



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
- ★ High Carbon Black composition to resist UV radiation
- ★ Exceptional flexibility prior to recovery

Standards

- ★  UL 224: VW-1, 125 °C, 600 V (File Number E319303)
- ★ Declared Dimensional Life (DDL) – 10 Years
- ★ ABS File No. 02-SE23285-X
- ★ RoHS & REACH Compliant

Specification Values

Property			Test Method	Value
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 6 Fluids	Min. 750 psi
		Dielectric Strength		Min. 200 Volts/mil
	Low Temperature Flex		-55 °C x 4 hrs	No cracks
	Heat Shock		225 °C x 4 hrs	No cracks, flowing, or dripping
Electrical	Secant Modulus		ASTM D882	Max. 25,000 psi
	Dielectric Strength		ASTM D2671	Min. 200 Volts/mil
	Volume Resistivity		ASTM D876	Min. $10^{13} \Omega \cdot \text{cm}$
	Flammability		ASTM D2671	Pass
Chemical	Copper Corrosion		121 °C/16 hrs	No corrosion
	Fungus Resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 0.5%
	Flammability		ASTM D2671	Pass

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Dunbar Products, LLC
Tubing and Identification Products

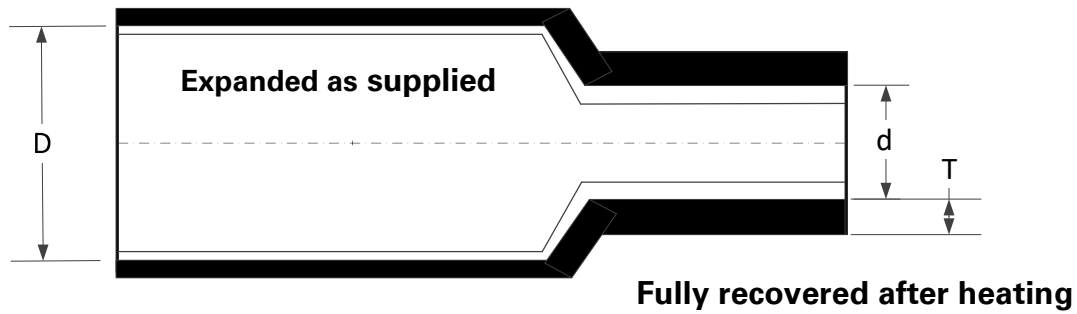


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Product Dimensions

Minimum Shrink Temperature: 120 °C

Size	Expanded		Recovered			
	As Supplied ID* (Minimum) (D)		Internal Diameter (Maximum) (d)		Wall Thickness (Minimum) (T)	
	In (mm)	in	mm	in	mm	in
300 (7.6 mm)		0.300	7.6	0.100	2.5	0.035
400 (10.2 mm)		0.400	10.2	0.150	3.8	0.040
500 (12.7 mm)		0.500	12.7	0.170	4.3	0.040
750 (19.1 mm)		0.750	19.1	0.220	5.6	0.070
1100 (27.9 mm)		1.100	27.9	0.375	9.5	0.080
1300 (33.0 mm)		1.300	33.0	0.375	9.5	0.080
1500 (38.1 mm)		1.500	38.1	0.500	12.7	0.095
1700 (43.2 mm)		1.700	43.2	0.500	12.7	0.105
2000 (50.8 mm)		2.000	50.8	0.750	19.1	0.105
2700 (68.6 mm)		2.700	68.6	0.900	22.9	0.105
3000 (76.2 mm)		3.000	76.2	1.250	31.8	0.105
4000 (101.6 mm)		4.000	101.6	1.750	44.5	0.105
4500 (114.3 mm)		4.500	114.3	1.750	44.5	0.115
5100 (130 mm)		5.100	129.5	1.750	44.5	0.125

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*Supplied ID is for uncoated product. An allowance of approximately 0.050" may be necessary depending on coating.

Available Colors – Black & Red



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