR Brown



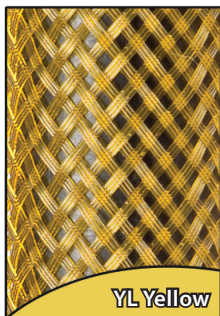
AQ Aqua



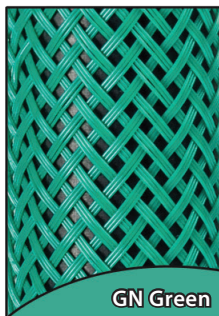
RD Red



OR Orange



YL Yellow



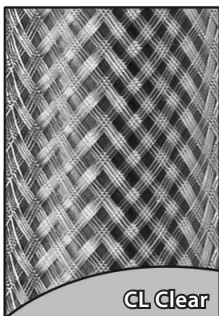
GN Green



BL Blue



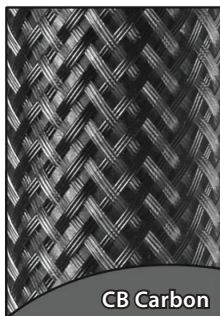
PP Purple



CL Clear



BK Black



CB Carbon



BE Beige



GY Gray



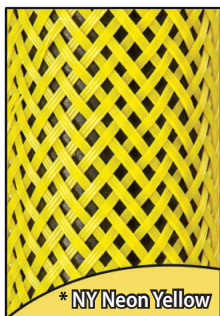
DP Dark Purple



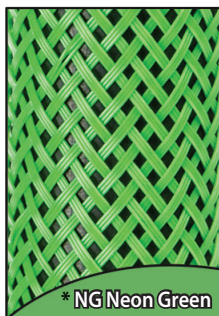
\*NR Neon Red



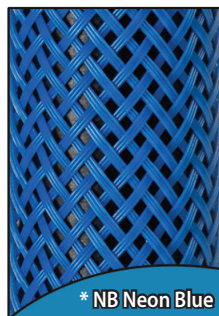
\*NP Neon Pink



\*NY Neon Yellow



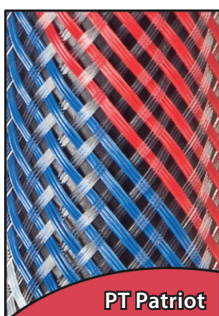
\*NG Neon Green



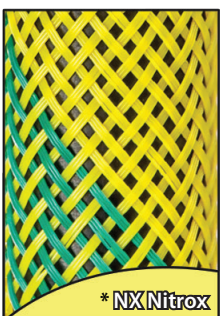
\*NB Neon Blue



\*NO Neon Orange



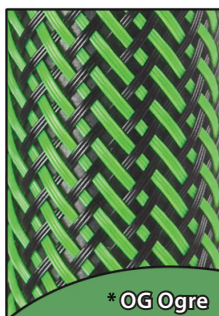
PT Patriot



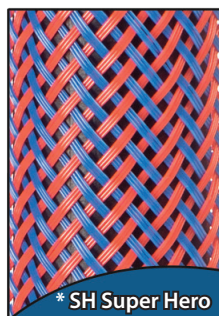
