



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. 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
- ★ Operating temperature range: - 70°C to 121°C
- ★ Flammability: MIL-DTL-23053/1 Class 1 and Class 2
- ★ Minimum shrink temperature: 135°C

Standard

- ★ MIL-DTL-23053/1 Class 1 and Class 2

Specification Values

Properties		Test Methods	Values	
Physical	Unaged	Tensile strength	Min. 1.1kgf/mm ²	
		Elongation	Min. 250%	
	Aged	Tensile strength	ASTM D 638	Min. 0.85kgf/mm ²
		Elongation	150°C/168hrs	Min. 200%
	Density		ASTM D-792	Max.1.40g/cm ² @23°C
	Heat shock		MIL-I-23053	Pass @200°Cx4hrs
Low temperature flex		MIL-I-23053	No crack @-75°C	
Electrical	Dielectric strength		ASTM D 876 Min. 300V / mil	
	Volume resistivity		ASTM D 876 Min. 1x10 ¹¹ Ω - cm	
Chemical	Copper corrosion		MIL-I-23053 150°C/16hrs No corrosion	
	Fluid resistance			
	Tensile strength		MIL-I-23053	Min. 0.85kgf/mm ²
	Elongation		23°C/24hrs	Min. 200%
	Dielectric strength			Min. 250V/mil
Flammability		MIL-I-23053	Pass	

Rev. June 2009



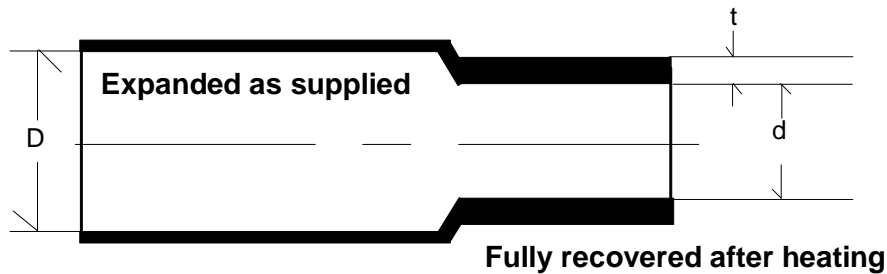
Dunbar Associates
Your Stocking Partner for Quality Components

P.O. Box 112218, Carrollton, Texas 75011-2218
Tel: (469) 568-0800
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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
2"	2.0	50.8	1.14	29.0	0.110	2.79	100
3"	3.0	76.2	1.71	43.4	0.125	3.17	100

Standard Color: Black

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