

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

> 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	Requirements	Typical Value
Mechanical		
Tensile strength	> 10.4 MPa	13.4 MPa
Elongation	> 200 %	410 %
Longitudinal change	≤ ± 5%	0 to ±5 %
Specific density	≤ 1.35	1.32
Thermal		
Low temperature flexibility (4h x -55°C)	No cracking	Pass
Heat shock (4h x 250°C)	No cracking	Pass
Elongation after long term aging (168h x 175°C)	≥100%	410%
Flammability (UL224)	VW-1	Pass
Electrical		
Dielectric strength	> 19.7 kV/mm	≥ 37.1 kV/mm
Volume resistance	> 10 ¹⁴ Ω x cm	3.1 x 10 ¹⁵ Ω x cm
Chemical		
Water absorption	≤ 0.5 %	0.28 %
Colour stability (24h x 175°C)	No change	Pass
Copper corrosion (16h x 175°C)	No corrosion	Pass
Fluid resistance (24h x 23°C) Tensile strength Dielectric strength	≥ 6.9 MPa 15.8 kV/mm	13.1 MPa 30.5 kV/mm