

Polyolefin Heat-Shrink Tubing

## FITCOTUBE® FT300

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).

<b>Operating temperature:</b>	- 55° C to + 135° C, Short time up to 250°C
<b>Shrink temperature:</b>	90° C
<b>Shrink ratio:</b>	3: 1
<b>Standard colors:</b>	Black, blue, red, white, yellow Special colors on request
<b>Specification:</b>	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 or cut lengths of 1,2 meters.  
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	Requirements	Value
<b>Mechanical</b>			
Tensile strength	ASTM D 638	Min. 10,4 MPa	≥ 12 MPa
Ultimate elongation	ASTM D 638	Min. 200%	≥ 400 %
Longitudinal change	SAE-AMS-DTL-23053	-5% ± 10%	- 7 %
Specific Gravity	ASTM D 792	-	1,34
Elastic Modulus	ASTM D 882	Max. 173 MPa	65 MPa
<b>Thermal</b>			
Heat Shock (250°C x 4h)	SAE-AMS-DTL-23053	No cracking, flowing or dripping	pass
Elongation after heat ageing (158°C x 168h)	SAE-AMD-DTL-23053	Min. 100%	≥ 400%
Shrink Temperature	Shrink curve	full recovery	90°C
Shrinking starts at	Shrink curve	-	60°C
Copper Corrosion (158°C x 168h)	SAE-AMS-DTL-23053	No corrosion	pass
Stability against copper (158°C x 168h)	SAE-AMS-DTL-23053	Elongation ≥ 100%	pass
Low temperature flexibility (-55 °C x 4h)	UL 224	No cracking	pass
<b>Electrical</b>			
Voltage Rating	UL224	600V	-
Dielectric Voltage Withstand (2,5kVx60s)	UL224	no breakdown	pass
Dielectric Strength	ASTM D 876	Min. 19,7 kV/mm	≥ 30 kV/mm
Volume Resistivity	ASTM D 876	Min. 10 <sup>14</sup> Ω*cm	3,1 x 10 <sup>14</sup> Ω*cm
<b>Chemical</b>			
Flammability	UL224	VW-1	pass
Water Absorption	ASTM D 570	Max. 0,5%	0,25 %
Fluid Resistance (after immersion 24 °C x 24h)	SAE-AMS-DTL-23053	Min. 6,9 MPa (Tensile Strength)	7,25 – 14 MPa
Ozone Resistance	NF F 00-608	No cracking or sweating	pass
Fungus Resistance	SAE-AMS-DTL-23053	ASTM G 21	pass