\*NX Nitrox



\*JS Jester



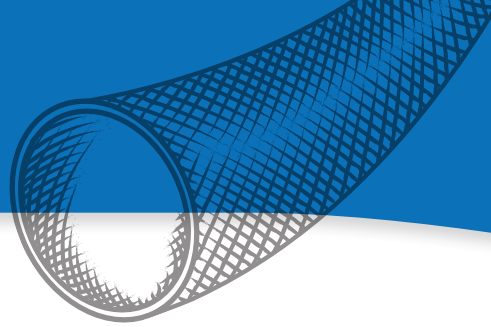
\*OG Ogre



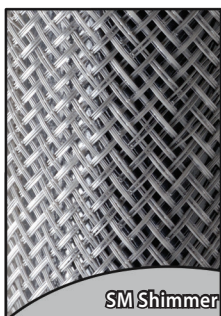
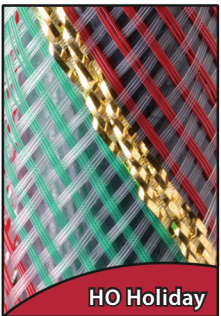
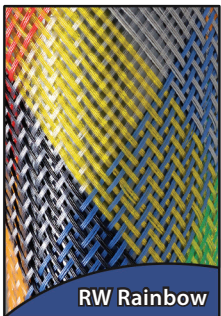
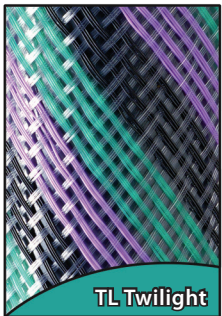
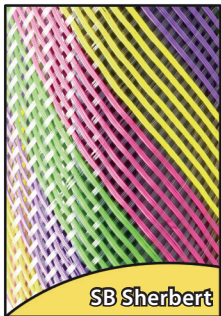
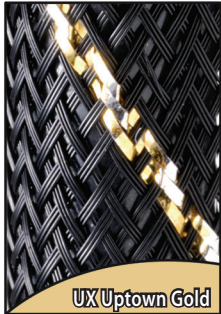
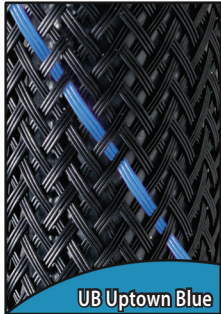
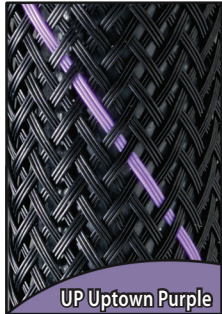
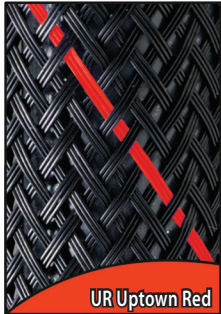
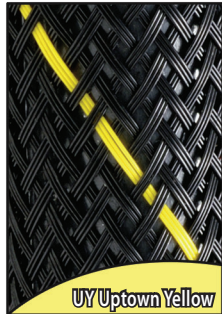
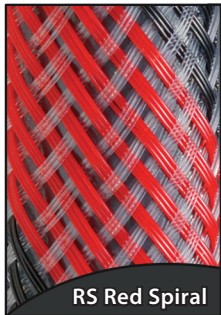
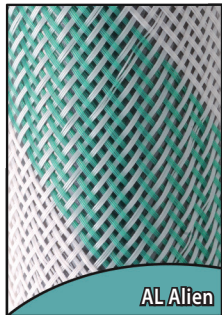
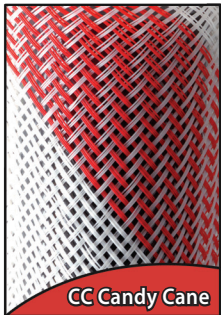
\*SH Super Hero



SS Safety Stripe



- Custom combination colors manufactured by Techflex
- The possibilities are endless!





