

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT100

High-quality, flexible, flame resistant heat-shrink tubing universally applicable. Use as insulation, mechanical relief of wires and cables, protection against environmental influences and labelling via different colors.

- Operating temperature:** - 55°C to + 135°C, short time + 250°C
- Shrink temperature:** + 90° C
- Shrink ratio:** 2: 1
- Standard colors:** Black, White, Red, Yellow, Blue and other colors on request.
- Approvals:** UL 224 125°C 600V VW-1 (File No. E191514), CSA



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. 14.0 MPa	≥ 14 MPa
Ultimate elongation	ASTM D 638	min. 200 %	≥ 400 %
Longitudinal change	SAE-AMS-DTL-23053	max. ± 5%	0 - 2 %
Secant modulus	ASTM D 882	max. 173 MPa	65 MPa
Specific density	ASTM D 792	1.35	1.34
Thermal			
Low temperature flexibility (-55°C x 4 h)	SAE-AMS-DTL-23053	no cracking	pass
Long-term ageing (175°C x 168 h)	SAE-AMS-DTL-23053	min. 100 % ageing	420 %
Short-term ageing (250°C x 4 h)	SAE-AMS-DTL-23053	no cracking, flowing or dripping	pass
Color stability (175°C x 24 h)	SAE-AMS-DTL-23053	unchanged	pass
Copper Corrosion (175°C x 16h)	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	3.1 x 10 ¹⁴ Ω/cm
Nominal voltage	UL 224	-	600 V
Chemical			
Fire behavior	UL 224	VW-1	pass
Water absorption	ASTM D 570	max. 0.5 %	0.25 %
Fungus resistance	SAE-AMS-DTL-23053	ASTM G21	pass
Ozone resistance	NF F 00-608	no cracking, no perspiring	pass
Fluid resistance (23°C 24 h)	SAE-AMS-DTL-23053	Min. 6.9 MPa (Tensile strength)	7.25 – 14 MPa