

M23053/4 C3

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


Applications

MIL-DTL-23053/4 C3 is a flexible, high shrink ratio, flame retardant heat shrinkable polyolefin tube with a meltable adhesive which flows when heated. It is needed to seal and protect a wide variety of electrical applications, including wire splices, breakouts, and connectors-to-cable transitions.

Features

- ★ In stock for immediate shipments
- ★ Shrink ratio: 66% or more in the radial direction, 10% or less in the axial direction
- ★ Continuous operating temperature: - 55°C to 110°C
- ★ Flammability: UL VW-1, CSA OFT (Jacket only, except clear)
- ★ Excellent electrical properties
- ★ High resistance to chemicals and oils

Standard

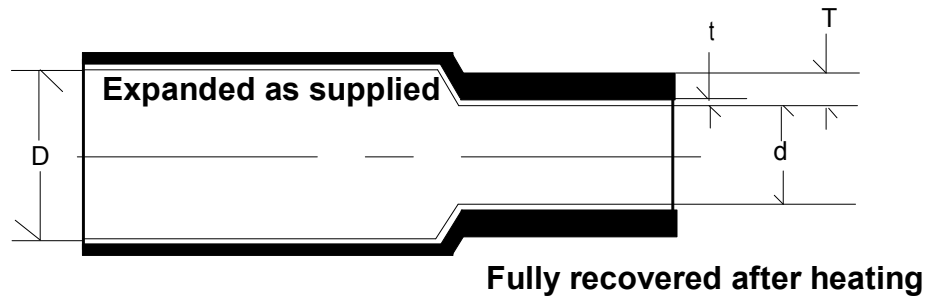
- ★ MIL-DTL-23053/4 Class 3
- ★ UL 224 (File Number: E319314) 
- ★ RoHS Compliant

Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	Min. 1.06 kgf/mm ² (1,500 psi)	
		Elongation	Min. 200%	
	Aged	Tensile strength	158°C/168 hrs	Min. 75% of the value of unaged specimens
		Elongation		Min. 100%
	Deformation		158°C/1 hr	Max. 50%
	Heat shock		250°C/4 hrs	No crack
	Cold bend		- 55°C/4 hrs	No crack
	Flexibility		158°C/168 hrs	No crack
Secant Modulus		ASTM D 2671	Max. 17.59 kgf/mm ² (25,000 psi)	
Electrical	Dielectric strength		ASTM D 2671	Min. 15.8kV/1 minute
	Volume resistivity		ASTM D 257	Min. 10 ¹⁴ Ω - cm
Chemical	Copper corrosion		175°C/16 hrs	No corrosion
	Copper stability		158°C/168 hrs	No sign of degradation
	Flammability		UL VW-1	Pass – jacket only

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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)		Wall Thickness Adhesive Wall (Nominal) (t)		
	In.	mm	In.	mm	In.	mm	In.	mm	
Inch Size									Ft.
1/8"	0.125	3.2	0.038	0.98	0.040	1.00	0.015	0.40	4
3/16"	0.188	4.8	0.060	1.52	0.040	1.00	0.019	0.50	4
1/4"	0.251	6.4	0.079	2.00	0.040	1.00	0.023	0.59	4
3/8"	0.374	9.5	0.118	3.00	0.047	1.20	0.025	0.65	4
1/2"	0.503	12.8	0.156	3.98	0.056	1.43	0.031	0.79	4
3/4"	0.767	19.5	0.236	6.00	0.078	2.00	0.042	1.09	4
1"	1.000	25.4	0.314	8.00	0.079	2.03	0.037	0.93	4
1-1/2"	1.570	40.0	0.510	12.95	0.090	2.30	0.047	1.20	4