

Polyolefin heat-shrink tubing

## FITCOTUBE® FT100

High-quality, flexible, flame resistant heat-shrink tubing universally applicable. Use as insulation, mechanical relief of wires and cables, protection against environmental influences and labelling via different colors.

<b>Operating temperature:</b>	- 55°C to + 135°C, short time + 250°C
<b>Shrink temperature:</b>	+ 90° C
<b>Shrink ratio:</b>	2 : 1
<b>Standard colors:</b>	Black, White, Red, Yellow, Blue and other colors on request.
<b>Approvals:</b>	UL File E191514, CSA



### Standard dimensions:

Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT100-120	1.20	0.60	0.41
FT100-160	1.60	0.80	0.43
FT100-240	2.40	1.20	0.51
FT100-320	3.20	1.60	0.51
FT100-480	4.80	2.40	0.51
FT100-640	6.40	3.20	0.64
FT100-950	9.50	4.80	0.64
FT100-1270	12.70	6.40	0.64
FT100-1910	19.10	9.50	0.76
FT100-2540	25.40	12.70	0.89
FT100-3800	38.10	19.10	1.02
FT100-5100	50.80	25.40	1.14
FT100-7600	76.20	38.10	1.27
FT100-10200	101.60	50.80	1.40

**Packaging:** On spools. Special sizes, 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.

GREMCO GmbH · Sterzinger Str. 6 · D-86165 Augsburg · T +49.821.272 63-0 · F +49.821.272.63-55 · info@gremco.de · www.gremco.de

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## FITCOTUBE® F100

Attributes	Testing	Requirements	Value
<b>Mechanical</b>			
Tensile strength	ASTM D 638	min. 14.0 MPa	≥ 14 MPa
Ultimate elongation	ASTM D 638	min. 200 %	≥ 400 %
Longitudinal change	SAE-AMS-DTL-23053	max. ± 5%	0 - 2 %
Secant modulus	ASTM D 882	max. 173 MPa	65 MPa
Specific density	ASTM D 792	1.35	1.34
<b>Thermal</b>			
Low temperature flexibility (-55°C x 4 h)	SAE-AMS-DTL-23053	no cracking	pass
Long-term ageing (175°C x 168 h)	SAE-AMS-DTL-23053	min. 100 % ageing	420 %
Short-term ageing (250°C x 4 h)	SAE-AMS-DTL-23053	no cracking, flowing or dripping	pass
Color stability (175°C x 24 h)	SAE-AMS-DTL-23053	unchanged	pass
<b>Electrical</b>			
Dielectric strength	ASTM D 876	min. 19.7 kV/mm	≥ 30 kV/mm
Volume resistivity	ASTM D 876	min. 10 <sup>14</sup> Ω/cm	3.1 x 10 <sup>14</sup> Ω/cm
Nominal voltage	UL 224		600 V
<b>Chemical</b>			
Fire behavior	UL 224	VW-1	pass
Water absorption	ASTM D 570	max. 0.5 %	0.25 %
Fungus resistance	SAE-AMS-DTL-23053	ASTM G21	pass
Ozone resistance	NF F 00-608	no cracking, no perspiring	pass
Fluid resistance (23°C 24 h)	SAE-AMS-DTL-23053	Min. 6.9 MPa (Tensile strength)	7.25 – 14 MPa