# 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)

## TECHNICHAL 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

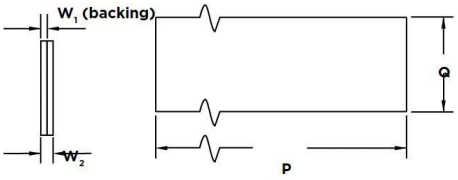
| Description | Busbar Width: mm (inches) | Busbar Length Insulated per Roll m (yards) |
|---|---|---|
| Rectangular Busbars | | |
| LVBT-1-R-01 (B8) | 25 (1) | 1.2 (1.3) |
| LVBT-2-R-01 (B4) | 50 (2) | 1.5 (1.6) |
| LVBT-2-R-01 (B4) | 75 (3) | 1.1 (1.2) |
| LVBT-2-R-01 (B4) | 100 (4) | 0.8 (0.9) |
| 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.

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