



HIGH VOLTAGE BUSBAR INSULATION TAPE

WILDLIFE AND ASSET PROTECTION PRODUCTS

KEY FEATURES

- Compatible with all Raychem MV 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 tape (HVBT) is a heat-shrinkable, adhesive-coated tape which provides insulation enhancement and protection against accidentally induced flashover. HVBT tape is designed to combine the integrity of a heat-shrinkable tubing with the versatility of a wraparound product.

HVBT tape is quick and easy to install. Upon application of heat the tape shrinks and the adhesive lining melts amalgamating the overlapping layers, to produce a complete lap to lap seal. A single layer of HVBT tape, 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 HVBT tape will adhere to itself and other insulating materials, it will not adhere to metal or porcelain, allowing easy removal for maintenance.

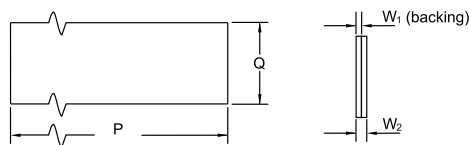
HVBT tape offers a simple and effective solution to the problems of retrofit insulation of busbars, particularly where existing equipment cannot be dismantled. It can be used for indoor and outdoor applications and is easily installed over a wide variety of shapes, including complex connections.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Raychem High Voltage Busbar Insulation Tape (HVBT)



TE's wildlife and asset protection products and systems of tubes, 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

TEST	Key Material Properties		Test Method		Required	
	Volume resistivity		ASTM D257, IEC 93		1 x 10 ¹³ Ohm cm min.	
	Smoke Index		NES 711		Less than 50	
	Acid gas generation		Raychem PPS 3010 4.23		Less than 3% by weight	
PHYSICAL	Accelerated aging		ISO 188, ASTM D2671		168 hrs. at 120°C, 10 MPa min., 300% min.	
	Tensile Strength					
	Ultimate elongation					
	Resistance to transformer oil		VDE 0370		168 hrs. at 23°C, 10 MPa min., 300% min.	
	Tensile Strength					
	Ultimate Elongation					
	Low Temperature Flexibility		ASTM D 2671, Procedure D		No cracking after 4 hrs. at -40°C	
	Dielectric strength		ASTM D149, IEC 243		130 kV/cm min.	
SELECTION	Rectangular		Length		Length	
	Busbar Width	Description	Needed/meter of Busbar	Round Busbar	Description	Needed/meter of Busbar
	1.0 (25)	HVBT-1-R-01	33 (10.0)	0.5 (12)	HVBT-1-R-01	16.5 (5.0)
	2.0 (50)	HVBT-2-R-01	25 (7.6)	1.0 (25)	HVBT-2-R-01	16.5 (5.0)
	3.0 (75)	HVBT-2-R-01	38 (11.4)	2.0 (50)	HVBT-2-R-01	33 (10.0)
	4.0 (100)	HVBT-2-R-01	52 (15.6)	3.0 (75)	HVBT-4-R-01	55 (16.7)
	6.0 (150)	HVBT-2-R-01	82 (25.0)	4.0 (100)	HVBT-4-R-01	33 (10.)
	8.0 (200)	HVBT-4-R-01	52 (15.6)			
APPLICATION	Description	Q a min.	W ₁ a min.	W ₁ b min.	w2 b min.	UOM: Roll of lenght, P
	<i>Dimensions in inches</i>					
	HVBT-1-R-01 (8)	1	.014	.022	0.034	25 feet
	HVBT-2-R-01 (4)	2	.014	.022	0.034	24 feet
	HVBT-4-R-01 (2)	4	.014	.022	0.034	25 feet
	<i>Note: a = as supplied, b = after free recovery</i>					

TECHNICAL REPORT

EDR-5466

Qualification report for HVBT

te.com/energy

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