

Flexible flame retardant polyolefin heat shrink tubing

FITCOTUBE® FT-SNV-U(1)

Thin wall, flame retardant, flexible tube for insulation of round and rectangular busbars up to 1 kV.

Operating temperature:	-40 to 105° C
Shrink temperature:	125 °C
Shrink ratio:	2.5:1 and 3:1
Standard color:	Black, Orange
Approvals:	According to UL

Description	Bus bar, single layer, L+T (mm)	Bus bar, double layer, L+T (mm)	Inner diameter (mm)		Wall thickness (mm)		Spool length (m)
	min.	min.	min.	max.	nom.	min.	
FITCOTUBE® FT-SNV-U(1) 15/6			15	6	1.5		30
FITCOTUBE® FT-SNV-U(1) 30/10	23, 28, 33, 34		30	10	1.8	1.5	30
FITCOTUBE® FT-SNV-U(1) 30/12			30	12	1.5		30
FITCOTUBE® FT-SNV-U(1) 75/25	40, 44, 50, 55, 56, 58, 60, 66, 68		75	25	2.0	1.5	30
FITCOTUBE® FT-SNV-U(1) 75/30			75	30	1.5		30
FITCOTUBE® FT-SNV-U(1) 100/33	70, 86, 88, 90		100	33	2.2	1.5	30
FITCOTUBE® FT-SNV-U(1) 100/40			100	40	1.5		30
FITCOTUBE® FT-SNV-U(1) 120/50			120	50	1.5		30
FITCOTUBE® FT-SNV-U(1) 150/50	108, 110, 112, 115, 130, 132, 135	108, 110, 112	150	50	2.2	1.5	30
FITCOTUBE® FT-SNV-U(1) 175/70			175	70	1.5		30
FITCOTUBE® FT-SNV-U(1) 180/70	162, 165	115, 130, 132, 135, 162, 165	180	70	2.3	1.5	30

Special sizes on request

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Properties	Test Method	Requirement	Typical Value
Thermal			
Thermal Endurance	IEC 216		125° C
Tensile strength after long term aging (168h x 136°C)	ASTM D 2671		≥ 12 MPa
Elongation after long term aging (168h x 136°C)	ASTM D 2671		≥ 300 %
Flammability	ASTM D 2863		OI ≥ 27
Low temperature flexibility (4h x -40°C)	ASTM D 2671	No cracking	Pass
Heat shock (4h x 225°C)	ASTM D 2671	No drop, no flow	Pass
Copper corrosion (168h x 158°C)	IEC 60684-3	No corrosion	Pass
Smoke index	IEC 61034		≤ 120
Mechanical			
Tensile strength	ASTM D 2671		≥ 14 MPa
Ultimate elongation	ASTM D 2671		≥ 400 %
Specific density	ASTM D 2671		1.15 – 1.25
Holding air test		Bus bar bent more than three times	After shrinking, no air gap between HST and bus bar
Cut test (168h x 130°C)	Raychem method	Longitudinal cuts, 5mm long	No cracking
Electrical			
Dielectric strength	ASTM D 2671	In insulation oil	≥ 18 kV/mm
Volume resistance	ASTM D 2671		≥ 10 ¹³ Ωxcm
Chemical			
Water absorption (336h x 23°C)	ASTM D570		≤ 1.0 %
Fluid resistance (168h x 23°C)	IEC 60684-2	Tensile strength	≥ 8 MPa
Fluid resistance (168h x 23°C)	IEC 60684-2	Breakdown elongation	≥ 250 %
Halogen content	IEC 61249-2-21		Cl: 900 ppm max. Br: 900 ppm max. Cl+Br (total): 1500 ppm max.