

QBM, QBT



**HALOGEN FREE, HEAT SHRINKABLE, 11-36kV
BUS BAR INSULATION PROTECTION TUBING
SHRINK RATIO 2.5:1**

Features/Applications

Made from specially formulated radiation cross-linked halogen-free compounds. The carefully produced product can provide high resistance to tracking and arcing. Used to enhance the insulation properties of bus bar in switchgear and substations. The continuous length of supplied products makes it more convenient and economical.



- Operating temperature: -55°C to +105°C
- Halogen free
- Minimum shrink temperature: 110°C
- RoHS Compliant

Technical Data		
Property	Test Method	Typical Data
Tensile Strength	ASTM D 2671	≥ 11.8 MPa
Tensile Strength After Aging (120°C, 168 hrs.)	ASTM D 2671	≥ 10MPa
Longitudinal Shrinkage	ASTM D 2671	0 to -10%
Elongation at Break (120°C, 168 hrs.)	ASTM D 2671	≥ 700%
Elongation at Break After Aging	ASTM D 2671	≥ 500%
Dielectric Strength	IEC 243	≥ 20kV/mm
Dielectric Constant	QBT - IEC 250	Max. 3.0
Volume Resistance	IEC 93	≥ 10 ¹³ Ω.cm (min.)
Flammability (Oxygen Index)	QBM - ASTM D 2863, QBT - ASTM D 4589	≥ 25
Copper Corrosion (QBT) (120°C, 168 hrs.)	ASTM D 2671	No corrosion
Cold Bend (QBT) (-40°C, 4 hrs.)	ASTM S 2671	No cracking
Water Absorption (23°C, 14 days)	ISO 62	< 0.5%

Product Dimensions QBM-Medium Wall Bus Bar Tubing 11kV-24kV

Size (mm)	As Supplied (mm)		After Recovered (mm)		Tubing Shape	Standard Spool *(SS) (Meter)
	Inside Diameter (min.)	Outside Diameter (max.)	Inside Diameter (max.)	Wall Thickness (min)		
Continuous Length Tubing						
25/10	25	35	10	2.0	Flat	30
30/12	30	40	12	2.0	Flat	30
35/14	35	45	14	2.0	Flat	30
40/16	40	50	16	2.0	Flat	30
50/20	50	60	20	2.0	Flat	15
65/25	65	75	25	2.0	Flat	15
75/30	75	85	30	2.0	Flat	15
100/40	100	110	40	2.0	Flat	15
Cut Length Tubing						Standard Packaging *(QB) (mm)
150/60	150	165	60	3.0	Flat	1000
180/70	180	195	70	3.0	Flat	1000
205/75	205	220	75	3.3	Flat	1000
235/75	235	250	75	3.3	Flat	1000

Product Dimensions QBT-Medium Wall Bus Bar Tubing 11kV, 24kV, 36kV

Size (mm)	As Supplied (mm)	After Recovered (mm)		Rectangular Bus Bar (mm)		Round Bus Bar (mm)		Standard Spool *(SS) (Meter)
	Inside Diameter (min.)	Inside Diameter (max.)	Wall Thickness (min)	Width	Height	Outer Diameter	Inner Diameter	
18/6	18	6	2.0	6.4	19	6.8	15.0	15
30/12	30	12	2.3	15.0	30	12.7	25.4	15
40/16	40	16	2.5	27.0	45	17.0	32.0	15
50/20	50	20	2.5	32.0	51	21.0	40.0	15
65/25	65	25	2.5	45.0	75	26.0	52.0	15
75/30	75	30	2.6	48.0	85	31.0	60.0	15
100/40	100	40	2.6	73.0	120	45.0	80.0	15
120/50	120	50	3.0	69.8	111	50.0	90.0	15

Notes:

- * See Part Number Guide for standard packaging codes.
- Special sizes, packaging, colors and cut pieces are available upon request.