

Polyolefin heat-shrink tubing

FITCOTUBE® FT100

High performance, flexible, flame retardant, self-extinguishing polyolefin heat-shrink tubing. Reliable insulation, mechanical protection of harnesses, variety of colors for marking.

Operating temperature:	- 55° C to + 135° C short time to + 300° C
Shrink temperature:	+ 90° C
Shrink ratio:	2 : 1
Standard colors:	Black, blue, red, white, yellow. More colors on request.
Specification:	UL File E191514, CSA



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (min-max)
FT100-120	1,20	0,60	0,34 - 0,48
FT100-160	1,60	0,80	0,36 - 0,50
FT100-240	2,40	1,20	0,44 - 0,58
FT100-320	3,20	1,60	0,44 - 0,58
FT100-480	4,80	2,40	0,44 - 0,58
FT100-640	6,40	3,20	0,57 - 0,71
FT100-950	9,50	4,80	0,57 - 0,71
FT100-1270	12,70	6,40	0,57 - 0,71
FT100-1910	19,10	9,50	0,69 - 0,83
FT100-2540	25,40	12,70	0,77 - 1,01
FT100-3800	38,10	19,10	0,87 - 1,17
FT100-5100	50,80	25,40	0,97 - 1,31
FT100-7600	76,20	38,10	1,07 - 1,47
FT100-10200	101,60	50,80	1,18 - 1,62

Packaging: On spools / Cut lengths or printed tubing on request

Processing note: Care for clean and accurate cutting edge. Start shrinkage on the end.
Pre-heat metal body.

Polyolefin heat-shrink tubing

FITCOTUBE® FT100

Attributes	Testing	Typical Value
Mechanical		
Tensile strength	ASTM D 638	≥ 14 MPa
Ultimate elongation	ASTM D 638	≥ 400 %
Longitudinal change	SAE-AMS-DTL-23053	0 % to -2%
Secant Modulus	ASTM D 882	65 MPa
Specific Gravity	ASTM D 792	1,34
Thermal		
Heat Shock (250°C x 4h)	SAE-AMS-DTL-23053	No cracking, flowing or dripping
Operating Temperature	SAE-AMS-DTL-23053	-55 up to 135°C
Elongation after heat ageing (175°C x 168h)	SAE-AMS-DTL-23053	420%
Low temperature flexibility (-55°C x 4h)	SAE-AMS-DTL-23053	No cracking
Copper Corrosion (175°C x 16h)	SAE-AMS-DTL-23053	No corrosion
Colour Stability (175°C x 24h)	SAE-AMS-DTL-23053	No change
Flammability	UL224, VW1	Pass
Electrical		
Voltage Rating	UL224	600V
Dielectric Voltage Withstand (2,5kV x 60s)	UL224	No breakdown
Volume Resistivity	ASTM D 876	$3,1 \times 10^{14} \Omega \text{ cm}$
Dielectric Strength	ASTM D 876	≥ 30 kV/mm (pass)
Chemical		
Fluid Resistance (after immersion 23°C x 24h)	SAE-AMS-DTL-23053	7,25 – 14 MPa
Fungus Resistance	SAE-AMS-DTL-23053	Pass
Water Absorption	ASTM D 570	0,25 %
Ozone Resistance	NF F 00-608	No cracking or sweating

FT100 in black passed the artificial weathering / UV – test according to DIN EN ISO 4892-2A