Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT400

Flexible, flame resistant Polyolefin-tube with high shrink ratio. Because of the high shrink rate of 4: 1 its particularly suitable for repair of cable assemblies without disassembling any connectors. Protection, insulation and mechanical strain relief of wires, cables and devices with large differences in diameter.

Operating temperature: -55°C to +135°C, short time up to + 250°C

Shrink temperature: +90°C

Shrink ratio: 4: 1

Standard colors: Black
Other colors on request

Approvals/Specifications: Mil Spec. M23053/5 class 1

RoHS

Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after full recovery (max.)	after full recovery (nom.)
FT400-25,4/6,6	25.40	6.60	1.52
FT400-38/9,5	38.00	9.50	1.52
FT400-50,4/12,7	50.40	12.70	1.52
FT400-76,2/19	76.00	19.00	1.52
FT400-101/25,4	101.00	25.40	1.52

Packaging: Up to and including size 5040: 1.2-meter-lengths.
size 7620 and 10160: 0.9-meter-lengths.
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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Properties	Test Method	Requirements	Typical Value
Mechanical			
Tensile strength	ASTM D 638	Min. 10.4 MPa	≥ 12 MPa
Ultimate elongation	ASTM D 638	Min. 200 %	≥ 400 %
Longitudinal change	SAE-AS23053	± 5 %	± 3 %
Elastic 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	Min. 100 %	420 %
Flammability	UL 224	Self-extinguishing	Pass
Electrical			
Dielectric strength	ASTM D 876	Min. 19.7 kV/mm	≥ 37 kV/mm
Volume resistance	ASTM D 876	Min. 10^{14} Ω*cm	3.1 x 10^{14} Ω*cm
Chemical			
Water absorption	ASTM D 570	Max. 0.5 %	0.25 %
Fungus resistance	SAE-AS23053	ASTM G 21	Pass
Color stability (24h x 175°C)	SAE-AS23053	No change	Pass
Copper corrision (16h x 150°C)	SAE-AS23053	No corrision	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 6,9 MPa (Tensile strength)	7.25 - 14 MPa

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