

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°C to +175°C
Shrink temperature:	+120°C to +150°C
Shrink ratio:	2 : 1
Standard colors:	Clear Colors on request
Approvals/Specifications:	UL 224 VW-1 (File No. E328096); Mil Spec. M23053/18 class 1



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
FT275-1900	19.00	9.50	0.43
FT275-2540	25.40	12.70	0.48

Special sizes on request

Packaging: On spools. Cut lengths on request.

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

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Properties	Test Method	Requirements	Typical Value
Mechanical			
Tensile strength	ASTM D 412	Min. 24.1 MPa	≥ 30 MPa
Ultimate elongation	ASTM D 412	Min. 200%	≥ 350%
Longitudinal change	SAE-AS23053	+ 5% bis - 10%	- 7%
Elastic modulus	ASTM D 882	Min. 690 MPa	≥ 730 MPa
Specific density	ASTM D 792	Max. 1.9	1.73
Thermal			
Low temperature flexibility (4h x -55°C)	SAE-AS23053	No cracking	Pass
Heat shock (4h x 275°C)	SAE-AS23053	No cracking, flowing or dripping	Pass
Elongation after long term aging (168h x 250°C)	ASTM D 638	Min. 100%	≥ 200%
Flammability	UL 224	VW-1	Pass
Transparency (24h x 200°C)	SAE-AS23053	Readable marking	Pass
Electrical			
Dielectric strength	SAE-AS23053	Min. 15.7 kV/mm	≥ 30 kV/mm
Volume resistance	ASTM D 876	Min. 10 ¹¹ Ω*cm	10 ¹⁵ Ω*cm
Nominal voltage	-	N.a.	600V
Chemical			
Water absorption	ASTM D 570	Max. 0.5%	≤ 0.2%
Fungus resistance	SAE-AS23053	ASTM G 21	Pass
Copper corrosion (16h x 160°C)	SAE-AS23053	No corrosion	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 13.9 MPa (Tensile strength)	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 100% (Elongation)	Pass
Fluid resistance (24h x 24°C)	SAE-AS23053	Min. 15.7 kV/mm (Dielectric strength)	Pass