

Polyolefin Heat-Shrink Tubing

## FITCOTUBE® FT100 clear

High-quality, flexible, flame resistant heat-shrink tubing universally applicable. Use as insulation, mechanical relief of wires and cables, protection against environmental influences e. g. for cable harnesses.

**Operating temperature:** -55°C to +135°C, short time +250°C

**Shrink temperature:** +110°C

**Shrink ratio:** 2 : 1

**Standard colors:** Clear

**Approvals/Specifications:** Mil Spec. M23053/5 class 2



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
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	0.56 – 0.70
FT100-950	9.50	4.75	0.56 – 0.70
FT100-1270	12.70	6.40	0.56 – 0.70
FT100-1910	19.10	9.50	0.70 – 0.84
FT100-2540	25.40	12.70	0.76 – 0.10
FT100-3810	38.10	19.10	0.87 – 1.17
FT100-5080	50.80	25.40	0.96 – 1.30
FT100-7620	76.20	38.10	1.10 – 1.50
FT100-10160	101.60	50.80	1.18 – 1.62

**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 +49.821.272.63-44 · [info@gremco.de](mailto:info@gremco.de) · [www.gremco.de](http://www.gremco.de) •

PDS No.: 20240219114939

Version: UWM0224-1

Print Date: 07. Aug. 2024

FITCO® = trademark of GREMCO

All of the above information is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. GREMCO make no warranties as to the accuracy or completeness of the information and disclaims any liability regarding its use. GREMCO's only obligations are those in the Standard Terms and Conditions of Sale for this product, and in no case will GREMCO be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use or misuse of the product.

Polyolefin Heat-Shrink Tubing

## FITCOTUBE® FT100 clear

Attributes	Testing	Requirements	Value
<b>Mechanical</b>			
Tensile strength	ASTM D 638	min. 10.4 MPa	≥ 20 MPa
Ultimate elongation	ASTM D 638	min. 200 %	≥ 450 %
Longitudinal change	SAE-AMS-DTL-23053	± 5%	± 5 %
Secant modulus	ASTM D 882	max. 173 MPa	≤ 80 MPa
Specific density	ASTM D 792	max. 1.0	0.95
<b>Thermal</b>			
Transparency (24h x 175°C)	SAE-AS23053	Legible label	Pass
Low temperature flexibility (4h x -55°C)	SAE-AS23053	No cracking	Pass
Long term aging (168h x 175° C)	SAE-AS23053	Min. 100 %	≥ 250 %
Heat shock (4h x 250°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Copper corrosion (16h x 175°C)	SAE-AS23053	No corrosion	Pass
<b>Electrical</b>			
Dielectric strength	ASTM D 876	Min. 19.7 kV/mm	≥ 30 kV/mm
Volume resistance	ASTM D 876	Min. 10 <sup>14</sup> Ωxcm	≥ 10 <sup>15</sup> Ωxcm
Nominal voltage	-	-	600V
Breakdown test (60s x 2,5 kV)	UL 224	No breakthrough	Pass
<b>Chemical</b>			
Water absorption	ASTM D570	Max. 0.5 %	≤ 0.2%
Fungus resistance	SAE-AS23053	ASTM G 21	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 6.9 MPa (Tensile strength)	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 15.8 kV/mm (Dielectric strength)	Pass