

## 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.

<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>	2:1
<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.)
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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## FITCOTUBE® FT500U

Properties	Test Method	Typical Value
<b>Mechanical</b>		
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
<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