

Fluoroelastomer heat-shrink tubing

FITCOTUBE® FTV

Very flexible flame retardant fluoroelastomer tubing. Resistant to most mineral and synthetic oils, hydraulic fluids and solvents. Very good abrasion resistance.

Operating temperature:	- 40°C to +200°C
Shrink temperature:	+ 150° C
Shrink ratio:	2 : 1
Standard colors:	Black
Specification:	ASTM, SAE-AMS-DTL-23053/13



Bestellbezeichnung	Innendurchmesser (mm)		Wanddicke (mm)
	bei Lieferung (min.)	nach Schrumpfung (max.)	nach Schrumpfung (nom.)
FTV-320 3,2/1,6	3,2	1,6	0,80
FTV-480 4,8/2,4	4,8	2,4	0,90
FTV-640 6,4/3,2	6,4	3,2	0,90
FTV-950 9,5/4,8	9,5	4,8	0,90
FTV-1270 12,7/6,4	12,7	6,4	0,90
FTV-1910 19,1/9,5	19,1	9,5	1,10
FTV-2540	25,4	12,7	1,20

Packaging:	On Spools. Cut and printed lengths on request. 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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Attributes	Testing	Requirement	Value
Mechanical Properties			
Longitudinal Change	SAE-AMS-DTL-23053	±20%	-8%
Specific Gravity	ASTM D 792		1,96
Tensile Strength	SAE-AMS-DTL-23053	≥ 8,2 MPa	≥ 10 MPa
Elongation at Break	SAE-AMS-DTL-23053	≥ 250%	≥ 400%
Thermal Properties			
Heat Shock (300°C x 4h)	SAE-AMS-DTL-23053	no crack, flowing or dripping	Pass
Tensile Strength after heat ageing	SAE-AMS-DTL-23053	≥ 8,2 MPa	Pass
Elongation after heat ageing (250°C x 168h)	SAE-AMS-DTL-23053	≥ 200%	≥ 300%
Cold impact (-40°C)	SAE-AMS-DTL-23053	no cracking	Pass
Copper Corrosion (175°C x 16h)	SAE-AMS-DTL-23053	no corrosion	Pass
Electrical Properties			
Voltage Rating			600 V
Dielectric Voltage Withstand (2.5kV x 60s)	ASTM D 149	no breakdown	Pass
Volume Resistivity	ASTM D 876	Min. 10 ⁹ Ohm/cm	≥ 10 ¹² Ohm/cm
Dielectric Strength	ASTM D 876	Min. 7,9 KV/mm	≥ 15 KV/mm
Chemical Properties			
Flammability	ASTM D 876	≤ 15 sec.	Pass
Water Absorption	ASTM D 570	≤ 0,5%	
Fluid Resistance (after immersion 24°C x 24h)	SAE-AMS-DTL-23053	≥ 8,2 MPa (Tensile Strength)	Pass
Fluid Resistance (after immersion 24°C x 24h)	SAE-AMS-DTL-23053	≥ 250% (Elongation)	Pass
Fungus Resistance	SAE-AMS-DTL-23053	ASTM G	Pass