

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 and environmentally friendly. Particularly suited to electrical cable insulation, strain relief, identification and cable bundling of wires, wire harnesses and electronic components.

Operating temperature:	-55°C to +135°C (short term up to +250°C)
Min. shrink temperature:	+90°C
Min. full recovery temp.:	+125°C
Shrink ratio:	3:1
Standard colors:	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	0.55
FT300U-300	3.0	1.0	0.60
FT300U-600	6.0	2.0	0.70
FT300U-900	9.0	3.0	0.90
FT300U-1200	12.0	4.0	0.95
FT300U-1800	18.0	6.0	1.00
FT300U-2400	24.0	8.0	1.20
FT300U-3000	30.0	10.0	1.30
FT300U-3900	39.0	13.0	1.40

*Other sizes on request

Packaging:	On spools, cut lengths or printed tubing on request.
Processing note:	Care for clean and straight cutting edges. Start shrinkage on the end. Pre-heat metal body.

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Properties	Test Method	Typical Value
Mechanical		
Tensile strength	ASTM D2671	≥10.4 MPa
Ultimate elongation	ASTM D2671	≥200%
Longitudinal change	ASTM D2671	-10% to +5%
Secant modulus 2% (recovered)	ASTM D2671	≤172MPa
Thermal		
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%
Electrical		
Dielectric strength Thickness <1.20 Thickness 1.20 to <2.80	ASTM D2671	≥20 kV/mm ≥12 kV/mm
Dielectric constant	ASTM D150	≤3.1
Volume resistance	ASTM D2671	≥1.0 x 10 ¹⁴ Ω*cm
Chemical		
Water absorption (24h x 23°C)	ASTM D2671	≤0.5%
Flammability colors only clear	UL224 ASTM D2671 method C FMVSS 302	VW-1 self-extinguish within 60s Passed
Copper corrosion (16h/175°C)	ASTM D2671	No corrosion
Fluid resistance (23°C/24h)		
Tensile strength	ASTM D412	≥6.9Mpa
Ultimate elongation	ASTM D2671	≥175%
Dielectric strength	ASTM D2671	≥15.8kV/mm
Thickness <1.20		≥10kV/mm
Thickness 1.20 to <2.80		