Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT300

Flexible, self-extinguishing, cross-linked polyolefin heat shrink tubing with high shrink ratio. Insulation, protection and mechanical relief of wires, cables, harnesses and connectors with a large difference in diameter. Wide variety of applications. High shrink ratio reduces number of sizes.

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

Shrink temperature: + 90°C

Shrink ratio: 3 : 1

Standard colors: Black, Blue, Red, White, Yellow
Special colors on request

Specification: UL File E191514

Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT300-1,5/0,5	1.50	0.50	0.50
FT300-3/1	3.00	1.00	0.60
FT300-4,8/1,6	4.80	1.60	0.65
FT300-6/2	6.00	2.00	0.70
FT300-9/3	9.00	3.00	0.80
FT300-12/4	12.00	4.00	0.85
FT300-18/6	18.00	6.00	1.00
FT300-24/8	24.00	8.00	1.20
FT300-40/13	40.00	13.00	1.25

Packaging: On spools. Cut lengths or printed tubing on request.
Special sizes on request.

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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% ± 10%	- 7 %
Elastic modulus	ASTM D 882	Max. 173 MPa	65 MPa
Specific density	ASTM D 792	-	1.34
Thermal			
Low temperature flexibility (4h x -55°C)	UL 224	No cracking	Pass
Elongation after long term aging (168h x 158°C)	SAE-AS23053	Min. 100%	≥ 400%
Heat shock (4h x 250°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Flammability	UL 224	VW-1	Pass
Electrical			
Dielectric strength	ASTM D 876	Min. 19.7 kV/mm	≥ 30 kV/mm
Volume resistance	ASTM D 876	Min. 10^{14} Ωxcm	3,1 x 10^{14} Ωxcm
Nominal voltage	UL 224	-	600V
Breakdown test (60s x 2,5kV)	UL 224	No breakthrough	Pass
Chemical			
Water absorption	ASTM D 570	Max. 0.5%	0.25 %
Fungus resistance	SAE-AS23053	ASTM G 21	Pass
Ozone resistance	NF F 00-608	No cracking or sweating	Pass
Copper corrosion (168h x 158°C)	SAE-AS23053	No corrosion	Pass
Copper stability (168h x 158°C)	SAE-AS23053	Elongation: Min. 100%	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 6.9 MPa (Tensile strength)	7.25 – 14 MPa