## 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 industrial 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	Lbs/100'
				M	L		
1/16"	PTN0.06	3/64"	3/32"	250'	1,000'		0.22
1/8"	PTN0.13	3/32"	1/4"	225'	1,000'		0.20
1/4"	PTN0.25	1/8"	7/16"	200'	1,000'		0.30
5/16"	PTN0.31	5/32"	15/32"	200'	1,000'		0.50
3/8"	PTN0.38	3/16"	1/2"	125'	500'		0.57
7/16"	PTN0.44	7/32"	5/8"	100'	500'		0.68
1/2"	PTN0.50	1/4"	3/4"	100'	500'		0.77
9/16"	PTN0.56	5/16"	7/8"	100'	500'	more	0.81
5/8"	PTN0.63	3/8"	1"	100'	500'	than	0.95
3/4"	PTN0.75	1/2"	1 1/4"	75'	250'	40	1.20
1"	PTN1.00	5/8"	1 5/8"	65'	250'		1.34
1 1/4"	PTN1.25	3/4"	1 3/4"	50'	250'		1.60
1 1/2"	PTN1.50	1"	2 1/8"	40'	200'		1.96
1 3/4"	PTN1.75	1 1/4"	2 3/4"	30'	200'		2.45
2"	PTN2.00	1 1/2"	3 1/2"	50'	200'		2.60
2 1/2"	PTN2.50	1 3/4"	3 5/8"	50'	100'		3.80
3"	PTN3.00	2 1/2"	4 3/4"	50'	100'		4.00
<b>3 END CONSTRUCTION</b>							
1/4"	PT30.25	1/8"	3/8"	200'	1,000'	4	0.39
<b>9 MIL CONSTRUCTION</b>							
4"	PT94.00BK	4"	6 1/2"	50'	100'	BK	3.80
<b>PET LEAN</b>							
3/4"	PTL0.75BK	1/2"	1 1/4"	75'	250'	BK	1.04
1 1/4"	PTL1.25BK	3/4"	1 3/4"	50'	250'	BK	1.19

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





## FEATURES

Material	Polyethylene Terephthalate
Grade	PTN
Monofilament Diameter	.010"
Drawing Number	TF001PET-WD
Cutting	Hot Knife

## ABRASION

Abrasion Resistance	<b>HIGH</b>
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	77°F
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)	.010"
Flammability Rating	UL94
Recommended Cutting	Hot KnifeK
Colors	40+
Wall Thickness	.025"
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	7.5
Specific Gravity (ASTM D-792)	1.38
Moisture Absorption % (ASTM D-570)	.1-.2
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	
TML	.19
CVCM	.00
WVR	.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	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	1
UV Light	1
Petroleum	1
Fungus (ASTM G-21)	1
Halogen Free	Yes
RoHS	Yes
SVHC	None

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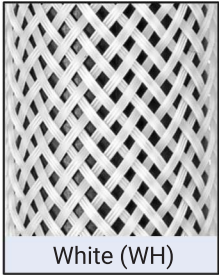
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# GENERAL PURPOSE

Supplemental Color Sheet



White (WH)



Checkered Flag (CF)



Platinum Gray (PG)



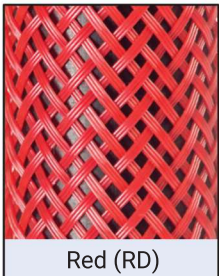
Snake (SK)



Brown (BR)



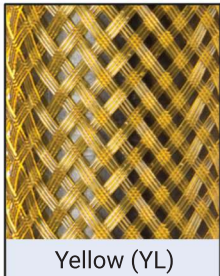
Aqua (AQ)



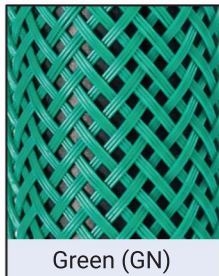
Red (RD)



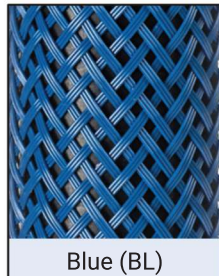
Orange (OR)



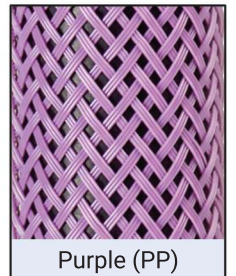
Yellow (YL)



Green (GN)



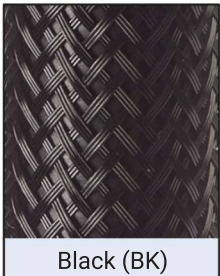
Blue (BL)



Purple (PP)



Clear (CL)



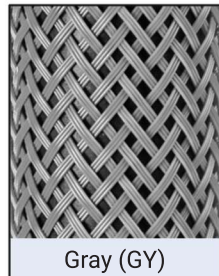
Black (BK)



