

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT101

Flexible, self-extinguishing, bicolored extruded heat-shrink tubing. Use as insulation and marking of cables, wires and ground conductors.

Operating temperature: -55°C to +135°C, short time +250°C
Shrink temperature: +90° C
Shrink ratio: 2:1
Standard colors: Yellow-Green
Specification: 224 125°C 600V VW-1 (File No. E191514)



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
2:1			
FT101-320	3.20	1.60	0.51
FT101-480	4.80	2.40	0.51
FT101-640	6.40	3.20	0.64
FT101-950	9.50	4.80	0.64
FT101-1270	12.70	6.40	0.64
FT101-1910	19.10	9.50	0.76
FT101-2540	25.40	12.70	0.89
FT101-3810	38.10	19.10	1.02
FT101-5080	50.80	25.40	1.14

Packaging: On spools. Special sizes cut lengths 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	≥ 14 MPa
Ultimate elongation	ASTM D 638	Min. 200%	≥ 400 %
Longitudinal change	SAE-AMS-DTL-23053	± 5%	0%
Density	ASTM D 792	-	1,34
Elastic modulus	ASTM D 882	Max. 173 MPa	65 MPa
Thermal			
Low temperature flexibility (4h x -55°C)	SAE-AMS-DTL-23053	No cracking	Pass
Elongation after long-term aging (168h x 175°C)	SAE-AMS-DTL-23053	Min. 100%	420%
Short-term aging (4h x 250°C)	SAE-AMS-DTL-23053	No cracking, flowing or dripping	Pass
Flammability	UL 224	VW-1	Self-extinguishing
Copper Corrosion (16h x 175°C)	SAE-AS23053	No corrosion	Pass
Colour stability (24h x 158°C)	SAE-AS23053	MIL-STD-104	Pass
Electrical			
Dielectric strength	ASTM D 876	19,7 kV/mm	37 kV/mm
Volume resistivity	ASTM D 876	Min. 10 ¹⁴ Ωxcm	3.1 x 10 ¹⁴ Ωxcm
Nominal voltage	UL 224	600V	-
Breakdown test (60s x 2.5kV)	UL 224	No breakthrough	Pass
Chemical			
Water absorption	ASTM D 570	Max. 0.5%	0.25%
Liquid Resistance (24h x 24°C)	SAE-AS23053	Min. 6.9 MPa (tensile strength)	7.25 to 16.5 MPa
Fungus resistance	SAE-AS23053	ASTM G 21	Pass
Ozone resistance	NF F 00-608	No tearing or sweating	Pass