



## DUNBAR-CHWT-FR

3:1 SHRINK RATIO, FLEXIBLE, SEMI-RIGID, HEAVY WALL, FLAME-RETARDANT, ADHESIVE-LINED POLYOLEFIN TUBING

### Applications

DUNBAR-CHWT-FR is designed to provide reliable performance as well as excellent mechanical and environmental protection. DUNBAR-CHWT-FR is designed for sealing and insulation of cable splices, electrical connections, terminations and jacket repairs. Ideally suited for shipboard, submersible, direct-buried installations, or wherever tougher mechanical protection is required in an electrical insulation system.

### Features

- ★ Shrink ratio: 67% or more in the radial direction, 20% or less in the axial direction
- ★ In stock for immediate shipments
- ★ Operating temperature range: -55 °C (-67 °F) to 125 °C (230 °F)
- ★ Flammability: UL VW-1, CSA OFT (except clear)
- ★ High Carbon Black composition to resist UV radiation
- ★ Exceptional flexibility prior to recovery

### Standard

- ★ UL 224 (File Number E319303)
- ★ ABS File No. 02-SE23285-X
- ★ REACH Compliant
- ★ RoHS Compliant

### Specification Values

Properties		Test Methods	Values	
Physical	Unaged	Tensile strength	ASTM D638	Min. 1200 psi
		Elongation		Min. 200%
	Aged	Tensile strength	ASTM D638	Min. 1000 psi
		Elongation		Min. 100%
	Fluid Resist.	Tensile strength	24 °C/24 hrs	Min. 750 psi
		Dielectric strength	6 Fluids	Min. 200Volts/mil
	Low temperature flex		-55°Cx4hrs	No cracks
	Heat shock		225°Cx4hrs	No cracks, flowing, or dripping
Secant Modulus		ASTM D882	Max. 25,000 psi	
Electrical	Dielectric strength		ASTM D2671	Min. 200V / mil
	Volume resistivity		ASTM D876	Min. 1x10 <sup>13</sup> Ω - cm
Chemical	Copper corrosion		121°C/16hrs	No corrosion
	Fungus resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 0.5
	Flammability		ASTM D2671	Pass

February 2015



Dunbar Products, LLC  
Tubing and Identification Products

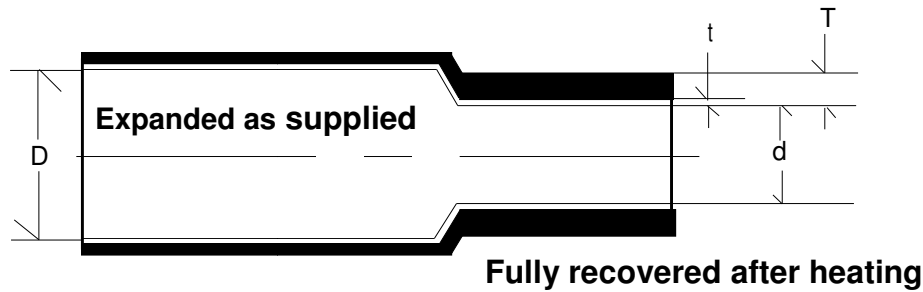
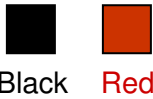
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Available Colors



## Product Dimensions Minimum Shrink Temperature: 120°C

Nominal Size (mm)	Expanded			Recovered			
	As Supplied ID* (min.) (D)		Adhesive Inner Wall (t)	Internal Diameter (max.) (d)		Wall Thickness (nominal) (T)	
	In.	mm	In.	In.	mm	In.	mm
20	.750	19.1	.0294	.220	5.59	.105	2.7
28	1.100	27.9	.0348	.375	9.53	.120	3.1
38	1.500	38.1	.0410	.500	12.7	.140	3.6
51	2.000	50.8	.0375	.750	19.1	.155	3.44
85	3.000	76.2	.0353	1.250	31.8	.155	3.44
100	4.000	101.6	.0455	1.750	44.5	.155	3.44
9	.300	7.6	.0107	.100	2.5	.050	1.3
13	.400	10.2	.0134	.150	3.8	.060	1.5
33	1.300	33.0	.0348	.375	9.5	.120	3.1
43	1.700	43.2	.0410	.500	12.7	.155	3.4
70	2.700	68.6	.0482	.900	22.9	.155	3.4
130	4.500	114.3	.0442	1.750	44.5	.170	4.3

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