

Polyolefin Heat-Shrink Tubing

FITCOTUBE® FT010

Halogen-free, flame-resistant heat-shrink tubing with flat surface. Use as cable labelling and wire sheath in military technology, vehicles for mass transport and public buildings. High flexibility at low temperatures.

Operating temperature: - 40°C to + 105°C

Shrink temperature: + 120° C

Shrink ratio: 2: 1

Standard colors: Black

Approvals: ASTM, BS 6853, BSS 7239 Boeing Specification Support Standard, Japanese Standard for railway vehicle material, LUL: London Underground Limited Eng. Stand. E 1042. A6, SAE-AMS-DTL-23053, EN45545-2, IEC 60684-3-216



Standard dimensions:

Description	Inner diameter (mm)		Wall thickness (mm)
	as supplied (min.)	after full recovery (max.)	after full recovery (nom.)
FT010-160	1.60	0.80	0.70
FT010-240	2.40	1.20	0.70
FT010-320	3.20	1.60	0.70
FT010-480	4.80	2.40	0.85
FT010-640	6.40	3.20	0.90
FT010-950	9.50	4.80	1.00
FT010-1270	12.70	6.40	1.20
FT010-1900	19.10	9.50	1.40
FT010-2540	25.40	12.70	1.80
FT010-3800	38.10	19.10	1.80
FT010-5100	50.80	25.40	2.20

Packaging: On Spools.
Cut and printed lengths 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	Requirements	Value
Mechanical			
Tensile strength	ASTM D 638	Min. 10,4 MPa	pass
Ultimate Elongation	ASTM D 638	Min. 200%	pass
Longitudinal Change	IEC 60684-3-216	5 to -10%	pass
Elastic modulus	ASTM D 882	Max. 173 MPa	pass
Thermal			
Low temperature flexibility (-40°C x 4 h)	SAE-AMS-DTL-23053	no cracking	pass
Elongation after long-term ageing (136°C x 168 h)	ASTM D 638	Min. 7,3 MPa	pass
Short-term ageing (225°C x 4 h)	SAE-AMS-DTL-23053	no crack, flowing or dripping	pass
Fire behavior	LUL: London Underground	self-extinguishing	-
Electrical			
Dielectric strength	ASTM D 876	Min. 19,7 kV/mm	pass
Volume resistivity	ASTM D 876	Min. 10 ¹² Ω*cm	≥ 6 x 10 ¹³ Ω/cm
Chemical			
Halogen content	NFX-70-100 BS 6853	zero	zero
Water absorption	ASTM D 570	Max. 1,0	pass
Copper Corrosion	SAE-AMS-DTL-23053	no corrosion	pass
Safety-relevant			
Oxygen index	EN 45545-2	Min. 32	≥ 37
Smoke density	EN 45545-2	Max. 150: R22 / HL3	< 150: R22 / HL3
Toxic gas evolution	BSS 7293	ppm limit (6 gases)	pass
Toxic smoke development	EN 45545-2	Max. 0,75	< 0.75: R22 7 HL3