Polyolefin heat-shrink tubing

FITCOTUBE® FT300 tr

Flexible, self extinguishing, cross-linked polyolefin heat shrink tubing with high shrink ratio (3:1). Insulation and protection of wires, cables, harnesses and connectors with a large difference in diameter. Wide variety of applications. High shrink ratio reduces number of sizes (stock reduction).

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

Shrink temperature: +110° C

Shrink ratio: 3 : 1

Standard color: clear

RoHS

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
FT300-6/2	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 or cut lengths of 1,2 meters (4 ft).
Cut lengths or printed tubing on request
Special sizes on request.

Processing note: Care for clean and accurate cutting edge. Start shrinkage on the end.
Pre-heat metal body.

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Attributes	Testing	Value
Mechanical		
Longitudinal Change	SAE-AMS-DTL-23053	- 5 %
Specific Gravity	ASTM D 792	0,95
Tensile strength	ASTM D 638	≥ 20 MPa
Elongation at Break	ASTM D 638	≥ 450 %
Secant Modulus	ASTM D 882	≤ 80 MPa
Thermal		
Heat Shock (250°C x 4h)	SAE-AMS-DTL-23053	No cracking, flowing or dripping
Operating Temperature	SAE-AMD-DTL-23053	-55 up to 135°C
Elongation after heat ageing (175°C x 168h)	SAE-AMD-DTL-23053	≥ 250%
Low temperature flexibility (-55 °C x 4h)	SAE-AMD-DTL-23053	No cracking
Copper Corrosion (175°C x 16h)	SAE-AMS-DTL-23053	No corrosion
Clarity Stability (175°C x 16h)	SAE-AMS-DTL-23053	Legible markings
Electrical		
Voltage Rating		600V
Dielectric Voltage Withstand (2,5kV x 60s)	UL224	No breakdown
Dielectric Strength	ASTM D 876	≥ 30 kV/mm
Volume Resistivity	ASTM D 876	10^{15} Ω*cm
Chemical		
Water Absorption	ASTM D 570	0,2 %
Fluid Resistance (after immersion 24 °C x 24h)	SAE-AMS-DTL-23053	≥ 6,9 MPa (Tensile Strength)
Fluid Resistance (after immersion 24 °C x 24h)	SAE-AMS-DTL-23053	≥ 15,8 kV‘/mm (Dieelectric Strength)
Fungus Resistance	SAE-AMS-DTL-23053	Requirement: ASTM G 21 (pass)

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