

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:** 4 : 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.)
<b>4 : 1</b>			
FT800-4/1	4.00	1.00	1.00
FT800-8/2	8.00	2.00	1.20
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	2.20
FT800-32/8	32.00	8.00	2.50
FT800-52/13	52.00	13.00	2.55

**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
<b>Mechanical</b>			
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
<b>Thermal</b>			
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
<b>Electrical</b>			
Dielectric strength	ASTM D 876	min. 11.8 kV/mm	≥ 20 kV/mm
Volume resistivity	ASTM D 876	min. 10 <sup>12</sup> Ω/cm	≥ 10 <sup>14</sup> Ω/cm
Breakdown test (2.5 kV x 60 s)	UL 224	no breakdown	pass
<b>Chemical</b>			
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