

Polyolefin heat-shrink tubing

FITCOTUBE[®] FT100 clear

High-quality, flexible, flame resistant heat-shrink tubing universally applicable. Use as insulation, mechanical relief of wires and cables, protection against environmental influences e. g. for cable harnesses.

Operating temperature: - 55°C to + 135°C

Shrink temperature: + 75° C

Shrink ratio: 2 : 1

Standard colors: clear



Standard dimensions:

Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT100-120	1.20	0.60	0.41
FT100-160	1.60	0.80	0.43
FT100-240	2.40	1.20	0.51
FT100-320	3.20	1.60	0.51
FT100-480	4.80	2.40	0.51
FT100-640	6.40	3.20	0.64
FT100-950	9.50	4.80	0.64
FT100-1270	12.70	6.40	0.64
FT100-1910	19.10	9.50	0.76
FT100-2540	25.40	12.70	0.89
FT100-3800	38.10	19.10	1.02
FT100-5100	50.80	25.40	1.14
FT100-7600	76.20	38.10	1.27
FT100-10200	101.60	50.80	1.40

Packaging: On spools. Special sizes, cut lengths or printed tubing 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	Requirements	Value
Mechanical			
Tensile strength	ASTM D 638	min. 10.4 MPa	≥ 20 MPa
Ultimate elongation	ASTM D 638	min. 200 %	≥ 450 %
Longitudinal change	SAE-AMS-DTL-23053	± 5%	± 5 %
Specific density	ASTM D 792	max. 1.0	0.95
Secant modulus	ASTM D 882	max. 173 MPa	≤ 80 Mpa
Thermal			
Transparency (175°C x 24 h)	SAE-AMS-DTL-23053	Legible label	pass
Elongation after ageing (175°C x 168 h)	SAE-AMS-DTL-23053	min. 100 %	≥ 250 %
Heat Shock (250°C x 4 h)	SAE-AMS-DTL-23053	no cracking, flowing or dripping	pass
Copper corrosion (175°C x 16 h)	SAE-AMS-DTL-23053	no corrosion	pass
Electrical			
Dielectric strength	ASTM D 876	min. 19.7 kV/mm	≥ 30 kV/mm
Volume resistivity	ASTM D 876	min. 10 ¹⁴ Ω/cm	≥ 10 ¹⁵ Ω/cm
Breakdown test (2.5 kV x 60 s)	UL 224	no breakdown	pass
Fluid resistance (23°C 25 h)	SAE-AMS-DTL-23053	pass	pass
Fungus resistance	SAE-AMS-DTL-23053	ASTM G 21	pass
Water absorption	ASTM D 570	max. 0.5 %	≤ 0,2%