

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT500U

FITCOTUBE®500U is a high quality and flexible general-purpose polyolefin heat shrink tube. Suitable for a wide range of industrial and automotive applications. FITCOTUBE®500U 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.

Operating temperature:	-55°C to +135°C (short term up to +250°C)
Min. shrink temperature:	+90°C
Min. full recovery temp.:	+135°C
Shrink ratio:	2:1
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.)
FT500U-120	1.2	0.6	0.40 ±0.10
FT500U-160	1.6	0.8	0.43 ±0.10
FT500U-240	2.4	1.2	0.51 ±0.12
FT500U-320	3.2	1.6	0.51 ±0.12
FT500U-480	4.8	2.4	0.51 ±0.12
FT500U-640	6.4	3.2	0.64 ±0.12
FT500U-790	7.9	4.0	0.64 ±0.12
FT500U-950	9.5	4.8	0.64 ±0.12
FT500U-1270	12.7	6.4	0.64 ±0.12
FT500U-1590	15.9	7.9	0.64 ±0.12
FT500U-1910	19.1	9.5	0.76 ±0.15
FT500U-2540	25.4	12.7	0.89 ±0.15
FT500U-3200	31.8	15.9	1.02 ±0.20
FT500U-3800	38.1	19.1	1.02 ±0.20
FT500U-5100	50.8	25.4	1.14 ±0.20
FT500U-7600	76.2	38.1	1.27 ±0.20
FT500U-10200	101.6	50.8	1.40 ±0.25

*Other sizes on request

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

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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	ASTM D2671	≥19.7kV/mm
Dielectric withstand	ASTM D2671	2500V/≥60s
Volume resistance	ASTM D2671	≥1.0 x 10 ¹⁴ Ω*cm
Chemical		
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