

HEAT SHRINKABLE SLEEVES/TUBES

Heat Shrinkable Sleeves provide insulation enhancement to bus-bar systems up to 36kv and protect them against flashover and accidental induced discharge. The use of bus-bar tubing allows equipment designers the freedom to reduce air spacing between bus-bar, such as in manufacture of switchgear cabinets where space is at a premium.

Heat Shrinkable tubes are manufactured from high quality non-tracking, non-halogen, cross-linked based polymer which has excellent performance in high voltage environments & reduces the noxious and corrosive effects in fire situation.

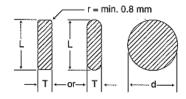
Features:-

- Reduce Bus-bar clearance.
- Solve the problem of insulation among Bus-bar in Bus Duct.
- Halogen free, flame retardant.
- High dielectric strength.
- High resistance to tracking, aging & corrosion.
- It can be offered in constant length.

Technical Data

Sr. No	Properties	Value	Standard		
	Physical				
1	Tensile Strength	11 N/mm² (MPA)(min.)	ASTM D 412-06a		
2	Ultimate Elongation	450% (Min.)	ASTM D 412-06a		
3	Longitudinal Change	-10% (Max.)	ASTM D2671		
4	Density	1.15 ± 0.2 gm/cm ³	ASTM D792		
5	Hardness	45 ± 10 Shore D	ASTM D2240		
6	Water Absorption	0.5 % (max.)	ASTM D570		
	Thermal				
7	Accelerated Ageing for 120°Cfor 400 Hrs				
	Tensile Strength	9 N/mm2 (Mpa) (min.)	ASTM D 412-06a		
	Ultimate Elongation	300 % (Min.)	ASTM D 412-06a		
8	Heat Shock (250°C for 30 Mins.)	No Cracking or flowing	ESI 09-11		
9	Shrink Temperature	125°C	IEC 216		
10	Continuous Temperature limit	-40°C to +110°C	IEC 216		
	Electrical				
11	Dielectric Strength	23 KV/mm. (Min.)	ASTM D149		
12	Volume Resistivity	7.7 x 10 ¹⁵ Ohm.cm	ASTM D257		
13	Dielectric Constant	5 (Max.)	ASTM D150		
	Flammability				
14	Flammability	Pass	UL-94 (V-1)		

Heat Shrink Sleeves Selection Chart



Size	Inside diameter as supplied D (mm), min.		Suitable for Bus-bar	
		Inside diameter after shrunk D1 (mm), max.	Rectangular bars L+T(mm)	Round bars d(mm)
15/6	15	6	12~18	7~12
25/8	25	10	15~24	10~16
30/12	30	12	22~38	16~25
40/16	40	16	30~45	20~30
50/20	50	20	36~65	25~40
65/25	65	26	52~70	35~45
75/30	75	30	55~95	40~60
85/35	85	34	60~100	45~65
100/40	100	40	70~130	50~80
120/50	120	48	90~165	70~100
150/60	150	60	105~160	80~130
180/70	180	70	125~235	90~150
210/85	210	85	140~260	95~170

Round sectional up to 24 kV

Rectangular sectional up to 24 kV

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Rated Voltage (kV)	Minimum Clearance	Clearance Required (mm)		Minimum Clearance Required (mm)	
	SMW		Rated Voltage	SMW	
	Electrode to Electrode	Electrode to Ground	(kV)	Electrode to Electrode	Electrode to Ground
12	55	65	12	65	75
24	100	130	24	120	150
36	160	210	36	200	285

Round sectional up to 36 kV

Rectangular sectional up to 36 kV

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Rated Voltage (kV)	Minimum Clearance	Minimum Clearance Required (mm)		Minimum Clearance Required (mm)	
	SHW		Rated Voltage	SHW	
	Electrode to Electrode	Electrode to Ground	(kV)	Electrode to Electrode	Electrode to Ground
12	30	40	12	40	50
24	60	90	24	70	110
36	100	160	36	145	190