

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.

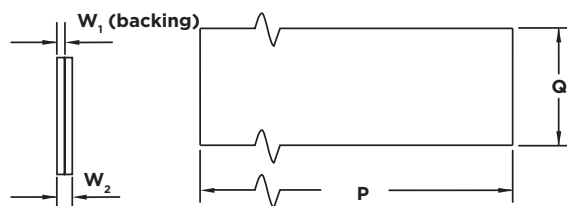
When LVBT tape is wrapped around a substrate and shrunk down by applying heat, the clear adhesive melts and amalgamates the overlapping layers of tape together forming a wraparound tube.

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

TE's Raychem low voltage busbar tape (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.

Insulation Tape (LVBT)



* Drawings related to Ordering Information chart.

TECHNICAL INFORMATION

Properties	Test Method	Results
Dielectric strength	ASTM D149, IEC 243	130 kV/cm min. at 2,5 mm
Low temperature flexibility	ASTM D267, Procedure C	No cracking after 4 hrs at -40 °C
Volume resistivity	ASTM D257, IEC 93	1 x 10 ¹³ Ohm cm min.
Water absorption	ISO 62, ASTM D570	24 hrs at 23°C, 0.2% max.
Resistance to transformer oil - Tensile strength - Ultimate elongation	VDE 0370	168 hrs at 23 °C 11 MPa min. 300% min.

Note: For further product specification information see PPS 3010/33.
The above information refers to backing material only, for adhesive requirements see PPS 3012/13.

PRODUCT SELECTION INFORMATION

Description	Width (mm)	Length Insulated/Roll (m)
Rectangular Busbars		
LVBT-1-R-01 (B8)	25	1,2
LVBT-2-R-01 (B4)	50	1,5
LVBT-2-R-01 (B4)	75	1,1
LVBT-2-R-01 (B4)	100	0,8
LVBT-2-R-01 (B4)	150	0,6
LVBT-4-R-01 (B2)	200	0,9
Round Busbars		
LVBT-1-R-01 (B8)	12	2,4
LVBT-2-R-01 (B4)	25	2,4
LVBT-2-R-01 (B4)	50	1,2
LVBT-2-R-01 (B4)	75	0,8
LVBT-4-R-01 (B2)	100	1,2

Note: Dimensions in mm unless otherwise stated.

ORDERING INFORMATION

Description	Q a min.	W ₁ a min.	W ₁ b nom.	W ₂ 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.

TECHNICAL REPORT

UVR 8148 - Qualification report for LVIT tubing
UVR 8023 - Qualification report for HVBT tape

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