Carbon (CB)



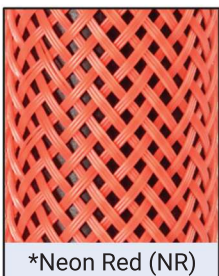
Beige (BE)



Gray (GY)



Dark Purple (DP)



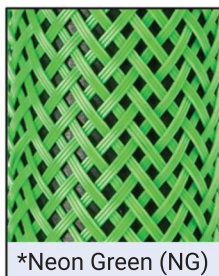
\*Neon Red (NR)



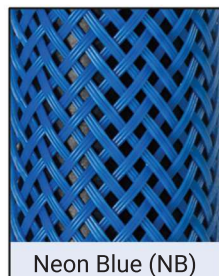
\*Neon Pink (NP)



\*Neon Yellow (NY)



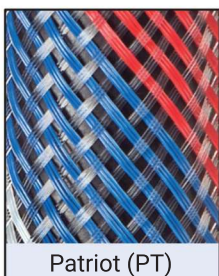
\*Neon Green (NG)



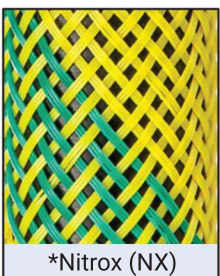
Neon Blue (NB)



Neon Orange (NO)



Patriot (PT)



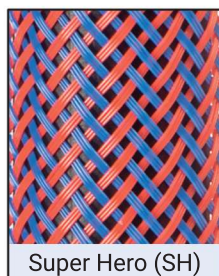
\*Nitrox (NX)



\*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)



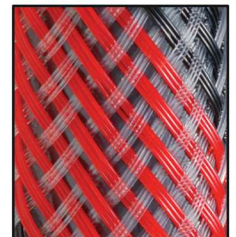
Monochrome (MO)



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)



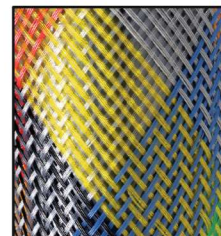
Hip Hop (HH)



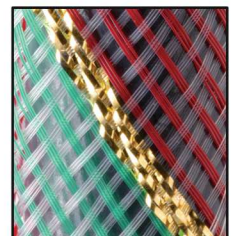
Sherbert (SB)



Twilight (TL)



Rainbow (RW)



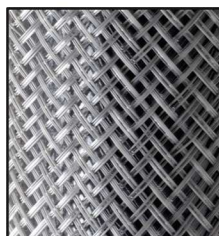
Holiday (HO)



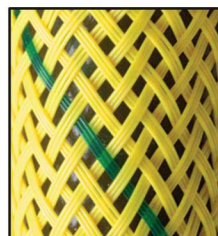
Black Beige (BB)



Ground Wire (GD)



Shimmer (SM)



Corn Kernel (CK)



Rainbow Clear (RC)



Rainbow Black (RB)



# TechFlex PET Colored Braided Sleeving

## Features:

- Excellent cut through and abrasion resistance
- High quality alternative to Bentley Harris Expando PT®, Alpha GRP-110, PET sleeving
- Continuous use temperature of -70°C to 125°C (-103°F to 257°F)
- Melt temperature of 260°C (500°F)
- Expands up to three times its resting diameter
- Halogen Free, ROHS compliant
- Self Extinguishing
- Resists Gasoline, Engine Chemicals & Cleaning Solvents
- Braided from 10 mil polyethylene terephthalate (PET) monofilament yarns.
- Colors Available: Beige, Black, Dark Blue, BLACK MAGIC, Brown, Checkered Flah, Clear, Dark Purple, Green, Graphite, Grey, Jester, Fluorescent Blue, Neon Green, Neon Pink, Neon Red, NITROX, Neon Yellow, OGRE, Orange, Platinum Gray, Purple, PATRIOT, Red, SUPER HERO, SAFETY STRIPE, White, Yellow