

## 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.

<b>Operating temperature:</b>	- 55°C to + 135°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/Approvals:</b>	UL 224 125°C 600V VW-1 (File No. UL E191514), Mil Spec. M23053/5



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

<b>Packaging:</b>	On spools. Cut lengths or printed tubing on request. Special sizes on request.
<b>Processing note:</b>	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
<b>Mechanical</b>			
Tensile strength	ASTM D 638	Min. 10.4 MPa	≥ 12 MPa
Elongation	ASTM D 638	min. 200%	440%
After thermal ageing (158°C / 168h): Tensile strength Elongation	UL 224	7.3MPa >100%	12.5MPa 450%
<b>Thermal</b>			
Low temperature flexibility (1h x -30°C)	UL 224	No cracking	Pass
Thermal aging (158h x 175°C):  Elongation Dielectric strength Breakdown voltage	UL 224	Min. 100% 2,5kV AC x 60s min. 2.5kV AC and ≥50% of the output value	450% Pass Pass
Heat shock (4h x 250°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Flammability	UL 224	VW-1	Pass
<b>Electrical</b>			
Dielectric withstand	AC 2.5kV x 60s	no breakdown	Pass
Dielectric breakdown	min. AC 2.5kV		24.8kV
After ageing (158°C / 168h): Dielectric withstand Dielectric breakdown	AC 2.5kV x 60s min. 50% of output value and min. AC 2.5kV	no breakdown  min. 1.0x10 <sup>14</sup> Ωxcm	Pass  Pass
Volume resistance	-	Min. 10 <sup>14</sup> Ωxcm	5.8 x 10 <sup>14</sup> Ωxcm
<b>Chemical</b>			
Copper corrosion (168h x 158°C)	95%humidity, 23°C / 24h	No corrosion	Pass
Copper stability (168h x 158°C)	95%humidity, 23°C / 24h	Elongation: Min. 100%	Pass