



## SS1-1 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: 2:1
- Voltage class: 1KV

### 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 ≤0.5%	
	Low temperature flexibility (-40°C/4hrs)	ASTM D2671 No cracking	
	Heat shock (225°C/4hrs)	ASTM D2671 No drop, No flow	
	Holdig air test	more than 3 bendings on bus bar	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 <sup>13</sup> 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 2:1

Reference UPM SS1-1	As supplied(mm) ID min.	After recovered(mm) ID max.	WT nom.	Standard length m/spool
25/12	25	12	0.8	50
30/15	30	15	0.8	50
40/20	40	20	0.9	50
50/25	50	25	0.9	25
60/30	60	30	1.0	25
70/35	70	35	1.1	25
80/40	80	40	1.2	25
90/45	90	45	1.3	25
100/50	100	50	1.3	25
120/60	120	60	1.3	25
150/75	150	75	1.5	25
180/90	180	90	1.5	25

### Product selection

Bus bar size (mm)	Single layer bus bar	Two layers bus bar
20×3,25×3	Φ25/12	Φ30/15
30×3,30×4	Φ30/15	Φ40/20
30×10,40×4	Φ40/20	Φ50/25
40×10,50×5,50×6	Φ50/25	Φ60/30(Φ70/35)
50×8,50×10,60×6,60×8	Φ60/30 (Φ70/35)	Φ80/40
60×10,80×6,80×8,80×10	Φ80/40	Φ100/50(Φ120/60)
100×8,100×10,100×12	Φ100/50(Φ120/60)	Φ120/60
100×15,120×10,120×12,120×15	Φ120/60	Φ150/75
150×12,150×15	Φ150/75	Φ180/90

● 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