



Raychem Low Voltage Busbar Insulation Tape LVBT

Product description

Raychem 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 Raychem 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 Raychem tape LVBT 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, Raychem tape LVBT does not adhere to busbars or hardware and can be easily removed for maintenance.

Applications

Raychem 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.

Features/benefits

- Compatible with all other products in the Raychem low voltage insulation range
- Gives excellent electrical performance
- Continuous operating temperature rating up to 70°C

- Flame retarded
- Quick and easy to install using readily available tools
- UV resistant making it suitable for indoor and outdoor applications
- Electrical and mechanical performance are retained after cleaning with hydrocarbon solvents
- Good thermal emissivity and contact with busbars means no derating is needed
- Can be stored indefinitely up to temperatures of 50°C without loss of performance

Raychem Low Voltage Busbar Insulation Tape LVBT

Key product specifications	Test method	Requirement
Dielectric strength	ASTM D149, IEC 243	130 kV/cm min. @ 2.5 mm
Low temperature flexibility	ASTM D2671 Procedure C	No cracking after 4 hrs @ -40°C
Volume resistivity	ASTM D257, IEC 93	1 x 10 ¹⁵ Ohm cm min.
Water absorption	ISO 62, ASTM D570	24 hrs @ 23°C, 0.2% max.
Resistance to transformer oil	VDE 0370	168 hrs @ 23°C
-Tensile strength		11 MPa min.
-Ultimate elongation		300% min.

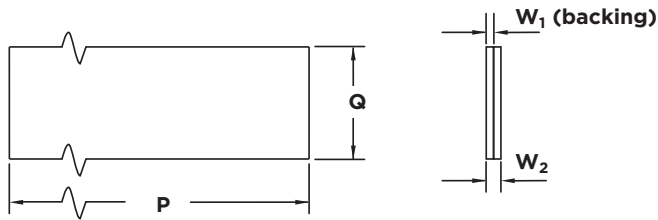
Note: For further product specification see Raychem PPS 3010/06. The above information refers to backing material only, for adhesive requirements see PPS 3012/13.

Product selection

Rectangular busbars width (mm)	Product description	Length insulated/roll (m)	Round busbars diameter (mm)	Product description	Length insulated/roll (m)
25	LVBT-1-R	1.2	12	LVBT-1-R	2.4
50	LVBT-2-R	1.5	25	LVBT-2-R	2.4
75	LVBT-2-R	1.1	50	LVBT-2-R	1.2
100	LVBT-2-R	0.8	75	LVBT-2-R	0.8
150	LVBT-2-R	0.6	100	LVBT-4-R	1.2
200	LVBT-4-R	0.9			

Note: Dimensions in mm unless otherwise stated.

Ordering information



Ordering description min	Q a min	W ₁ a min	W ₁ b nom	W ₂ b (m)	UOM: roll of length, P
LVBT-1-R	25	0.4	0.6	1.0	8
LVBT-2-R	50	0.4	0.6	1.0	8
LVBT-4-R	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 reports

Raychem tape LVBT uses the same backing material as Raychem tubing LVIT and the same adhesive as Raychem tape HVBT, please refer to the following test reports:

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

While TE Connectivity (TE) has made every reasonable effort to ensure the accuracy of the information in this catalog, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications. Raychem, TE Connectivity and TE connectivity (logo) are trademarks.

TE Energy - innovative and economical solutions for the electrical power industry: cable accessories, connectors & fittings, insulators & insulation, surge arresters, switching equipment, street lighting, power measurement and control.

Tyco Electronics Raychem GmbH
a TE Connectivity Ltd. Company
TE Energy
Finsinger Feld 1
85521 Ottobrunn/Munich, Germany

Phone: +49-89-6089-0
Fax: +49-89-6096345

energy.te.com

