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.
FITCOTUBE® FT100 clear is halogen-free.

Operating temperature: -55°C to +135°C, short time +250°C

Shrink temperature: +110°C

Shrink ratio: 2 : 1

Standard colors: Clear

Approvals/Specifications: Mil Spec. M23053/5 class 2

Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT100-120	1.20	0.60	0.34 – 0.48
FT100-160	1.60	0.80	0.36 – 0.50
FT100-240	2.40	1.20	0.44 – 0.58
FT100-320	3.20	1.60	0.44 – 0.58
FT100-480	4.80	2.40	0.44 – 0.58
FT100-640	6.40	3.20	0.56 – 0.70
FT100-950	9.50	4.75	0.56 – 0.70
FT100-1270	12.70	6.40	0.56 – 0.70
FT100-1910	19.10	9.50	0.70 – 0.84
FT100-2540	25.40	12.70	0.76 – 1.00
FT100-3810	38.10	19.10	0.87 – 1.17
FT100-5080	50.80	25.40	0.96 – 1.30
FT100-7620	76.20	38.10	1.10 – 1.50
FT100-10160	101.60	50.80	1.18 – 1.62

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 %
Secant modulus	ASTM D 882	max. 173 MPa	≤ 80 MPa
Specific density	ASTM D 792	max. 1.0	0.95
Thermal			
Transparency (24h x 175°C)	SAE-AS23053	Legible label	Pass
Low temperature flexibility (4h x -55°C)	SAE-AS23053	No cracking	Pass
Long term aging (168h x 175° C)	SAE-AS23053	Min. 100 %	≥ 250 %
Heat shock (4h x 250°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Copper corrosion (16h x 175°C)	SAE-AS23053	No corrosion	Pass
Electrical			
Dielectric strength	ASTM D 876	Min. 19.7 kV/mm	≥ 30 kV/mm
Volume resistance	ASTM D 876	Min. 10^{14} Ωxcm	≥ 10^{15} Ωxcm
Nominal voltage	-	-	600V
Breakdown test (60s x 2,5 kV)	UL 224	No breakthrough	Pass
Chemical			
Water absorption	ASTM D570	Max. 0.5 %	≤ 0.2%
Fungus resistance	SAE-AS23053	ASTM G 21	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 6.9 MPa (Tensile strength)	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 15.8 kV/mm (Dielectric strength)	Pass

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