

## BUSBAR INSULATION TAPE (LVBT)

### LOW VOLTAGE

#### KEY FEATURES

- Compatible with all other products in low voltage insulation range
- Gives excellent electrical performance
- Continuous operating temperature rating up to 70°C
- Flame retardant
- Quick and easy to install
- UV resistant
- Good thermal emissivity and contact
- Can be stored indefinitely up to temperatures of 50°C

TE Connectivity's (TE) Raychem low voltage busbar tape (LVBT) is a black, general purpose, adhesive coated, heat-shrinkable insulation tape for applications up to 1 kV.

Designed to be compatible with other products in the low voltage insulation range, it is suitable for complex busbar geometries and restricted access areas. Where no open end is available or when equipment cannot be dismantled, this wraparound product provides the optimum solution.

When LVBT tape is wrapped around a substrate and shrunk down by applying heat, the clear adhesive melts and amalgamates the overlapping layers of tape together forming a wraparound tube.

Although it sticks to itself, LVBT tape does not adhere to busbars or hardware and can be easily removed for maintenance.

LVBT will provide flashover protection up to 1 kV in applications where tubing is not suitable for use. It can be used for both indoor and outdoor applications and is easily installed over a wide variety of substrate shapes including complex connections.

**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**

## Busbar Insulation tape LVBT



TECHNICAL INFORMATION		
Key Material Properties	Test Method	Results
<b>Physical</b>		
Resistance to transformer oil - Tensile strength - Ultimate elongation	VDE 0370	168 hrs at 23 °C 11 MPa (1600 psi) min. 300% min.
Water absorption (24 hrs at 23°C)	ASTM D570	0.2% max.
Low temperature flexibility 4 hrs at -40 °C	ASTM D267	No cracking
<b>Electrical</b>		
Dielectric strength 2,5 mm thickness	ASTM D149	>130 kV/cm (330 V/mil)
Volume resistivity	ASTM D257	$1 \times 10^{13}$ Ohm cm min.

The above information refers to backing material only.

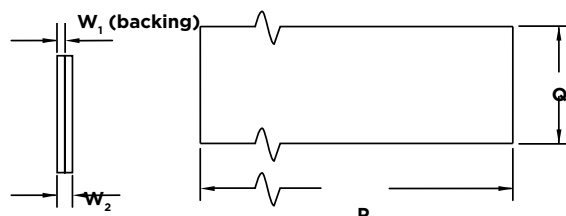
PRODUCT SELECTION INFORMATION		
Description	Busbar Width: mm (Inches)	Busbar Length Insulated per Roll m (yards)
<b>Rectangular Busbars</b>		
LVBT-1-R-01 (B8)	25 (1)	1.2 (1.3)
LVBT-2-R-01 (B4)	50 (2)	1.5 (1.6)
LVBT-2-R-01 (B4)	75 (3)	1.1 (1.2)
LVBT-2-R-01 (B4)	100 (4)	0.8 (0.9)
LVBT-2-R-01 (B4)	150 (6)	0.6 (0.65)
LVBT-4-R-01 (B2)	200 (8)	0.9 (1)
<b>Round Busbars</b>		
	Busbar Diameter: mm (Inches)	Busbar Length Insulated per Roll m (yards)
LVBT-1-R-01 (B8)	12 (0.5)	2.4 (2.6)
LVBT-2-R-01 (B4)	25 (1)	2.4 (2.6)
LVBT-2-R-01 (B4)	50 (2)	1.2 (1.3)
LVBT-2-R-01 (B4)	75 (3)	0.8 (0.9)
LVBT-4-R-01 (B2)	100 (4)	1.2 (1.3)

Note: Dimensions in mm unless otherwise stated.

ORDERING INFORMATION					
Description	Q a min.	W <sub>1</sub> a min.	W <sub>1</sub> b nom.	W <sub>2</sub> b min.	UOM: roll of length, P (m)
LVBT-1-R-01 (B8)	25	0,4	0,6	1,0	8
LVBT-2-R-01 (B4)	50	0,4	0,6	1,0	8
LVBT-4-R-01 (B2)	100	0,4	0,6	1,0	8

Note: Dimensions in mm unless otherwise stated. a = as supplied b = after free recovery. Maximum longitudinal change after free recovery: -50 %.

Installation instructions EPP 0621 5/96 and Material Safety Data Sheet available on request.



\* Drawings related to Ordering Information chart.

TECHNICAL REPORT	
EDR-5490	LVBT Product Qualification Report
UVR 8148	LVBT Product Qualification Report

INSTALLATION INSTRUCTIONS	
PII-51070	Installation Instructions for Low Voltage Busbar Tape

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