

# Heavy Wall Busbar Insulating Tubes



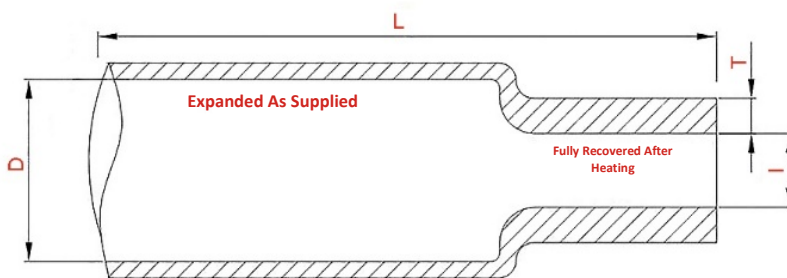
REPL International Ltd UK/Hi-Power Correlation

## RIBT-T

REPL Heat Shrinkable Busbar Heavy Wall Insulating Tubes (RIBT-T) are used to insulate copper and aluminium busbars, preventing flashovers and accidentally induced discharge.

The tubes are made from thermally stabilized, cross linked, non-tracking and weather resistant polymeric material and have a nominal shrink ratio of 3:1 and an unlimited shelf life when stored at normal warehouse temperatures.

- Halogen Free
- Tracking Resistant
- UV & Weather Resistant
- Shrink Ratio: 3:1
- Minimal Shrink Temperature: 120°C



\*Drawing depicts typical dimensions (Dimensions are all in mm)

MATERIAL SPECIFICATIONS		
CHARACTERISTIC	VALUE	TEST METHOD
<b>Physical Properties</b>		
Specific Gravity	1.19 ± 0.2	ASTMD - 1505
Water Absorption	1% (max)	ASTM D - 570/ISO 62
Tensile Strength	≥ 14 MPa	ASTM D - 2671
Ultimate Elongation	≥ 300% (min)	ASTM D - 2671
Hardness	45 ± 3 Shore D	ASTM D - 2240
Longitudinal Change	± 10 %	ESI 09 - 13
Shrink Temperature	120°C (min)	IEC - 216
<b>Thermal Ageing Tests (120°C ± 3°C for 168 hours)</b>		
Ultimate Elongation	≥ 200% (min)	ASTM D - 2671
Tensile Strength	≥ 10 MPa	ASTM D - 2671
<b>Thermal Tests</b>		
Heat Shock (30min, 200°C)	No Cracking / No Flow	ESI 09-13
Low Temp. Flexibility (-40%)	No Cracking	ASTM D - 2671
Flammability	Self-Extinguishing	ASTM D - 2671 - B
<b>Electrical Properties</b>		
Dielectric Strength	≥ 19 kV/mm (min)	ASTM D - 149 / IEC 243
Dielectric Constant	≤ 3.5	ASTM D - 150 / IEC 250
Volume Resistivity	1x10 <sup>14</sup> Ohm-cm (min)	ASTM D - 257 / IEC 93
Resistant to Tracking & Erosion	No Tracking, erosion or flame failure up to 3.25kV for 20 mins	ASTM D - 2303
<b>Chemical Properties</b>		
Fungus Resistance	1 (max)	ASTM G - 21
Chemical resistance immersion in following liquids NaOH (40%), H <sub>2</sub> SO <sub>4</sub> (3%), Toluene acetone for 24 hrs at room temperature	Good (no visual defects)	ISO 175

PRODUCT DIMENSIONS – RIBT-T Series			
CODE	D (mm)		T (mm)
	E	S	S
RIBT-T 15/6 *	15	6	± 0.2
RIBT-T 20/8 *	20	8	± 0.2
RIBT-T 25/10 *	25	10	± 0.2
RIBT-T 30/12 *	30	12	± 0.2
RIBT-T 40/16 *	40	16	± 0.2
RIBT-T 50/20 +	50	20	± 0.2
RIBT-T 60/24 +	60	24	± 0.2
RIBT-T 70/28 +	70	28	± 0.2
RIBT-T 80/32 +	80	32	± 0.2
RIBT-T 100/40 +	100	40	± 0.2
RIBT-T 120/48 +	120	48	± 0.2

E – As Supplied | S – After Free Recovery

\* Available in 30 meter spools

+ Available in 15 meter spools

- Custom sizes are available on request with minimum volume requirements

See overleaf for recommendations on application range and clearance reduction ...



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