

Polyolefin heat shrink tubing

FITCOTUBE® FT800

Dual-wall polyolefin heat shrink tubing with high shrink ratio and hot melt adhesive coating. Insulation, protection and sealing of connectors, solder and crimp splices and electrical components in areas where liquids are present. Corrosion protection of metal components (tubing, pipes etc.).

- Operating temperature:** - 55°C to +125°C, short time up to +250°C
- Shrink temperature:** + 110° C
- Shrink ratio:** 3:1 & 4:1
- Standard colors:** Black
- Specification (3:1 & 4:1):** SAE-AS23053/4 class 3, UL 224 125°C 600V ATF (File No. E75077)
- Specification (3:1):** CSA C 22.2 No. 198.1: 125°C 600V ATF (File No. 033298-0-000)



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
3: 1			
FT800-3/1	3.00	1.00	1.00
FT800-4.8/1.5	4.80	1.50	1.10
FT800-6.1/2	6.10	2.00	1.00
FT800-9.5/3	9.50	3.00	1.30
FT800-11.9/4.1	11.9	4.10	1.80
FT800-19.1/6	19.10	6.00	1.80
FT800-23.9/8.1	23.90	8.10	2.50
FT800-39.9/13	39.90	13.00	2.50
4: 1			
FT800-4/1	4.00	1.00	1.00
FT800-8/2	8.00	2.00	1.00
FT800-12/3	12.00	3.00	1.40
FT800-16/4	16.00	4.00	1.80
FT800-24/6	24.00	6.00	2.50
FT800-32/8	32.00	8.00	2.50
FT800-52/13	52.00	13.00	2.50

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Packaging: Cut-Lengths of 1200 mm in bags/boxes, spools and non-standard sizes: On request

Attributes	Testing	Requirements	Value
Mechanical			
Tensile strength	ASTM D 638	Min. 10.4 MPa	≥ 15 MPa
Ultimate elongation	ASTM D 638	Min. 200 %	≥ 350 %
Longitudinal change	SAE-AS23053	+1 % bis -15%	≥ -7 %
Elastic modulus	ASTM D 882	Max. 173 MPa	≤ 80 MPa
Thermal			
Low temperature flexibility (4h x -55° C)	SAE-AS23053	No cracking	Pass
Short-term aging (4h x 250° C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Flammability	UL224	All Tubing Flame Test	Pass
Copper corrosion (16h x 158° C)	SAE-AS23053	No corrosion	Pass
Color stability (24h x 175° C)	SAE-AS23053	No changes	Pass
Electrical			
Dielectric strength	ASTM D 876	Min. 11.8 kV/mm	≥ 20 kV/mm
Volume resistance	ASTM D 876	Min. 10 ¹² Ωxcm	≥ 10 ¹⁴ Ωxcm
Breakdown test (2,5kV x 60s)	UL 224	No breakdown	Pass
Chemical			
Water absorption	ASTM D 570	Max. 1 %	≤ 0.5 %
Liquid resistance (24h x 23° C)	SAE-AS23053	Min. 6,2 MPa (tensile strength) Min. 7,9 kV/mm (dielectric strength)	Pass