

Flexible flame retardant polyolefin heat shrink tubing

FITCOTUBE® FT-SNV-U(10)

Thin wall, flame retardant, flexible tube for insulation of round and rectangular busbars from 6 up to 24 kV.

Operating temperature:	-40 to 105° C
Shrink temperature:	125 °C
Shrink ratio:	2.5:1
Standard color:	Red

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.	
FITCOTUBE® FT-SNV-U(10) 25/10	23, 28		25	10	2.50	25
FITCOTUBE® FT-SNV-U(10) 30/12	33, 34	23, 28	30	12	2.65	20
FITCOTUBE® FT-SNV-U(10) 40/16	40, 44	33, 34	40	16	2.65	20
FITCOTUBE® FT-SNV-U(10) 50/20	50, 55, 56	40, 44	50	20	2.65	20
FITCOTUBE® FT-SNV-U(10) 65/25	58, 60, 66, 68	50, 55, 56	65	25	2.85	20
FITCOTUBE® FT-SNV-U(10) 75/30	58, 60, 66, 68	50, 55, 56	75	30	2.85	20
FITCOTUBE® FT-SNV-U(10) 85/35	70, 86, 88, 90	58, 60, 66, 68	85	35	2.85	20
FITCOTUBE® FT-SNV-U(10) 100/40	108, 110, 112	70, 86, 88, 90	100	40	2.85	20
FITCOTUBE® FT-SNV-U(10) 120/50	108, 110, 112, 115, 130, 132, 135	70, 86, 88, 90, 108, 110, 112	120	50	2.85	20
FITCOTUBE® FT-SNV-U(10) 150/60	162, 165	115, 130, 132, 135	150	60	2.90	20
FITCOTUBE® FT-SNV-U(10) 175/75		162, 165	175	75	2.90	20

Special sizes on request

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Properties	Test Method	Requirement	Typical Value
Thermal			
Thermal Endurance	IEC 216	-	105° 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		≥ 400 %
Elongation after long term aging (3000h x 120°C)	IEC 60684-2		≥ 175 %
Low temperature flexibility (4h x -40°C)	ASTM D 2671	No cracking	Pass
Heat shock (4h x 200°C)	ASTM D 2671	No drop, no flow, no cracking	Pass
Copper corrosion (168h x 158°C)	IEC 60684-3	No corrosion	Pass
Mechanical			
Tensile strength	ASTM D 2671		≥ 14 MPa
Ultimate elongation	ASTM D 2671		≥ 500 %
Specific density	ASTM D 2671		0.95 – 1.05
Holding air test		Bus bar bent more than three times	After shrinking, no air gap between HST and bus bar
Cut test (168h x 110°C)	Raychem method	Longitudinal cuts, 5mm long	No cracking
Electrical			
Dielectric strength	ASTM D 2671	In insulation oil	≥ 16 kV/mm
Volume resistance	ASTM D 2671		≥ 10 ¹³ Ωcm
Tracking and erosion resistance	ASTM D 2303		No tracking after 1h at 2.5kV or 1h at 2.75kV
Chemical			
Water absorption (336h x 23°C)	ASTM D570		≤ 0.2 %
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			Cl: 900 ppm max. Br: 900 ppm max. Cl+Br (total): 1500 ppm max.
Color fastness to light	IEC 60684-3	Comparison between exposed and unexposed	Parts of the color do not change