

# **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.

**ENERGY /// HIGH VOLTAGE BUSBAR INSULATION TAPES HVBT** 

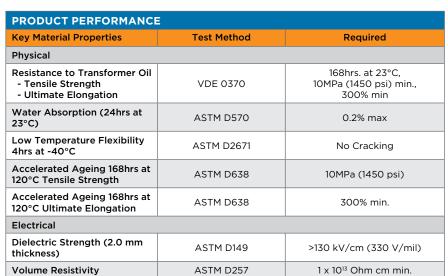






### **High Voltage Busbar Insulation Tapes HVBT**

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.



ROUND			
Ratec Voltage (kV)	Phase- Phase (mm)	Phase- Ground (mm)	IEC 71-2 air clearance (mm)
12	55	65	120
17.5	70	85	160
24	95	125	220
36	150	205	320

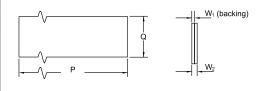
RECTANGULAR BUSBARS			
Ratec Voltage (kV)	Phase- Phase (mm)	Phase- Ground (mm)	IEC 71-2 air clearance (mm)
12	65	75	120
17.5	85	105	160
24	115	150	220
36	200	285	320

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

PRODUCT PERFORMANCE			
Product Description	Rectangular Busbar Width: mm (inches)	Length of HVBT required per meter of Rectangular Busbar: M (yards)	
HVBT-12-A(B10)	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)		

PRODUCT SELECTION					
Product Description	Dimensions				
	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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