

M23053/15 C2

3:1 SHRINK RATIO, FLEXIBLE, SEMI-RIGID, MEDIUM WALL, FLAME-RETARDANT, ADHESIVE-LINED POLYOLEFIN TUBING


Applications

MIL-DTL-23053/15 C2 is designed to provide reliable performance as well as excellent mechanical and environmental protection. MIL-DTL-23053/15 C2 is designed for sealing and insulation of cable splices, electrical connections, terminations and jacket repairs. Ideally suited for shipboard, submersible, direct-buried installations, or wherever tougher mechanical protection is required in an electrical insulation system.

Features

- ★ Operating temperature range: -55°C ~ 125°C
- ★ Shrink ratio of 3:1 – 67% or more in the radial direction
- ★ Exceptional flexibility prior to recovery
- ★ Minimum shrink temperature: 120°C
- ★ Flammability: VTFT (IEEE 383)
- ★ High Carbon Black composition to resist UV radiation
- ★ RoHS Compliant

Standard

- ★ UL 224 (File Number: E319303) 
- ★ MIL-DTL-23053/15 Class 1 & Class 2
- ★ DNV File No. E-7977, E-7978
- ★ ABS File No. 02-SE23285-X

Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	ASTM D 412	Min. 1.06 kgf/mm ²
		Elongation	ASTM D 2671	Min. 200%
	Aged	Tensile strength	ASTM D 412	Min. 0.76 kgf/mm ²
		Elongation	ASTM D 2671	Min. 100%
	Low temperature flexibility		ASTM D 2671	No crack @ -55° C x 4 hrs
	Heat shock		ASTM D 2671	No crack @ 225° C x 4 hrs
	Thermal endurance		IEC 60216	TI/120° C
Electrical	Dielectric strength		ASTM D 149 & 2671	Min. 7.9 kV/mm
	Volume resistivity		IEC 60093	Min. 10 ¹³ Ω - cm
Chemical	Copper corrosion		ASTM D 2671	No corrosion
	Water absorption		ASTM D 570	Max 0.5% @ 23° C/24 hrs
	Resistance to mold		ASTM G 21	Pass rating 1
	Fluid resistance	Retention of Tensile Strength	ASTM D 412	ASTM No. 2 OR IRM 902 oil @ 70° C Min. 0.53 kgf/mm ² Min. 100%
Retention of Elongation		ASTM D 2671		

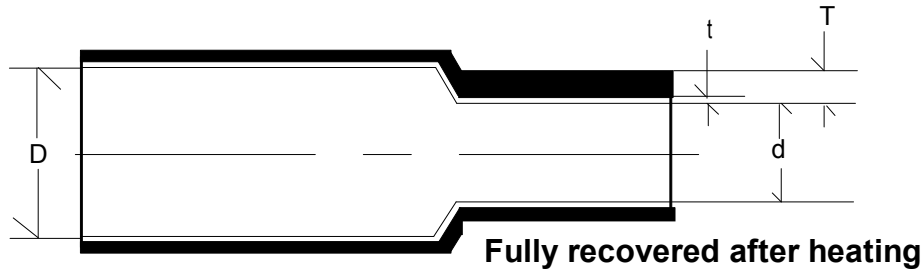
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Available Colors



Black Red



Product Dimensions Minimum Shrink Temperature: 120°C

Mil-Spec M23053/15- X = Color Code	Expanded		Recovered	
	Nominal Size (mm)	Internal Diameter (min.) (D)	Internal Diameter (max.) (d)	Total Wall Thickness (min.) (t)
	7	7.0	2.5	0.80
201-X	10	10.2	3.8	1.52
202-X	18	19.1	5.6	1.52
203-X	27	27.9	9.5	2.67
204-X	33	33.0	9.5	2.67
205-X	38	38.1	12.7	3.05
206-X	45	43.2	12.7	3.56
208-X	50	50.8	19.1	3.60
207-X	70	68.6	22.9	3.44
	75	75.0	31.8	2.64
	100	100.0	44.5	2.64
	115	114.0	44.5	3.30
	140	140.0	42.0	3.50

Per M23053/15 – "As Supplied" ID is for uncoated product. An allowance may be necessary depending on coating.