

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 tapes are designed to combine the integrity of a heat shrink tubing with the versatility of wraparound products.

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

The HVBT tapes 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 tubes, tapes, sheets, pre-formed covers and barriers provide a proven, cost-effective and easy-to-install



ASTM D2671

ASTM D638

ASTM D638

ASTM D149

ASTM D257



70

95

150

RECTANGULAR BUSBARS			
Ratec Voltage (kV)	Phase- Phase (mm)	Phase- Ground (mm)	IEC 71-2 air clearance (mm)
12	65	75	120
17.5	85	105	160
24	115	150	220
36	200	285	320

85

125

205

160

220

320

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

23°C)

4hrs at -40°C

Electrical

thickness)

Volume Resistivity

Low Temperature Flexibility

Accelerated Ageing 168 hrs

at 120°C Ultimate Elongation

Dielectric Strength (2.0mm

at 120°C Tensile Strength Accelerated Ageing 168 hrs

PRODUCT PERFORMANCE			
Product Description	Rectangular Busbar Width: mm (inches)	Length of HVBT required per meter of Rectangular Busbar: M (yards)	
HVBT-12-A(B20)	25 (1)	10 (11)	
HVBT-14-A(B10)	50 (2)	7.6 (8.3)	
HVBT-14-A(B10)	75 (3)	11.4 (12.5)	
HVBT-14-A(B10)	100 (4)	15.6 (17)	
HVBT-14-A(B10)	150 (6)	25 (27.3)	
HVBT-16-A(B10)	200 (8)	15.6 (17)	

PRODUCT PERFORMANCE			
Round Busbar Diameter: mm (inches)	Length of HVBT required per meter of Round Busbar: M (yards)		
12 (0.5)	5 (5.5)		
25 (1)	5 (5.5)		
50 (2)	10 (11)		
75 (3)	16.7 (18.2)		
100 (4)	10 (11)		
	Round Busbar Diameter: mm (inches) 12 (0.5) 25 (1) 50 (2) 75 (3)		

17.5

24

36

No Cracking

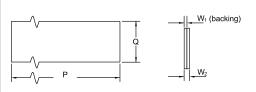
10MPa (1450 psi)

300% min.

>130 kV/cm (330 V/mil)

 1×10^{13} Ohm cm min.

PRODUCT SELECTION					
Product	Dimensions				
Description	Q a min. (mm)	W1 a min. (mm)	W1 b min. (mm)	W2 b min. (mm)	UOM: Roll of lenght, P (m)
HVBT-12-A(B20)	25	0.38	0.56	0.86	10
HVBT-14-A(B10)	50	0.38	0.56	0.86	10
HVBT-16-A(B10)	100	0.38	0.56	0.86	10



TECHNICAL REPORT		
EDR-5466	HVBT Product Qualification Report	
EDR-5422	HVBT Material Qualification Report	

INSTALLATION INSTRUCTIONS		
EPP-0619-8/98	Installation Instructions for High Voltage Busbar Tape (HVBT)	

te.com/energy

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