

Polyolefin Heat-Shrink Tubing with interior Adhesive

## FITCOTUBE® FT800U

Dual-wall heat-shrink tubing made of polyolefin with an outer layer of radiation cross-linked flame retardant material and an inner layer of hot melt adhesive.

### Description:

FITCOTUBE® FT800U is flame retardant (except transparent) according to UL224 VW-1. It is especially suitable for applications that require insulation, corrosion resistance and mechanical stress relief.

<b>Operating temperature:</b>	- 40°C to + 125°C
<b>Min. complete shrinkage temperature:</b>	+ 125°C
<b>Shrink ratio:</b>	3:1 and 4:1
<b>Standard colors:</b>	Black Other colors on request
<b>Approvals:</b>	According to UL

Description	Inner diameter (mm)		Wall thickness (mm)	Adhesive thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)	after shrinkage (nom.)
<b>Shrink ratio 3:1</b>				
FT800U-3.2/1.0	3.2	1.0	1.0	0.5
FT800U-4.8/1.6	4.8	1.6	1.0	0.5
FT800U-6.4/2.1	6.4	2.1	1.2	0.5
FT800U-7.9/2.6	7.9	2.6	1.3	0.6
FT800U-9.5/3.2	9.5	3.2	1.4	0.6
FT800U-12.7/4.2	12.7	4.2	1.7	0.7
FT800U-15/5	15.0	5.0	1.8	0.7
FT800U-19.1/6	19.1	6.0	2.2	0.8
FT800U-25.4/8	25.4	8.0	2.4	1.0
FT800U-30/10	30.0	10.0	2.5	1.0
FT800U-39/13	39.0	13.0	2.5	1.0
FT800U-51/17	51.0	17.0	2.6	1.2

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Description	Inner diameter (mm)		Wall thickness (mm)	Adhesive thickness (mm)
	as supplied (min.)	after shrinkage (max.)	after shrinkage (nom.)	after shrinkage (nom.)
<b>Shrink ratio 4:1</b>				
FT800U-4/1 (4:1)	4.0	1.0	1.0	0.5
FT800U-6/1.5 (4:1)	6.0	1.5	1.0	0.5
FT800U-8/2 (4:1)	8.0	2.0	1.2	0.5
FT800U-12/3 (4:1)	12.0	3.0	1.4	0.6
FT800U-16/4 (4:1)	16.0	4.0	1.7	0.7
FT800U-20/5 (4:1)	20.0	5.0	1.8	0.7
FT800U-24/6 (4:1)	24.0	6.0	2.2	0.8
FT800U-32/8 (4:1)	32.0	8.0	2.4	1.0
FT800U-52/13 (4:1)	52.0	13.0	2.5	1.0
<b>Shrink-ratio-2:1</b>				
FT800U-3.2/1.6 (2:1)	3.2	1.6	0.9	0.4
FT800U-4.8/2.0 (2:1)	4.8	2.0	1.2	0.5
FT800U-6.4/2.6 (2:1)	6.4	2.6	1.2	0.5
FT800U-7.9/3.2 (2:1)	7.9	3.2	1.3	0.6
FT800U-9.5/4 (2:1)	9.5	4.0	1.3	0.6
FT800U-12.7/5 (2:1)	12.7	5.0	1.4	0.6
FT800U-15/6 (2:1)	15.0	6.0	1.4	0.7
FT800U-19.1/8 (2:1)	19.1	8.0	1.8	0.7
FT800U-25.4/10 (2:1)	25.4	10.0	1.8	0.8
FT800U-28/13 (2:1)	28.0	13.0	2.0	0.8
FT800U-39/16 (2:1)	39.0	16.0	2.1	0.9
FT800U-50/20 (2:1)	50.0	20.0	2.2	0.9

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Properties	Test Method	Typical Value
<b>Mechanical</b>		
Tensile strength	ASTM D2671	≥ 12 MPa
Ultimate elongation	ASTM D2671	≥ 300%
After Thermal Aging (158°C/168hrs) Tensile strength	ASTM D2671	≥ 10 MPa
Ultimate elongation		≥ 200%
Longitudinal change	ASTM D2671	≥ -10%
<b>Thermal</b>		
Heat shock (4hrs x 250°C)	ASTM D2671	Outer layer no cracking, no flowing, no dripping
Flame retardancy (outer layer only, excl. transparent)	UL224	VW-1
<b>Electrical</b>		
Dielectric strength	ASTM D2671	≥ 12 kV/mm
Dielectric voltage withstand	AC2500V, 60s	No breakdown
Dielectric voltage withstand after thermal aging (158°C/168hrs)	ASTM D2671 (AC2500V, 60s)	No breakdown
Volume resistance	ASTM D2671	≥ 1.0x10 <sup>14</sup> Ωxcm
<b>Chemical</b>		
Water absorption (24hrs x 23°C)	ASTM D2671	≤ 0.5%
Copper corrosion (168h x 150°C)	ASTM D2671	No corrosion
Low temperature flexibility (4h x -40°C)	ASTM D2671	No cracking