

## Abrasion Protection

Panduit® abrasion protection products provide an economical and easy way to insulate, protect, bundle and color-code components and cable. A wide variety of sizes and materials are available to meet a broad range of indoor and outdoor applications. To help assure optimum quality, Panduit abrasion protection products are designed and manufactured to meet applicable quality standards including International, UL, Military, ISO, and Aerospace.



- **Pan-Wrap™ Split Harness Wrap features a patented slot pattern to improve flexibility and abrasion protection**
- **Spiral wrap bundles and protects wire and cable while providing the largest variety of colors, materials, and sizes to meet a variety of needs**
- **Grommet edging protects wire and cable from damage caused by sharp panel edges**
- **Heat shrink is available in many different materials and sizes to meet a variety of needs**
- **Corrugated loom tubing is crush, impact, and abrasion resistant to reduce the risk of damage to wire and cable**
- **Braided expandable sleeving provides continuous abrasion resistance and lightweight durable protection, with a flexible open weave that will not trap heat or humidity**

Panduit abrasion protection products provide quality at the lowest installed cost. With a continued focus on new product development, Panduit continues to meet customer needs.

### Pan-Wrap™ Installation Tools

- Patented installation tool with 180° opening allows easy loading of maximum bundle diameters to speed installation, providing the lowest installed cost
- The Pan-Wrap installation tool is designed for use with our Pan-Wrap Split Harness Wrap, Pan-Wrap Braided Sleeving and Corrugated Loom Tubing Products



Part Number	Color	For Use With	Std. Pkg. Qty.**
PWT38	White	Pan-Wrap Braided Sleeving – Size: 1/4" Slit Wall Corrugated Loom Tubing – Size: 3/8"	1
PWT50	White	Pan-Wrap Split Harness Wrap – Size: 1/2" Pan-Wrap Braided Sleeving – Size: 1/2" Slit Wall Corrugated Loom Tubing – Size: 1/2"	1
PWT75	White	Pan-Wrap Split Harness Wrap – Size: 3/4" Pan-Wrap Braided Sleeving – Size: 3/4" Slit Wall Corrugated Loom Tubing – Size: 3/4"	1
PWT100	White	Pan-Wrap Split Harness Wrap – Size: 1" Pan-Wrap Braided Sleeving – Size: 1" Slit Wall Corrugated Loom Tubing – Size: 1"	1
PWT150	White	Pan-Wrap Split Harness Wrap – Size: 1 1/2" Pan-Wrap Braided Sleeving – Size: 1 1/2" Slit Wall Corrugated Loom Tubing – Size: 1 1/2"	1

\*\*Order number of tools required.

### Part Number System for Spiral Wrap

<b>T</b>	<b>25</b>	<b>F</b>	—	<b>C</b>	<b>16</b>
Type	Outside Diameter	Material		Package Size	Color Suffix
T = Spiral Wrap	12 = 1/8" 19 = 3/16" 25 = 1/4" 38 = 3/8" 50 = 1/2" 62 = 5/8" 75 = 3/4" 100 = 1"	F = Polyethylene R = Fire Resistant Polyethylene FR = Flame Retardant Polyethylene N = Nylon NZFR = Halogen-Free Flame Retardant Nylon T = TFE^ P = Weather Resistant Polypropylene		X = 10' Q = 25' L = 50' C = 100' T = 200' TL = 250' D = 500' M = 1,000'	See Table Below

Color	Color Suffix	Material Availability						
		Polyethylene	Fire Resistant Polyethylene	Flame Retardant Polyethylene	Nylon 6.6	Halogen-Free Flame Retardant Nylon 6	Weather Resistant Polyethylene	TFE ▲
Natural*	No Suffix Will be Listed	✓	✓	✓	✓			✓
Weather Resistant Black	0	✓			✓		✓	
Brown	1	✓						
Red	2	✓						
Orange	3	✓						
Yellow	4	✓						
Green	5	✓						
Blue	6	✓						
Purple	7	✓						
Gray	8	✓						
White	10	✓						
Pink	16	✓						
Black	20	✓	✓	✓	✓	✓		

^TFE is Polytetrafluorethylene material.  
\*Natural can range from transparent, opaque, to white.

### Spiral Wrap



- Harness multiple cables into a single manageable bundle
- Allows breakouts of single/multiple cables
- Provides abrasion protection for wire, cables, hoses, and tubing
- Reverse cut
- Multiple colors allow easy identification of cable bundles
- Installation tool supplied in each package
- Available in multiple materials
- Reusable
- UL File: E141152
- Voltage Rating: 600 V

Part Number	Material*	Color	Length Per Reel		Bundle Diameter Range		Outside Diameter		Temperature Range	Wall Thickness		Std. Pkg. Qty.‡
			Ft.	m	In.	mm	In.	mm		In.	mm	
T12F-C	Polyethylene	Natural	100	30.5	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-40°F – 122°F (-40°C – 50°C)	0.030	0.76	1
T12F-D	Polyethylene	Natural	500	152.4	1/16 – 1/2	1.6 – 12.7	0.12	3.2	-40°F – 122°F (-40°C – 50°C)	0.030	0.76	1
T19F-C	Polyethylene	Natural	100	30.5	1/8 – 1	3.2 – 25.4	0.19	4.8	-40°F – 122°F (-40°C – 50°C)	0.035	0.89	1
T19F-M	Polyethylene	Natural	1,000	304.8	1/8 – 1	3.2 – 25.4	0.19	4.8	-40°F – 122°F (-40°C – 50°C)	0.035	0.89	1
T25F-C	Polyethylene	Natural	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C1	Polyethylene	Brown	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C2	Polyethylene	Red	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C3Y	Polyethylene	Orange	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C4Y	Polyethylene	Yellow	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C5	Polyethylene	Green	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C6	Polyethylene	Blue	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C7	Polyethylene	Purple	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C8	Polyethylene	Gray	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C10	Polyethylene	White	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-C16	Polyethylene	Pink	100	30.5	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T25F-M	Polyethylene	Natural	1,000	304.8	3/16 – 2	4.8 – 50.8	0.25	6.4	-40°F – 122°F (-40°C – 50°C)	0.040	1.02	1
T38F-C	Polyethylene	Natural	100	30.5	5/16 – 3	7.9 – 76.2	0.38	9.5	-40°F – 122°F (-40°C – 50°C)	0.055	1.40	1
T38F-TL	Polyethylene	Natural	250	76.2	5/16 – 3	7.9 – 76.2	0.38	9.5	-40°F – 122°F (-40°C – 50°C)	0.055	1.40	1
T50F-X	Polyethylene	Natural	10	3.1	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	1
T50F-C	Polyethylene	Natural	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	1
T50F-C1	Polyethylene	Brown	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	1
T50F-C2	Polyethylene	Red	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	1
T50F-C3Y	Polyethylene	Orange	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	1
T50F-C4Y	Polyethylene	Yellow	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	1
T50F-C5	Polyethylene	Green	100	30.5	3/8 – 4	9.5 – 101.6	0.50	12.7	-40°F – 122°F (-40°C – 50°C)	0.060	1.52	1

\*Flame retardant products are manufactured from a material that is rated UL 94V-0.  
‡Reel packaging may contain splices. Contact Panduit Customer Service for further information.

Continues on next page