

QDWT

SEMI-CONDUCTING / INSULATION, DOUBLE LAYER, UP TO 36kV
HEAT SHRINKABLE TUBING
SHRINK RATIO 3:1

Features/Applications

QDWT is double layer semi-conductive heat shrinkable tubing. The inner layer is made from insulation material to provide high insulation and the external layer is made from semi-conductive materials to provide electric shielding. The tubing is manufactured with technology very suitable for applications in power cable joints up to 36kV.

- Operating temperature: -45°C to +100°C
- Minimum shrink temperature: 100°C
- Full Recovery Temperature: 130°C
- Standard color: Black
- RoHS Compliant
- Two layer
- Semi-conductive



Specification Values for Inner Layer

Property	Test Method	Typical Data
Tensile Strength	ASTM D 2671	≥ 12 MPa min.
Elongation at Break	ASTM D 2671	≥ 300% min.
Water Absorption	ISO 62	< 0.5% max.
Volume Resistance	IEC 93	≥ 10 ¹⁴ Ω.cm (min.)
Dielectric Strength	IEC 243	≥ 20kV / mm (min.)
Density	ASTM D 257-98	1.1 g/cm ³

Specification Values for External Layer

Property	Test Method	Typical Data
Tensile Strength	ASTM D 638	≥ 14 MPa min.
Elongation at Break	ASTM D 638	≥ 300% min.
Water Absorption	ISO 62	< 0.5% max.
Volume Resistance	IEC 93	< 10 ⁴ Ω.cm (min.)
Density	ASTM D 257-98	1.2 g/cm ³

Product Dimensions

Size (mm)	As Supplied (mm)	After Recovered (mm)		Inner Insulation Layer Wall Thickness (mm)	Standard Packaging *(QB) (mm)
	Inside Diameter (min.)	Inside Diameter (max.)	Total Wall Thickness (nom.)		
36/12	36	12	6.0	5.0	1000
45/15	45	15	6.0	5.0	1000
55/18	55	18	6.0	5.0	1000
62/18	62	18	6.5	5.5	1000
65/22	65	22	6.6	5.6	1000
73/26	73	26	6.6	5.6	1000
85/30	85	30	6.5	5.6	1000
100/38	100	38	6.6	5.6	1000
120/45	120	45	7.0	5.7	1000
140/50	140	50	7.0	5.7	1000

Notes:

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