



## 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.

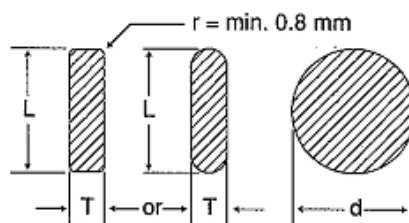
### Features:-

- 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
<b>Physical</b>			
1	Tensile Strength	11 N/mm <sup>2</sup> (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 <sup>3</sup>	ASTM D792
5	Hardness	45 ± 10 Shore D	ASTM D2240
6	Water Absorption	0.5 % (max.)	ASTM D570
<b>Thermal</b>			
7	Accelerated Ageing for 120°C for 400 Hrs		
	Tensile Strength	9 N/mm <sup>2</sup> (Mpa) (min.)	ESI 09-13
	Ultimate Elongation	400 % (Min.)	ESI 09-13
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
<b>Electrical</b>			
11	Dielectric Strength	23 KV/mm. (Min.)	ASTM D149
12	Volume Resistivity	7.7 x 10 <sup>15</sup> Ohm.cm	ASTM D257
13	Dielectric Constant	5 (Max.)	ASTM D150
<b>Flammability</b>			
14	Flammability	Pass	UL-94 (V-1)

# Heat Shrink Sleeves Selection Chart



## Size and selection information for 1~25Kv

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

## Size and selection information for 25~40.5kV

Size	Inside diameter as supplied D(mm), min.	Inside diameter after shrunk D1(mm), max.	Suitable for busbars	
			Rectangular bars L+T(mm)	Round bars d(mm)
SHW 25/10	25	10	22~28	14~20
SHW 30/12	30	12	22~38	16~25
SHW 40/16	40	16	30~48	20~30
SHW 50/20	50	20	40~65	25~40
SHW 65/26	65	26	50~75	30~50
SHW 75/30	75	30	55~90	40~60
SHW 85/34	85	32	65~100	50~70
SHW 100/40	100	40	75~120	60~85
SHW 120/48	120	48	90~160	65~105
SHW 150/60	150	60	110~190	75~125
SHW 180/70	180	70	145~225	100~155