

Cross Reference	
Versafit V2/RNF-100	Raychem/Tyco
CPX 300	DSG-Canusa
FP-301	3M



UPTW301

UNION POLYMER THIN WALL POLYOLEFIN 3 TO 1



Heat shrink ratio 3:1

Meet MIL-DTL-23053/5 standards

Flexible polyolefin tubing for general purposes

FEATURES AND APPLICATIONS

- Ideal for electrical insulation of wire splices and mechanical protection for terminal strain relief and wire bundling
- Protects components from abrasion and fluids
- Variety of colors available: Black, Red, Yellow, Green, Blue, and White
- Halogen free, RoHS compliant
- Operating temperature: -40°C to 125°C; Shrink temperature: 125°C

DIMENSIONS (HEAT SHRINK RATIO 3:1)

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
1/8	1/8	3.2	0.042	1.1	0.020	0.51	200	667
3/16	3/16	4.8	0.063	1.6	0.020	0.70	200	667
1/4	1/4	6.4	0.083	2.1	0.030	0.75	100	333
3/8	3/8	9.5	0.125	3.2	0.037	0.95	50	167
1/2	1/2	12.7	0.165	4.2	0.040	1.02	50	167
3/4	3/4	19.1	0.250	6.4	0.043	1.09	25	83.5
1	1	25.4	0.333	8.5	0.046	1.17	25	83.5
1½	1½	38.1	0.500	12.7	0.051	1.29	1.22	4
2	2	50.8	0.667	16.9	0.060	1.52	1.22	4
3	3	76.2	1.000	25.4	0.062	1.57	1.22	4
4	4	101.6	1.333	33.8	0.065	1.65	1.22	4

TECHNICAL DATA

	Property	Test Method	Values
Physical	Density	-	1.25~1.35
	Thermal endurance	-	125°C
	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%
	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%
	Halogen free	IEC 61249-2-21	Cl:900ppm max. Br: 900ppm max. Total (Cl+BR): 1500ppm max
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 ¹⁴ Ω.cm
Chemical	Copper stability	168 hrs at 158°C 500mm/min.	Elongation ≥ 100%

ORDERING

- Standard color: Black, Red, Blue, Yellow, Green, and Clear (MIL-DTL-23053/5, Class 2, non-flame retardant)
- Please specify:
 - ◆ Product Name
 - ◆ Dimension
 - ◆ Color
 - ◆ Quantity (length in FT)
 - ◆ Printing options (standard printed, customize printed, or unprinted)

Order Example: UPTW301, 3/4", Black, 9000 FT, Standard printed