

M23053/4 C1

3:1 HIGH SHRINK RATIO, DUAL-WALL, SEMI-RIGID, POLYOLEFIN TUBING


Applications

MIL-DTL-23053/4 C1 is a semi-rigid, high shrink ratio, flame retardant heat shrinkable polyolefin tube with a meltable adhesive which flows when heated. It is suitable for a wide range of applications such as encapsulation of cables, splices and components.

Features

- ★ Shrink ratio: 67% or more in the radial direction, 10% or less in the axial direction
- ★ Continuous operating temperature: - 55°C to 125°C
- ★ Flammability: UL VW-1, CSA OFT (Jacket only)
- ★ Excellent electrical properties
- ★ High resistance to chemicals and oils

Standard

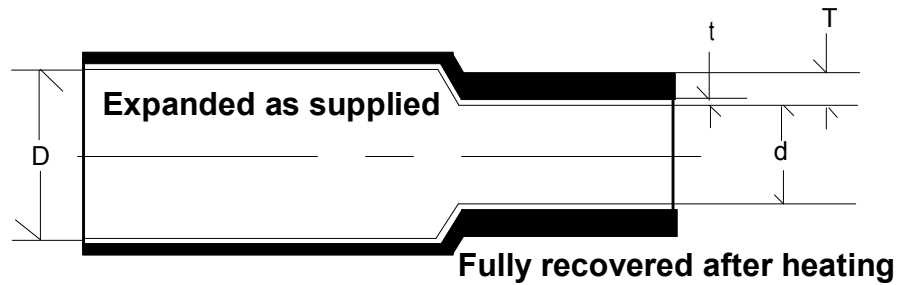
- ★ MIL-DTL-23053/4 Class 1
- ★ UL 224 (File Number: E319314) 

Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	Min. 1.06 kgf/mm ²	
		Elongation	Min. 200%	
	Aged	Tensile strength	158°C/168 hrs	Min. 75% of the value of unaged specimens
		Elongation		Min. 100%
	Deformation		125°C/1 hr	Max. 50%
	Heat shock		136°C/1 hrs	No crack
	Cold bend		- 30°C/1 hrs	No crack
	Flexibility		158°C/168 hrs	No crack
Secant Modulus		-	Max. 17.64 kgf/mm ²	
Electrical	Dielectric strength		-	
	Volume resistivity		-	Min. 10 ¹⁴ Ω - cm
Chemical	Copper corrosion		158°C/168 hrs	No corrosion
	Copper stability		158°C/168 hrs	No sign of degradation
	Flammability		VW-1	Pass

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Product Dimensions

Minimum Shrink Temperature: 120°C

Size	Expanded		Recovered					
	Internal Diameter Minimum (D)		Internal Diameter Maximum (d)		Minimum Total Wall Thickness (Total Wall) (T)		Minimum Wall Thickness (Adhesive Wall) (t)	
	In.	Mm	In.	Mm	In.	mm	In.	mm
1/8	0.125	3.2	0.023	0.58	0.038	0.97	0.020	0.50
3/16	0.187	4.8	0.060	1.52	0.043	1.09	0.025	0.63
1/4	0.250	6.4	0.080	2.03	0.047	1.19	0.027	0.68
3/8	0.375	9.5	0.135	3.43	0.050	1.27	0.030	0.76
1/2	0.500	12.7	0.195	4.95	0.055	1.40	0.035	0.89
3/4	0.750	19.1	0.313	7.95	0.065	1.65	0.040	1.02
1	1.000	25.4	0.400	10.2	0.075	1.91	0.040	1.02