



DUNBAR-CRFR

2:1 SHRINK RATIO, NEOPRENE, FLEXIBLE, FLAME RETARDENT, TUBING

Applications

DUNBAR-CRFR is used for insulation, strain relief, and abrasion protection on cable harnesses and wire bundles in military and aerospace industries. It provides fluid and solvent resistance, including lubricating oil, aviation and ground-vehicle fuels and hydraulic fluids. Neoprene remains flexible at low temperatures

Features

- ★ Shrink ratio: 50% or more in the radial direction, 10% or less in the axial direction
- ★ In stock for immediate shipments
- ★ Continuous operating temperature: -70°C (-94°F) to 121°C (250°F)
- ★ Flammability: ASTM D2671 Procedure A
- ★ Excellent abrasion protection for military industries

Standard

- ★ AMS-DTL-23053/1 Class 1 & 2 (Formerly MIL-DTL-23053/1 Class 1 and Class 2)
- ★ RoHS Compliant

Specification Values

Properties		Test Methods	Values
Physical	Unaged	Tensile strength	Min. 1500 psi
		Elongation	Min. 225%
		Tensile strength @200% Elongation	Max. 1500 psi
	Aged	Tensile strength	Min. 1200 psi
		Elongation	Min. 175%
	Fluid Resist.	Tensile strength	Min. 1000 psi
		Elongation	Min. 175%
		Dielectric strength	Min. 250Volts/mil
Low temperature flex		-70°Cx4hrs	No cracks
Heat shock		200°Cx4hrs	No cracks, flowing, or dripping
Electrical	Dielectric strength	ASTM D2671	Min. 300Volts/mil
	Volume resistivity	ASTM D876	Min. $1 \times 10^{11} \Omega$ - cm
Chemical	Copper corrosion	150°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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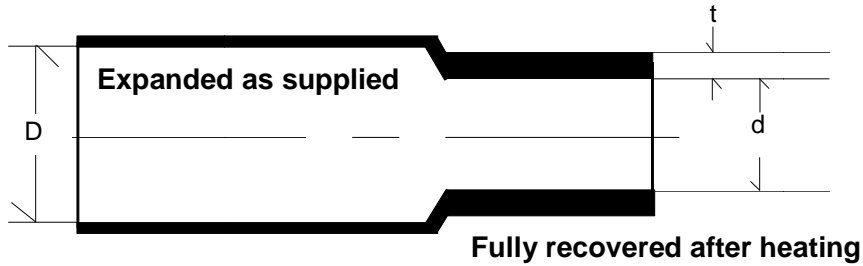
Dunbar Products LLC
Your Stocking Partner for Quality Components

P.O. Box 112218, Carrollton, Texas 75011-2218
Tel: (469) 568-0800
Fax: (469) 568-0808



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Product Dimensions

Minimum Shrink Temperature: 135°C

Size	Expanded		Recovered				Standard Spool Length
	Internal Diameter (Minimum) (D)		Internal Diameter (Maximum) (d)		Minimum Total Wall Thickness (t)		
Inch Size	In.	mm	In.	mm	In.	mm	Ft.
1/8"	0.125	3.2	0.062	1.57	0.028	0.70	500
3/16"	0.188	4.8	0.093	2.36	0.030	0.75	250
1/4"	0.250	6.4	0.143	3.6	0.035	0.89	250
3/8"	0.375	9.5	0.211	5.4	0.040	1.01	100
1/2"	0.500	12.7	0.286	7.3	0.048	1.21	100
5/8"	0.625	15.9	0.357	9.1	0.052	1.32	100
3/4"	0.750	19.1	0.428	10.9	0.057	1.44	100
7/8"	0.875	22.2	0.500	12.7	0.065	1.65	100
1"	1.00	25.4	0.570	14.5	0.070	1.70	100
1-1/4"	1.25	31.8	0.714	18.1	0.087	2.20	100
1-1/2"	1.5	38.1	0.857	21.8	0.095	2.41	100

Standard Color: Black

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