

Polyolefin heat-shrink tubing

FITCOTUBE® FT800

Flexible, radiation - cross-linked heat-shrink tubing coated with adhesives. Suitable for moisture- and waterproof encapsulation of wires, cables, pinching- and plug connections as well as other electrical and mechanical components.

Operating temperature: - 55°C to + 125°C, short term up to + 250°C

Shrink temperature: + 110° C

Shrink ratio: 3 : 1

Standard colors: Black

Approvals: UL File E191539, CSA



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
3 : 1			
FT800-3/1	3.00	0.60	0.95
FT800-4.5/1.5	4.80	1.50	1.10
FT800-6/2	6.40	2.00	1.20
FT800-9/3	9.50	3.00	1.30
FT800-12/4	12.70	4.00	1.40
FT800-19/6	19.00	6.00	1.80
FT800-24/8	24.00	8.00	2.50
FT800-40/13	40.00	13.00	2.50

Packaging: 1.2 meter lengths. Special sizes on request. Cut lengths on request.

Processing note: Care for clean and straight cutting edges.
Start shrinkage on the end.
Pre-heat metal body.

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Attributes	Testing		Value
Mechanical			
Tensile strength	ASTM D 638	min. 10.4 MPa	≥ 15 MPa
Ultimate elongation	ASTM D 638	min. 200 %	≥ 350 %
Longitudinal change	SAE-AMS-DTL-23053	+ 1 % to - 15 %	≥ - 7 %
Elastic modulus	ASTM D 882	max. 173 MPa	≥ 80 MPa
Thermal			
Low temperature flexibility (- 55°C x 4 h)	SAE-AMS-DTL-23053	no cracking	pass
Short-term aging (250° C x 4 h)	SAE-AMS-DTL-23053	no cracking, flowing or dripping	pass
Flammability	ASTM D 2671 (B)	max. 60 sec.	pass
Copper corrosion (158°C x 16 h)	SAE-AMS-DTL-23053	no corrosion	pass
Color stability (175 °C x 24h)	SAE-AMS-DTL-23053	no changes	pass
Electrical			
Dielectric strength	ASTM D 876	min. 11.8 kV/mm	≥ 20 kV/mm
Volume resistivity	ASTM D 876	min. 10 ¹² Ω/cm	≥ 10 ¹⁴ Ω/cm
Breakdown test (2.5 kV x 60 s)	UL 224	no breakdown	pass
Chemical			
Water absorption	ASTM D 570	max. 1 %	≥ 0.5 %
Liquid resistance (23°C x 24h)	SAE-AMS-DTL-23053	min. 6.2 MPa (tensile strength) min. 7.9 kV/mm (dielectric strength)	pass