

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT100

FITCOTUBE® FT100 is a high-quality, flexible, flame retardant heat-shrink tubing made of irradiated cross-linked polyolefin and is universally applicable. Use as insulation, mechanical relief of wires and cables, protection against environmental influences and labelling via different colors. Applicable for various industries such as the automotive, military, aerospace and electronics industries.

Operating temperature:	-55°C to + 135°C
Min. shrink temperature:	+90° C
Shrink ratio:	2 : 1
Standard colors:	Black, White, Red, Yellow, Blue Other colors on request
Approvals/Specifications:	UL 224 (125°C, 600V, VW-1, File No. E191514); Mil Spec. M23053/5 class 1 & 3



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

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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.

Properties	Testmethod	Requirements	Typical Value
Mechanical			
Tensile strength	ASTM D 638	> 10.4 MPa	13.4 MPa
Elongation	ASTM D 638	> 200 %	410 %
Specific density	ASTM D 792	≤ 1.35	1.32
Longitudinal change	SAE-AS23053	0 ±5%	0 - -2%
Thermal			
Low temperature flexibility (4h x -55°C)	SAE-AS23053S	No cracking	Pass
Heat shock (4h x 250°C)	SAE-AS23053S	No cracking	Pass
Elongation after long term aging (168h x 175°C)	SAE-AS23053S	≥100%	410%
Flammability	UL224	VW-1	Pass
Electrical			
Dielectric strength	ASTM D 876	≥ 19.7 kV/mm	≥ 37.1 kV/mm
Volume resistance	ASTM D 876	≥ 10 ¹⁴ Ω x cm	3.1 x 10 ¹⁵ Ω x cm
Chemical			
Water absorption (23°C / 24h)	ASTM D 570	≤ 0.5 %	0.28 %
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) Tensile strength Dielectric strength	SAE-AS23053	≥ 6.9 MPa ≥ 15.8 kV/mm	13.1 MPa 30.5 kV/mm