

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT500

Flexible, flame-retardant heat-shrink tubing universally applicable. Use as encasement, insulation and labelling of wires and cables in predominantly commercial industrial use.

Operating temperature:	- 55°C to + 125°C short time up to + 200°C
Shrink temperature:	+ 90° C
Shrink ratio:	2: 1
Standard colors:	Black, Blue, Red, Yellow, Green, White and other colors on request.



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT500-120	1.20	0.60	0.41
FT500-160	1.60	0.80	0.43
FT500-240	2.40	1.20	0.51
FT500-320	3.20	1.60	0.51
FT500-480	4.80	2.40	0.51
FT500-640	6.40	3.20	0.64
FT500-950	9.50	4.80	0.64
FT500-1270	12.70	6.40	0.64
FT500-1900	19.10	9.50	0.76
FT500-2540	25.40	12.70	0.89
FT500-3200	31.80	15.90	1.02
FT500-3800	38.10	19.10	1.02
FT500-5100	50.80	25.40	1.14
FT500-7600	76.20	38.10	1.27
FT500-10200	101.60	50.80	1.40

Packaging:	On spools, cut lengths or printed tubing on request. Special sizes 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	13 MPa
Ultimate elongation	ASTM D 638	Min. 200%	400 %
Longitudinal change	SAE-AMS-DTL-23053	-5% ± 10%	- 5 %
Specific density	ASTM D 792	Max. 1,35	1.33
Elastic modulus	ASTM D 882	Max. 173 MPa	110 MPa
Thermal			
Low temperature flexibility (- 55° C x 4h)	SAE-AMS-DTL-23053	no cracking	pass
Elongation after long-term aging (150° C x 168h)	SAE-AMS-DTL-23053	Min. 100%	210 %
Short term ageing (225° C x 4h)	SAE-AMS-DTL-23053	no crack, flowing or dripping	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	≥ 25 kV/mm
Volume resistivity	ASTM D 876	Min. 10 ¹⁴ Ω*cm	4.7 x 10 ¹⁴ Ω/cm
Chemical			
Flammability	ASTM D 2671	Procedure B	pass
Water absorption	ASTM D 570	Max. 0,5%	0.35 %