

DUNBAR – 4650WS

4:1 SHRINK RATIO, SEMI-RIGID, DUAL-WALL, POLYOLEFIN TUBING (Extended Temperature Range)

Applications

DUNBAR-4650WS is a fully flame retardant, semi-rigid, high shrink ratio, adhesive lined heat shrinkable polyolefin tube. Both jacket and adhesive lining (which flows when heated) are flame retardant. It is designed for insulation and encapsulation of wire splicing and used to seal and protect a wide variety of electrical applications, including wire splices, breakouts, and connectors-to-cable transitions.

Features

- ★ Shrink ratio: 75% or more in the radial direction, 10% or less in the axial direction
- ★ In stock for immediate shipments
- ★ Continuous operating temperature: 55°C (-67°F) to 150°C (302°F)
- ★ Fully Flame-Retardant: <u>Jacket and Adhesive</u>
- ★ Excellent electrical properties
- ★ High resistance to abrasion chemicals and oils

Standard

★ UL 224 (File Number: E319314)

★ RoHS Compliant

Specification Values

Property			Test Method	Value		
Physical	Unaged	Tensile strength	ASTM D638	Min. 2,000 psi		
	Unageu	Elongation	ASTIVI DOSO	Min. 200%		
	Aged	Tensile strength	ASTM D638	Min. 1,400 psi		
		Elongation		Min. 100%		
	Specific G		ASTM D792	Max. 1.33		
	Concentricity		ASTM D2671	Min. 60%		
	Heat shock		250 ℃ /4 hrs	No cracks, flowing or dripping		
	Cold bend		ASTM D746	No cracking		
	Secant Modulus		ASTM D882	Max. 25,000 psi		
Electrical	Dielectric strength		ASTM D2671	Min. 500 Volts/Mil.		
	Volume resistivity		ASTM D876	Min. 1 x 10^{14} Ω - cm		
Chemical	Copper corrosion		150℃/16 hrs	No corrosion		
	Fungus re	esistance	ASTM G21	No growth		
	Flammab	ility	ASTM D2671	Pass – Jacket & Adhesive		

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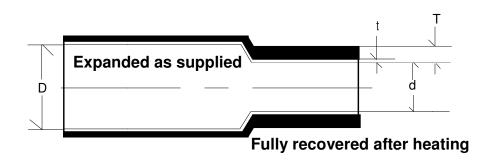


Tel: (469) 568-0800 Fax: (469) 568-0808



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Product Dimensions

Minimum Shrink Temperature: 130 ℃

	Printed	Internal Diameter (min.) (D)		Recovered					
Size				Internal Diameter (max.) (d)		Total Wall Thickness (Nominal) (T)		Wall Thickness Adhesive Wall (Nominal) (t)	
		ln.	mm	ln.	mm	ln.	mm	ln.	mm
6 mm (No. 0)	FDW-0	0.236	6.3	0.050	1.27	0.047	1.20	0.022	0.56
8 mm (No. 1)	FDW-1	0.315	8.2	0.065	1.65	0.060	1.52	0.030	0.76
11 mm (No. 2)	FDW-2	0.433	11.3	0.090	2.29	0.075	1.91	0.040	1.02
12 mm (No. 3)	FDW-3	0.511	12.1	0.100	2.54	0.085	2.15	0.043	1.10
18 mm (No. 4)	FDW-4	0.708	18.1	0.175	4.45	0.095	2.41	0.054	1.30

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