



S1-1 1 KV Bus Bar Insulation Heat Shrink Tube

Features

- Flame retardant thin wall cross-linked polyolefin
- Bus bar insulation and protection
- Reduces bus bar clearance requirement
- Halogen free, RoHS compliant
- Protects against short circuit and electrical leakage caused by small animals
- Operating temperature: -40~105 °C
- Shrink temperature: 125 °C
- Shrink ratio: 2.5:1 & 3:1
- Voltage class: 1KV

Approvals

- UL approval
- File No.

Technical Data

	Property	Test Method	Values
Physical	Tensile strength	ASTM D2671	≥14 MPa
	Breakdown elongation	ASTM D2671	≥400%
Aging (136°C/168hrs)	Tensile strength	ASTM D2671	≥12 MPa
	Breakdown elongation	ASTM D2671	≥300%
Resistance to selected fluids (23°C/168hrs)	Tensile strength	IEC 60684-2	≥8 MPa
	Breakdown elongation	IEC 60684-2	≥250%
	Density	ASTM D2671	1.15~1.25
	Thermal endurance	IEC 216	125 °C
	Water absorption (23°C/336hrs)	ASTM D570	≤1.0%
	Low temperature flexibility (-40°C/4hrs)	ASTM D2671	No cracking
	Heat shock (225°C/4hrs)	ASTM D2671	No drop, No flow
	Hold air test	more than 3	After shrink, no air gap between H.S.T. and bus bar
	Cutting test (130°C/168hrs)	Raychem method	5mm Length cutting along longitudinal, no cracking
	Halogen free	IEC 61249-2-21	Cl : 900ppm max.Br : 900ppm max. Total(Cl + Br) 1500ppm max.
Electrical	Volume resistivity	ASTM D2671	≥10 ¹¹ Ω.cm
	Dielectric strength(in insulation oil)	ASTM D2671	≥18 kV/mm
Chemical	Flammability	ASTM D2863	OI≥ 27
	Smoke index	IEC 61034	≤ 120
	Copper corrosion(158°C/168hrs)	IEC 60684-3	Pass

Dimensions

Shrink ratio 2.5:1

Reference UPM S1-1	As supplied(mm) ID min.	After recovered(mm) ID max.	WT nom.	Standard length m/spool
15/6	15	6	1.5	30
30/12	30	12	1.5	30
50/20	50	20	1.5	30
75/30	75	30	1.5	30
100/40	100	40	1.5	30
120/50	120	50	1.5	30
150/50	150	50	1.5	30
175/70	175	70	1.5	30

Dimensions

Shrink ratio 3:1

Reference UPM S1-1	As supplied(mm) ID min.	After recovered(mm) ID max.	WT nom.	Standard length m/spool
30/10	30	10	1.8	30
75/25	75	25	2.0	30
100/33	100	33	2.2	30
150/50	150	50	2.2	30
180/70	180	70	2.3	30

Product selection

Bus bar size (mm)	Single layer bus bar	Two layers bus bar
20×3,25×3	Φ30/10	Φ30/10
30×3,30×4	Φ30/10	Φ30/10
30×10,40×4	Φ75/25	Φ75/25
40×10,50×5,50×6	Φ75/25	Φ75/25
50×8,50×10,60×6,60×8	Φ75/25	Φ75/25
60×10,80×6,80×8,80×10	Φ100/33	Φ100/33
100×8,100×10,100×12	Φ150/50	Φ150/50
100×15,120×10,120×12,120×15	Φ150/50	Φ180/70
150×12,150×15	Φ180/70	Φ180/70

● ID=Internal Diameter

● WT= Wall Thickness

Typical application

- Suitable for insulation and protection of bus bar against accidental flashover up to 1 KV
- Ideal for using in switchgears cabinets where space is limited and air spacing between bus bars need to be minimized

Ordering

- Standard color : Black
- Standard packaging on spools.
- Please provide specification, quantity when ordering

Cross reference

- Raychem/ Tyco : LVIT



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