

PVDF- Heat-Shrink Tubing

FITCOTUBE® FT275

Flexible, very abrasion resistant, flame-resistant *Kynar heat shrink tubing. FT275 can be applied where the properties of the standard-Kynar tubing FT175, better flexibility and clarity at a low shrink temperature are required. Insulation and protection of wires, components, sold and crimp connectors in high temperature environments. High chemical stability.

- Operating temperature:** - 55° to + 175° C
- Shrink temperature:** + 120° C to + 150° C
- Shrink ratio:** 2: 1
- Standard colors:** Clear
- Specification:** CSA File E328096; SAE-AMS-DTL-23053/18 class 1



Standard dimensions:

Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)
FT275-120	1.20	0.60	0.25
FT275-160	1.60	0.80	0.25
FT275-240	2.40	1.20	0.27
FT275-320	3.20	1.60	0.27
FT275-480	4.80	2.40	0.27
FT275-640	6.40	3.20	0.33
FT275-950	9.50	4.80	0.33
FT275-1270	12.70	6.40	0.33
FT275-1910	19.10	9.50	0.43
FT275-2540	25.40	12.70	0.48
FT275-3800	38.10	19.10	0.51
FT275-5100	50.80	25.40	0.51

- Packaging:** On spools. Cut lengths on request.
Special sizes on request.
- Processing note:** Care for clean and straight cutting edges. Start shrinkage on the end.
Pre-heat metal body.

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Attributes	Testing	Requirements	Value
Mechanical			
Tensile strength	ASTM D 412	min. 24.1 MPa	≥ 30 MPa
Ultimate elongation	ASTM D 412	min. 200%	≥ 350 %
Longitudinal change	SAE-AMS-DTL-23053	+ 5 % bis - 10 %	- 7 %
Specific density	ASTM D 792	max. 1.9	1.73
Elastic Modulus	ASTM D 882	min. 690 MPa	≥ 730 MPa
Thermal			
Short term ageing (275°C x 4h)	SAE-AMS-DTL-23053	no cracking, flowing or dripping	pass
Long term ageing (250°C x 168h)	ASTM D 638	min. 100%	≥ 200%
Copper Corrosion (160°C x 16h)	SAE-AMS-DTL-23053	no corrosion	pass
Transparency (200°C x 24h)	SAE-AMS-DTL-23053	legible label	pass
Low temperature flexibility (- 55 °C x 4h)	SAE-AMS-DTL-23053	no cracking	pass
Electrical			
Voltage Rating	-	-	600V
Dielectric Strength	SAE-AMS-DTL-23053	min. 15.7 kV/mm	≥ 31 kV/mm
Volume Resistivity	ASTM D 876	min. 10 ¹¹ Ω/cm	10 ¹⁵ Ω/cm
Chemical			
Flammability	UL224	VW-1	pass
Water absorption	ASTM D 570	max. 0.5%	≤ 0.2 %
Fluid resistance	SAE-AMS-DTL-23053	-	Pass
Tensile Strength	-	min. 13.9 MPa	Pass
Elongation	-	min. 100%	Pass
Dielectric Strength (after immersion 23 °C x 24h)	-	min. 15.7 kV/mm	pass
Fungus Resistance	SAE-AMS-DTL-23053	ASTM G 21	pass