

HIGH VOLTAGE BUSBAR INSULATION TAPES

WILDLIFE AND ASSET PROTECTION PRODUCTS

KEY FEATURES

- Compatible with TE's Raychem medium voltage insulation enhancement systems
- Easy to apply using readily available equipment
- Indoor and outdoor use
- Anti-tracking properties
- Continues operating temperature up to 90°C
- Versatile and flexible at temperatures as low as -40°C

TE Connectivity's (TE) Raychem High Voltage Busbar insulation Tapes HVBT are heat shrink, adhesive-coated tapes which provide insulation enhancement and protection against accidentally induced flashovers. TE's Raychem HVBT are designed to combine the integrity of a heat shrink tubing with the versatility of wraparound products.

Our HVBT are quick and easy to install. Upon application of heat the tapes shrink and the adhesive lining melts, amalgamating the overlapping layers to produce a complete lap to lap seal. A single layer of the HVBT, two-thirds overlapped, will provide AC voltage withstand (flashover protection) to at least 17.5 kV increasing to 36 kV if a second layer is applied.

Although the HVBT will adhere to themselves and other insulating materials, they will not adhere to metal or porcelain, allowing easy removal for maintenance.

Our HVBT offer a simple and effective solution to the problems of retrofit insulation of busbars, particularly where existing equipment cannot be dismantled. They can be used for indoor and outdoor applications and are easily installed over a wide variety of 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.

High Voltage Busbar Insulation Tapes HVBT



TE's wildlife and asset protection products and systems of tubing, tapes, sheets, pre-formed covers and barriers provide a proven, cost-effective and easy-to-install solution to bird, animal and weather related outages.

PRODUCT PERFORMANCE

Key Material Properties	Test Method	Required
Physical		
Resistance to Transformer Oil - Tensile Strength - Ultimate Elongation	VDE 0370	168hrs. at 23°C, 10MPa (1450 psi) min., 300% min.
Low Temperature Flexibility 4hrs at -40°C	ASTM D2671, Procedure D	No Cracking
Accelerated Ageing 168hrs at 120°C Tensile Strength	ASTM D638	10MPa (1450 psi)
Accelerated Ageing 168hrs at 120°C Ultimate Elongation	ASTM D638	300% min.
Electrical		
Dielectric Strength	ASTM D149, IEC 243	130 kV/cm (330 V/mil)
Volume Resistivity	ASTM D257, IEC 93	1 x 10 ¹³ Ohm cm min.
Smoke Index	NES 711	Less than 50
Acid gas generation	TE's Raychem PPS 3010 4.23	Less than 3% by weight

Note: The above information refers to the backing material only.

PRODUCT PERFORMANCE

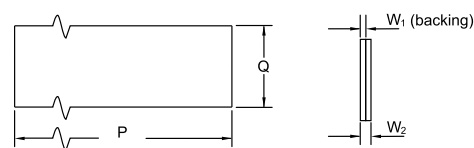
Product Description	Rectangular Busbar Width: inches (mm)	Length needed per coverage distance Feet (Meters)
HVBT-1-R-01(B8)	1 (25)	33 (10.0)
HVBT-2-R-01(B4)	2 (50)	25 (7.6)
HVBT-2-R-01(B4)	3 (75)	38 (11.4)
HVBT-2-R-01(B4)	4 (100)	52 (15.6)
HVBT-2-R-01(B4)	6 (150)	82 (25)
HVBT-4-R-01(B4)	8 (200)	52 (15.6)

PRODUCT PERFORMANCE

Product Description	Round Busbar Diameter: inches (mm)	Length needed per coverage distance Feet (Meters)
HVBT-1-R-01(B8)	0.5 (12)	16.5 (5)
HVBT-2-R-01(B4)	1 (25)	16.5 (5)
HVBT-2-R-01(B4)	2 (50)	33 (10)
HVBT-2-R-01(B4)	3 (75)	55 (16.7)
HVBT-4-R-01(B4)	4 (100)	33 (10)

PRODUCT SELECTION

Product Description	Dimensions				
	Q a min. (inches)	W1 a min. (inches)	W1 b min. (inches)	W2 b min. (inches)	UOM: Roll of length, P (feet)
HVBT-1-R-01 (8)	1	0.014	0.022	0.034	25
HVBT-2-R-01 (4)	2	0.014	0.022	0.034	24
HVBT-4-R-01 (2)	4	0.014	0.022	0.034	25



TECHNICAL REPORT

EDR-5466	HVBT Product Qualification Report
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INSTALLATION INSTRUCTIONS

EPP-0619-8/98	Installation Instructions for High Voltage Busbar Tapes HVBT
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