

Polyolefin Heat-Shrink Tubing

## FITCOTUBE® FT300U

FITCOTUBE®300U is a high quality and flexible general-purpose polyolefin heat shrink tube. Suitable for a wide range of industrial and automotive applications. FITCOTUBE®300U is highly flexible, flame retardant (colors only) and environmentally friendly. Particularly suited to electrical cable insulation, strain relief, identification and cable bundling of wires, wire harnesses and electronic components.

<b>Operating temperature:</b>	-55°C to +135°C (short term up to +250°C)
<b>Min. shrink temperature:</b>	+90°C
<b>Min. full recovery temp.:</b>	+135°C
<b>Shrink ratio:</b>	3:1
<b>Standard colors:</b>	Black, Blue, Green, Red, White, Yellow Other colors on request

Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT300U-150	1.5	0.5	0.45 ±0.12
FT300U-300	3.0	1.0	0.55 ±0.12
FT300U-450	4.5	1.5	0.60 ±0.12
FT300U-600	6.0	2.0	0.65 ±0.12
FT300U-900	9.0	3.0	0.80 ±0.15
FT300U-1200	12.0	4.0	0.85 ±0.15
FT300U-1500	15.0	5.0	0.90 ±0.15
FT300U-1800	18.0	6.0	1.00 ±0.20
FT300U-2400	24.0	8.0	1.20 ±0.20
FT300U-3000	30.0	10.0	1.20 ±0.20
FT300U-3900	39.0	13.0	1.50 ±0.30
FT300U-5100	51.0	17.0	1.65 ±0.30

\*Other sizes on request

**Packaging:** On spools, cut lengths or printed tubing on request.

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Properties	Test Method	Typical Value
<b>Mechanical</b>		
Tensile strength	ASTM D2671	≥10.4 MPa
Ultimate elongation	ASTM D2671	≥200%
Longitudinal change	ASTM D2671	-20% to +5%
Secant modulus 2% (recovered)	ASTM D2671	≤172MPa
<b>Thermal</b>		
Low temperature flexibility (-55°C/4h)	ASTM D2671	No cracking
Heat shock (250°C/4h)	ASTM D2671	No cracking, dropping or flowing
Heat aging (175°C/168h): Tensile strength Ultimate elongation	ASTM D2671	≥7.3MPa ≥100%
<b>Electrical</b>		
Dielectric strength	ASTM D2671	≥19.7kV/mm
Dielectric withstand	ASTM D2671	2500V/≥60s
Volume resistance	ASTM D2671	≥1.0 x 10 <sup>14</sup> Ω*cm
<b>Chemical</b>		
Water absorption (24h x 23°C)	ASTM D2671	≤0.5%
Flammability	ASTM D2671 Procedure C	Self-extinguishing within 60s
Copper corrosion (16h/175°C)	ASTM D2671	No corrosion
Fluid resistance (23°C/24h; Hydraulic fluid, lubricating oil) Tensile strength Ultimate elongation Dielectric strength	ASTM D412 ASTM D2671 ASTM D2671 ASTM D2671	≥6.9Mpa ≥175% ≥15.8kV/mm