



DUNBAR-QPL™ -321A

3:1 SHRINK RATIO, DUAL-WALL, FLAME RETARDANT, POLYOLEFIN TUBING

Applications

DUNBAR-QPL™ -321A is a flexible, high shrink ratio, flame retardant heat shrinkable polyolefin tube with an adhesive lining which flows when heated. It is suitable to seal and protect a wide variety of electrical applications, including wire splices, breakouts, and connector-to-cable transitions.

Features

- ★ Shrink ratio: 67% or more in the radial direction, 15% or less in the axial direction
- ★ In stock for immediate shipment
- ★ Continuous operating temperature: - 55°C (-67°F) to 110°C (230°F)
- ★ Flammability: UL VW-1 (Jacket only)
- ★ Excellent electrical properties
- ★ High resistance to abrasion, chemicals and oils

Standard

- ★ AS23053/4 Class 3 (Formerly AMS-DTL-23053/4 Class 3)
- ★ UL 224 (File Number: E319303)
- ★ RoHS2 & REACH Compliant

Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	Min. 1300 psi	
		Elongation	Min. 250%	
	Fluid Resist.	Tensile strength	ASTM D 638	Min. 900 psi
		Dielectric strength	ASTM D2671	Min. 200 Volts/mil
	Heat shock		250°C/4 hrs	No cracks, flowing, or dripping
	Low temperature flex		ASTM D746	No crack @ -55°C
Secant Modulus		ASTM 882	Max. 25,000 psi	
Electrical	Dielectric strength		ASTM D2671	Min. 300 Volts/mil
	Volume resistivity		ASTM D876	Min. $1 \times 10^{12} \Omega$ - cm
Chemical	Copper corrosion		121°C/16hrs	No corrosion
	Fungus resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 1.0%
	Flammability		ASTM D2671	Pass

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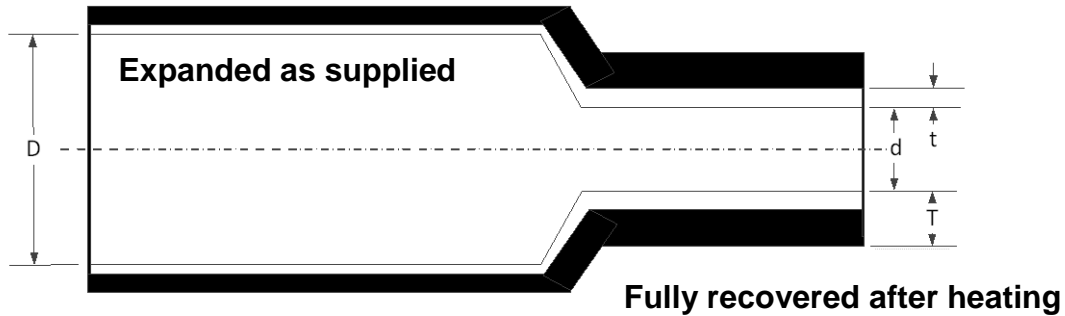
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Tubing and Identification Products

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Product Dimensions

Minimum Shrink Temperature: 120°C

Size	Expanded		Recovered						Standard Length
	Internal Diameter (min.) (D)		Internal Diameter (max.) (d)		Total Wall Thickness (Nominal) (T)		Adhesive Wall Thickness (Nominal) (t)		
	In.	mm	In.	Mm	In.	mm	In.	mm	
1/8"	0.120	3.0	0.040	1.0	0.040	1.0	0.015	0.4	4
3/16"	0.181	4.8	0.059	1.5	0.040	1.0	0.019	0.5	4
1/4"	0.240	6.1	0.080	2.0	0.040	1.0	0.020	0.5	4
3/8"	0.374	9.5	0.118	3.0	0.047	1.2	0.025	0.6	4
1/2"	0.470	11.9	0.160	4.1	0.070	1.8	0.030	0.7	4
3/4"	0.752	19.1	0.236	6.3	0.078	2.0	0.040	1.0	4
1"	0.940	23.9	0.320	8.1	0.100	2.5	0.040	1.0	4
1-1/2"	1.570	39.9	0.510	13.0	0.100	2.5	0.040	1.0	4

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