

Cross Reference	
Versafit V2/RNF-100	Raychem/Tyco
CPX 100	DSG-Canusa



UPTW201

UNION POLYMER THIN WALL POLYOLEFIN 2 TO 1



Heat shrink ratio 2:1

Meet MIL-DTL-23053/5 standards

Flexible, thin wall polyolefin 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
- Resistant to common fluids and solvents
- 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 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	1.20	3/128	0.6	0.011	0.28	200	667
1/16	1/16	1.60	1/32	0.8	0.013	0.32	200	667
3/32	3/32	2.40	3/64	1.2	0.015	0.38	200	667
1/8	1/8	3.20	1/16	1.6	0.016	0.40	200	667
3/16	3/16	4.80	3/32	2.4	0.020	0.52	100	333
1/4	1/4	6.40	1/8	3.2	0.022	0.55	100	333
3/8	3/8	9.50	3/16	4.8	0.024	0.60	100	333
1/2	1/2	12.70	1/4	6.4	0.026	0.65	100	333
3/4	3/4	19.10	3/8	9.5	0.031	0.80	100	333
1	1	25.40	1/2	12.7	0.035	0.90	50	167
1½	1½	38.10	3/4	19.1	0.039	1.00	50	167
2	2	50.80	1	25.4	0.043	1.10	25	83.5
3	3	76.20	1½	38.1	0.057	1.46	25	83.5
4	4	101.60	2	50.8	0.057	1.46	25	83.5

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: UPTW201, 3/4", Black, 300,000 FT, Standard printed