

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT100

High-quality, flexible, self-extinguishing 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 Other colors on request
Approvals:	UL 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.)
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	0,57 – 0,71
FT100-950	9.50	4.75	0,57 – 0,71
FT100-1270	12.70	6.40	0,57 – 0,71
FT100-1910	19.10	9.50	0,69 – 0,83
FT100-2540	25.40	12.70	0,77 – 1,01
FT100-3810	38.10	19.10	0,87 – 1,17
FT100-5100	50.80	25.40	0,97 – 1,31
FT100-7620	76.20	38.10	1,07 – 1,47
FT100-10200	101.60	50.80	1,18 – 1,62

Packaging: On spools. Special sizes cut lengths or printed tubing on request.

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Properties	Test Method	Requirements	Typical Value
Mechanical			
Tensile strength	ASTM D 638	Min. 14.0 MPa	≥ 14 MPa
Ultimate elongation	ASTM D 638	Min. 200 %	≥ 400 %
Longitudinal change	SAE-AS23053	Max. ± 5%	0 to -2 %
Secant modulus	ASTM D 882	Max. 173 MPa	65 MPa
Specific density	ASTM D 792	Max. 1.35	1.34
Thermal			
Low temperature flexibility (4h x -55°C)	SAE-AS23053	No cracking	Pass
Heat shock (4h x 250°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Elongation after long term aging (168h x 175°C)	SAE-AS23053	No cracking	Pass
Flammability	UL 224	VW-1	Pass
Electrical			
Dielectric strength	ASTM D 876	Min. 19.7 kV/mm	≥ 30 kV/mm
Volume resistance	ASTM D 876	Min. $10^{14} \Omega \times \text{cm}$	$3.1 \times 10^{14} \Omega \times \text{cm}$
Nominal voltage	UL 224	-	600 V
Breakdown test	UL 224	No breakthrough	Pass
Chemical			
Water absorption	ASTM D 570	Max. 0.5 %	0.25 %
Fungus resistance	SAE-AS23053	ASTM G21	Pass
Ozone resistance	NF F 00-608	No cracking or perspiring	Pass
Colour stability (24h x 175°C)	SAE-AS23053	No change	Pass
Copper corrosion (16h x 175°C)	SAE-AS23053	No corrosion	Pass
Fluid resistance (24h x 23°C)	SAE-AS23053	Min. 6.9 MPa (Tensile strength)	7.25 – 14 MPa