

BUSBAR INSULATION TAPE (LVBT)

LOW VOLTAGE

KEY FEATURES

- Compatible with all other products in the 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)

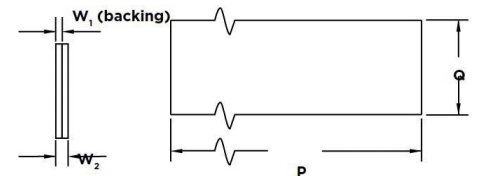


TECHNICAL INFORMATION		
Properties	Test Method	Requirement
Physical		
Tensile Strength	ASTM D412	12 MPa min.
Ultimate Elongation	ASTM D412	350% min.
Hardness	ISO 868	30-50 Shore D
Accelerated Aging 168 hrs at 150 °C (302 °F) Ultimate Elongation Tensile Strength	ASTM D2671	11 MPa min. 300% min.
Thermal endurance	IEC 60216	125°C (257 °F)
Flammability	ANSI C37.20	60 seconds max.
Resistance to Transformer Oil (VDE 0370) 168 hrs at 23 °C (73 °F) Ultimate Elongation Tensile Strength	ASTM D543	11 MPa min. 300% min.
Electrical		
Dielectric Strength (2.5 mm)	ASTM D149	13 kV/mm min. 330 V/mil min.
Dielectric Constant	IEC 60250	6.5 max.
Volume Resistivity	ASTM D257	1E+15 Ωcm min.

PRODUCT SELECTION INFORMATION		
Description	Busbar Width: mm (inches)	Busbar Length Insulated per Roll m (yards)
Rectangular Busbars		
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)
Description	Busbar Diameter: mm (inches)	Busbar Length Insulated per Roll m (yards)
Round Busbars		
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)

TECHNICAL REPORT	
PPR-3607	LVBT Material Qualification Report
PPR-3614	LVBT Product Qualification Report

INSTALLATION INSTRUCTIONS	
EPP-0621	Installation Instructions for Low Voltage Busbar Tape (LVBT)



* Drawings related to Ordering Information chart.

ORDERING INFORMATION - PRODUCT DESCRIPTION						
Description	Q min. Inches (mm)	W1 _a max. inches (mm)	W1 _b nom. inches (mm)	W2 _b min. inches (mm)	Roll Length P inches (m)	Qty per Pack
LVBT-1-R-01 (B8)	1 (25)	0.016 (0.4)	0.024 (0.6)	0.04 (1)	315 (8)	8 Rolls
LVBT-2-R-01 (B4)	2 (50)	0.016 (0.4)	0.024 (0.6)	0.04 (1)	315 (8)	4 Rolls
LVBT-4-R-01 (B2)	4 (100)	0.016 (0.4)	0.024 (0.6)	0.04 (1)	315 (8)	2 Rolls

Note: W1_a = as supplied W1_b and W2_b = after free recovery. Maximum longitudinal change after free recovery: -50 %. Material Safety Data Sheet available on request.

Learn more: [TE.com/energy](https://www.te.com/energy)

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