

Cross Reference	
Versafit	Raychem/Tyco
CPX 876	DSG-Canusa
FP-301 VW	3M



# UPTWFR

## UNION POLYMER THIN WALL FLAME RETARDANT POLYOLEFIN



 	<b>Shrink ratio 2:1</b>
	<b>Mil-DTL-23053/5, Class 3</b>
<b>Flame retardant meets UL224 VW-1 standards</b>	

### FEATURES AND APPLICATIONS

- Flexible cross-linked polyolefin
- Flame retardant, ideal for fire-resistant coverings of components and flammable wire assemblies
- Variety of colors available: Black, Red, White, Yellow, Green and Blue
- Printable; Customized printing is available on request
- Operating temperature: -55°C to 135°C; Shrink temperature: 125°C

### DIMENSIONS (HEAT SHRINK RATIO 2:1)

Product Order Number	Internal Diameter Expanded As Supplied		Internal Diameter After Unrestricted Shrinkage		Wall Thickness After Shrinkage		Standard Length per Spool	
	inch	mm	inch	mm	inch	mm	m	ft
3/64	3/64	1.2	3/128	0.6	0.011	0.28	300	1000
1/16	1/16	1.6	1/32	0.8	0.013	0.32	300	1000
3/32	3/32	2.4	3/64	1.2	0.015	0.38	300	1000
1/8	1/8	3.2	1/16	1.6	0.016	0.40	300	1000
3/16	3/16	4.8	3/32	2.4	0.020	0.52	300	1000
1/4	1/4	6.4	1/8	3.2	0.022	0.55	150	500
3/8	3/8	9.5	3/16	4.8	0.024	0.60	150	500
1/2	1/2	12.7	1/4	6.4	0.026	0.65	60	200
3/4	3/4	19.1	3/8	9.5	0.031	0.80	30	100
1	1	25.4	1/2	12.7	0.035	0.90	30	100
1½	1½	38.1	3/4	19.1	0.039	1.00	30	100
2	2	50.8	1	25.4	0.043	1.10	30	100
3	3	76.2	1½	38.1	0.057	1.46	15	50
4	4	101.6	2	50.8	0.057	1.46	15	50

## TECHNICAL DATA

	Property	Test Method	Values
Physical	Tensile strength	When test at 500mm/min.	≥ 10.4MPa
	Breakdown elongation	When test at 500mm/min.	≥ 200%
Aging (158°C/168 hrs)	Tensile strength	When test at 500mm/min.	≥ 7.3MPa
	Breakdown elongation	When test at 500mm/min.	≥ 100%
	Density	-	1.15 - 1.25
	Heat shock	4 hrs at 250°C	No cracking, drop or flow
	Cold blend	1 hr at -30°C	No cracking
	Water absorption 24 hrs 23°C	-	≤ 0.5%
Electrical	Dielectric breakdown voltage	-	≥ AC 2500V
	Dielectric voltage withstand	1 min. AC 2500V	No breakdown
Aging (158°C/168 hrs)	Dielectric breakdown voltage	-	AC 2500V min. and more than 50% of the value obtained with unaged sample
	Dielectric voltage withstand	1 min. AC 2500V	No breakdown
	Volume resistivity	-	≥ 10 <sup>14</sup> Ω.cm
Chemical	Copper stability	168 hrs at 158°C 500mm/min.	Elongation ≥ 100%
	Flammability	UL224 VW-1	pass

## ORDERING

- Standard color: Black, Red, White, Blue, Yellow and Green
- Please specify:
  - ◆ Dimension
  - ◆ Color
  - ◆ Quantity (length in FT)
  - ◆ Printing options (standard printed, customize printed, or unprinted)

**Order Example:** UPTWFR, 3/4", Black, 2000 FT, unprinted