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 + 225°C

Shrink temperature: + 90° C

Shrink ratio: 2 : 1

Standard colors: Black, Blue, Green, Red, White, Yellow
Other colors on request

RoHS

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	19.00	9.50	0.76
FT500-2540	25.40	12.70	0.89
FT500-3200	32.00	16.00	1.02
FT500-3800	38.00	19.00	1.02
FT500-5100	51.00	26.00	1.14
FT500-7600	76.00	38.00	1.27
FT500-10200	102.00	51.00	1.40

Special sizes on request

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Packaging: On spools, 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	Test Method	Requirements	Typical Value
Mechanical			
Tensile strength	ASTM D 638	Min. 10.4 MPa	13 MPa
Ultimate elongation	ASTM D 638	Min. 200%	400%
Longitudinal change	SAE-AS23053	- 5% ± 10%	- 5%
Elastic modulus	ASTM D 882	Max. 173 MPa	110 MPa
Specific density	ASTM D 792	Max. 1.35	1.33
Thermal			
Low temperature flexibility (4h x -55°C)	SAE-AS23053	No cracking	Pass
Elongation after long term aging (168h x 150°C)	SAE-AS23053	Min. 100%	210 %
Heat shock (4h x 225°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Flammability	ASTM D 2671	Procedure B	Pass
Electrical			
Dielectric strength	ASTM D 876	Min. 19.7 kV/mm	≥ 25 kV/mm
Volume resistance	ASTM D 876	Min. 10^{14} Ω*cm	$4.7x10^{14}$ Ω*cm
Nominal voltage	-	-	600V
Breakdown test (60s x 2.5kV)	UL 224	No breakthrough	Pass
Chemical			
Water absorption	ASTM D 570	Max. 0.5%	0.35 %
Copper corrosion (16h x 175°C)	SAE-AS23053	No corrosion	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 6,9 MPa (Tensile strength)	Pass