

Heat Shrink Busbar Insulation Tubing

This heat shrink tubing is designed to insulate busbars, reducing electrical clearance and increasing insulation. It provides protection against tracking, corrosion, UV exposure, and weathering.



Overview

High-Performance Busbar Insulation

The MBT/MBTH heat-shrinkable busbar insulation tubing is engineered for medium voltage substations up to 36kV. This solution effectively reduces electric clearance and enhances insulation between busbars, significantly improving safety and equipment reliability. Designed for durability, the tubing offers excellent resistance to tracking, corrosion, UV exposure, and weathering, ensuring long-term performance in demanding electrical environments.

Technical Specifications

Heat Shrinkable Busbar Insulation Tubing

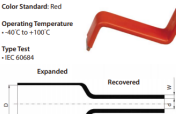
Application
- Used in medium voltage substations up to 36kV to reduce electric clearance and increase insulation between busbars.

Feature
- Anti-tracking
- Excellent corrosion resistance
- UV resistance and weathering resistance
- Superior electrical and mechanical properties

Color Standard Red

Operating Temperature
-40°C to +100°C

Type Test
IEC 60684



Type	Expansion Ratio	Recommendation	Type	Expansion Ratio	Recommendation
Outer	Inner	Min/Max	Outer	Inner	Min/Max
MBT-10	10	12 / 8	MBTH-25/10	25	10 / 4.3
MBT-16	16	20 / 10	MBTH-40/16	40	16 / 4.3
MBT-25	25	30 / 15	MBTH-65/25	65	25 / 4.3
MBT-36	36	45 / 20	MBTH-100/40	100	40 / 4.3

Installation and sizing guide for MBT and MBTH series tubing.

Standard Color

Red

Operating Temperature

-40°C to +100°C

Max Rated Voltage

36 kV

Compliance Standard

IEC 60684

Performance Metrics

Key Electrical Properties

12 KV/mm

Dielectric Strength

12 10¹² Ωm

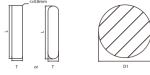
Volume Resistivity

Mechanical Properties

- Tensile strength > 8MPa
- Elongation at break > 200%
- Anti-tracking Class 2A 2.5KV/30min
- Flame propagation: Burning time d 60s

Application Data

Application Range



Type	Rectangular Busbar (L-Shape)		Round Busbar (Square)	
	min	max	min	max
MBT-12A	12	18	12	18
MBT-16A/12	16	24	16	24
MBT-16B/12	16	24	22	30
MBT-16C/12	16	24	26	36
MBT-16D/12	16	24	30	42
MBT-16E/12	16	24	35	48
MBT-16F/12	16	24	40	54
MBT-16G/12	16	24	45	60
MBT-16H/12	16	24	50	66
MBT-16I/12	16	24	55	72

Type	Rectangular Busbar (L-Shape)		Round Busbar (Square)	
	min	max	min	max
MBT-17.5A/12	17.5	26.25	17.5	26.25
MBT-17.5B/12	17.5	26.25	22.5	33.75
MBT-17.5C/12	17.5	26.25	26.25	39.375
MBT-17.5D/12	17.5	26.25	30	45
MBT-17.5E/12	17.5	26.25	33.75	50.625
MBT-17.5F/12	17.5	26.25	37.5	56.25
MBT-17.5G/12	17.5	26.25	41.25	61.875
MBT-17.5H/12	17.5	26.25	45	67.5
MBT-17.5I/12	17.5	26.25	48.75	73.125

Sizing guide for both rectangular and round busbar configurations.

Creepage Distance Specifications (mm)

Rated Voltage (kV)	MBT ph-ph	MBT ph-gnd	MBTH ph-ph	MBTH ph-gnd
12	65	75	35	45
17.5	85	105	55	65
24	115	150	70	100
36	200	285	140	190