

QBTM, QBTH RoHS Compliant

HALOGEN FREE, HEAT SHRINKABLE, 24-36kV
BUS BAR INSULATION PROTECTION TUBING



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
- Minimum shrink temperature: 120°C
- RoHS Compliant
- Halogen free
- UV and weather resistant

Technical Data

| Property | Test Method | Typical Data |
|--|-----------------------------|-------------------------|
| Tensile Strength | ASTM D 2671 | ≥ 14MPa |
| Ultimate Elongation | ASTM D 2671 | ≥ 800% |
| Longitudinal Shrinkage | ASTM D 2671 | 0 to -10% |
| Heat Aging Tensile Strength (120°C, 168 hrs.) Ultimate Elongation | ASTM D 2671 | > 10MPa > 200% |
| Dielectric Strength | IEC 243 | ≥ 19kV/mm |
| Dielectric Constant | IEC 250 | ≤ 3.5 |
| Volume Resistance | IEC 93 | ≥ 10 ¹⁴ Ω.cm |
| Flammability (Oxygen Index) | ISO 4589 | ≥ 25 |
| Copper Corrosion | UL 224 | No corrosion |
| Cold Bend | ASTM D 2671 (-40°C, 4 hrs.) | No cracking |
| Water Absorption | ISO 62 (23°C, 14 days) | < 0.5% |

Product Dimensions QBTM-Medium Wall Bus Bar Tubing 24kV

| Size (mm) | As Supplied (mm) | | After Recovered (mm) | | Tubing Shape | Standard Spool *(SS) (Meter) |
|---------------------------------|------------------------|------------------------|------------------------|----------------------|--------------|-------------------------------|
| | Inside Diameter (min.) | Inside Diameter (max.) | Inside Diameter (max.) | Wall Thickness (min) | | |
| Continuous Length Tubing | | | | | | |
| 15/6 | 15 | 6 | 2.0 | Flat | 30 | |
| 30/12 | 30 | 12 | 2.3 | Flat | 30 | |
| 40/16 | 40 | 16 | 2.5 | Flat | 30 | |
| 50/20 | 50 | 20 | 2.5 | Flat | 15 | |
| 65/25 | 65 | 25 | 2.5 | Flat | 15 | |
| 75/30 | 75 | 30 | 2.6 | Flat | 15 | |
| 100/40 | 100 | 40 | 2.8 | Flat | 15 | |
| 120/50 | 120 | 50 | 2.8 | Flat | 15 | |
| Cut Length Tubing | | | | | | Standard Packaging *(QB) (mm) |
| 150/60 | 150 | 60 | 3.3 | Round | 1000 | |
| 180/60 | 180 | 60 | 3.3 | Round | 1000 | |
| 205/75 | 205 | 75 | 3.8 | Round | 1000 | |
| 235/75 | 235 | 75 | 3.8 | Round | 1000 | |

Product Dimensions QBTH-Heavy Wall Bus Bar Tubing 36kV

| Size (mm) | As Supplied (mm) | | After Recovered (mm) | | Tubing Shape | Standard Spool *(SS) (Meter) |
|---------------------------------|------------------------|------------------------|------------------------|----------------------|--------------|-------------------------------|
| | Inside Diameter (min.) | Inside Diameter (max.) | Inside Diameter (max.) | Wall Thickness (min) | | |
| Continuous Length Tubing | | | | | | |
| 25/10 | 25 | 10 | 4.0 | Flat | 15 | |
| 40/16 | 40 | 16 | 4.0 | Flat | 15 | |
| Cut Length Tubing | | | | | | Standard Packaging *(QB) (mm) |
| 65/25 | 65 | 25 | 4.0 | Round | 1000 | |
| 75/25 | 75 | 25 | 4.0 | Round | 1000 | |
| 95/30 | 95 | 30 | 4.0 | Round | 1000 | |
| 120/40 | 120 | 40 | 4.2 | Round | 1000 | |
| 180/58 | 180 | 58 | 4.2 | Round | 1000 | |

Notes:

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