

Flexible flame retardant polyolefin heat shrink tubing

FITCOTUBE® FT-SNV-U(1)-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:	2:1
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.	50
FITCOTUBE® FT-SNV-U(1)-1 25/12	23, 28		25	12	0.8	50
FITCOTUBE® FT-SNV-U(1)-1 30/15	33, 34	23, 28	30	15	0.8	50
FITCOTUBE® FT-SNV-U(1)-1 40/20	40, 44	33, 34	40	20	0.9	25
FITCOTUBE® FT-SNV-U(1)-1 50/25	50, 55, 56	40, 44	50	25	0.9	25
FITCOTUBE® FT-SNV-U(1)-1 60/30	58, 60, 66, 68	50, 55, 56	60	30	1.0	25
FITCOTUBE® FT-SNV-U(1)-1 70/35	58, 60, 66, 68	50, 55, 56	70	35	1.1	25
FITCOTUBE® FT-SNV-U(1)-1 80/40	70, 86, 88, 90	58, 60, 66, 68	80	40	1.2	25
FITCOTUBE® FT-SNV-U(1)-1 90/45			90	45	1.3	25
FITCOTUBE® FT-SNV-U(1)-1 100/50	108, 110, 112	70, 86, 88, 90	100	50	1.3	25
FITCOTUBE® FT-SNV-U(1)-1 120/60	108, 110, 112, 115, 130, 132, 135	70, 86, 88, 90, 108, 110, 112	120	60	1.3	25
FITCOTUBE® FT-SNV-U(1)-1 150/75	162, 165	115, 130, 132, 135	150	75	1.5	25
FITCOTUBE® FT-SNV-U(1)-1 180/90		162, 165	180	90	1.5	25

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		≤ 0.5 %
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.