

Elastomer Heat-Shrink Tubing

FITCOTUBE® FTV

High temperature resistant, highly resistant heat shrinkable tubing for cable sheathing in aircraft and vehicle construction for extreme mechanical, chemical and thermal loads as well as for the protection of measuring probes, they are exposed to temperature loads and aggressive media.

Operating temperature: -40°C to +200°C, short time up to +300°C

Shrink temperature: +150° C

Shrink ratio: 2 : 1

Standard color: Black
Other colors on request

Approvals/Specifications: Mil Spec. M23053/13



Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FTV-320	3,20	1,60	0,80
FTV-480	4,80	2,40	0,90
FTV-640	6,40	3,20	0,90
FTV-950	9,50	4,80	0,90
FTV-1270	12,70	6,40	0,90
FTV-1900	19,00	9,50	1,10
FTV-2540	25,40	12,70	1,20

Special sizes on request

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

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Packaging: On Spools. Cut and printed lengths on request.
Special sizes on request.

Properties	Test Method	Requirement	Typical Value
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Mechanical

Tensile strength	SAE-AS23053	Min. 8.2 MPa	≥ 10 MPa
Ultimate elongation	SAE-AS23053	Min. 250%	≥ 400 %
Longitudinal change	SAE-AS23053	± 20%	- 8 %
Specific density	ASTM D 792	-	1,96

Thermal

Low temperature flexibility (- 40°C)	SAE-AS23053	No cracking	Pass
Heat shock (4h x 300°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Tensile strength after thermal aging (4h x 215°C)	SAE-AS23053	Min. 8.2 MPa	Pass
Elongation after long term aging (168h x 250°C)	SAE-AS23053	Min. 200%	≥ 300 %
Flammability	ASTM D 876	Max. 15s	Pass

Electrical

Dielectric strength	ASTM D 876	Min. 7.9 kV/mm	≥ 15 kV/mm
Volume resistance	ASTM D 876	Min. 10 ⁹ Ω*cm	≥ 10 ¹² Ω*cm
Breakdown test (60s x 2,5kV)	ASTM D 149	No breakthrough	Pass

Chemical

Copper corrosion (16h x 175°C)	SAE-AS23053	No corrosion	Pass
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