



DUNBAR-DC-321A

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


Applications

DUNBAR-DC-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 125 °C (257 °F)
- ★ Flammability: UL VW-1 (Jacket only)
- ★ Excellent electrical properties
- ★ High resistance to abrasion, chemicals, and oils

Standard

- ★ Declared Dimension Life (DDL) - 10 years
- ★  UL 224 (File Number: E319303)
- ★ RoHS & REACH Compliant

Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile Strength	ASTM D638	Min. 1300 psi
		Elongation		Min. 250%
	Fluid Resist.	Tensile Strength	ASTM D638	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. $10^{12} \Omega \cdot \text{cm}$
Chemical	Copper Corrosion		121 °C/16 hrs	No corrosion
	Fungus Resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 1.0%
	Flammability		ASTM D2671	Pass

Rev. March 2025



Dunbar Products, LLC
Tubing and Identification Products

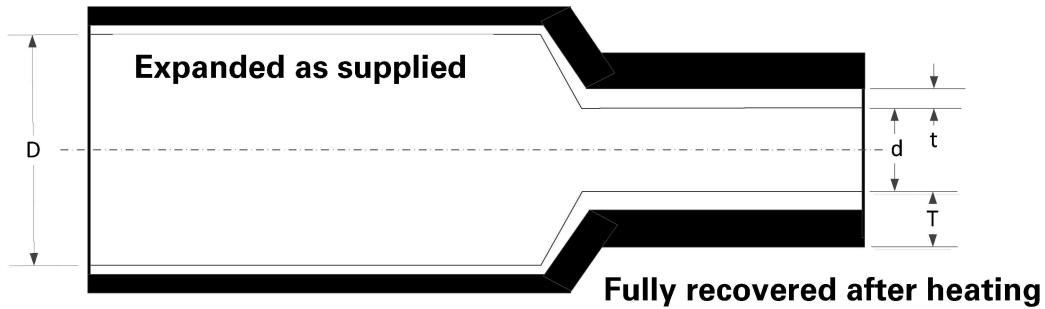


1302 Champion Circle, Carrollton, TX 75006
Tel: (469) 568-0800
Fax: (469) 568-0808



DUNBAR-DC-321A

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



Product Dimensions

Minimum Shrink Temperature: 120 °C

Size	Expanded		Recovered						Standard Length
	Internal Diameter (Minimum) (D)		Internal Diameter (Maximum) (d)		Total Wall Thickness (Nominal) (T)		Wall Thickness Adhesive Wall (Nominal) (t)		
	in	mm	in	mm	in	mm	in	mm	
1/8"	0.126	3.2	0.039	0.99	0.035	.090	0.015	0.40	4
3/16"	0.189	4.8	0.063	1.60	0.041	1.05	0.017	0.42	4
1/4"	0.252	6.4	0.087	2.21	0.049	1.25	0.018	0.45	4
3/8"	0.374	9.5	0.126	3.20	0.057	1.45	0.019	0.50	4
1/2"	0.500	12.7	0.165	4.19	0.065	1.65	0.020	0.52	4
3/4"	0.752	19.1	0.248	6.30	0.077	1.95	0.022	0.57	4
1"	1.000	25.4	0.335	8.51	0.079	2.00	0.023	0.59	4
1-1/4"	1.180	30.0	0.410	10.41	0.085	2.15	0.024	0.61	4
1-1/2"	1.535	39.0	0.531	13.49	0.096	2.45	0.025	0.63	4
2"	1.950	49.5	0.680	17.27	0.108	2.74	0.029	0.74	4
3"	2.90	73.7	1.00	25.40	0.120	3.05	0.040	1.02	4
4"	3.90	99.1	1.35	34.29	0.122	3.10	0.042	1.07	4
5"	4.90	124.5	1.70	43.18	0.124	3.15	0.043	1.10	4

Rev. March 2025



Dunbar Products, LLC
Tubing and Identification Products



1302 Champion Circle, Carrollton, TX 75006
Tel: (469) 568-0800
Fax: (469) 568-0808