

Bus Insulation And Wildlife Protection Products

BBIT/BPTM*Raysulate busbar insulating tubing (5–35 kV)****BBIT (5–35 kV)**

Heavy-wall tubing for use on straight or bent bars where maximum clearance reduction or 35 kV insulation is required.

BPTM (5–25 kV)

Medium-wall tubing for use on straight or bent bars where some clearance reduction or 25 kV insulation is required. These heat-shrinkable tubes for straight and bent busbars are extremely flexible, allowing them to

be easily positioned on busbars and quickly installed using a gas torch or oven. They have a high expansion ratio, so each size of tubing fits a range of busbar sizes. Both BBIT and BPTM tubing are ideal for original equipment assembly, and for retrofit applications where access to one end is available.

BBIT and BPTM tubings are also ideal for protection against accidental bridging caused by birds and animals.



Rated to ANSI/IEEE C37.20-1987

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Selection information (dimensions in inches/millimeters)**BBIT (5–35 kV)***

Catalog number	Busbar dimensions			BBIT tubing diameter as supplied and fully recovered
	Rectangular bar** (bus width)	Square bar (each side)	Round bar (diameter min.–max.)	
BBIT-25/10-A/U	0.5 (12)		0.50–0.70 (12–18)	0.98–0.39 (25–10)
BBIT-40/16-A/U	1.0 (25)		0.70–1.10 (18–28)	1.57–0.63 (40–16)
BBIT-65/25-A/U	2.0 (50)	1.0 (25)	1.10–1.55 (28–40)	2.56–0.98 (65–25)
BBIT-100/40-A/U	3.0 (75)	2.0 (50)	1.75–2.45 (44–62)	3.94–1.57 (100–40)
BBIT-150/60-A/U	4.0 (100)	3.0 (75)	2.60–3.60 (66–91)	5.91–2.36 (150–60)
BBIT-175/80-A/U	5.0–6.0 (125–150)	4.0 (100)	3.45–4.75 (88–121)	6.89–3.15 (175–80)

BPTM 5–25 kV*

Catalog number	5–15 kV		25 kV		5–15 kV		25 kV		BPTM tubing diameter as supplied and fully recovered
	5–15 kV	25 kV	5–15 kV	25 kV	5–15 kV	25 kV	5–15 kV	25 kV	
BPTM-15/6-A/U	N/A	N/A	N/A	N/A	0.26–0.52 (7–13)	0.26–0.30 (7–8)	0.59–0.24 (15–6)		
BPTM-30/12-A/U	.25–0.5 (12)		0.5 (12)	0.5 (12)	0.53–0.90 (14–23)	0.53–0.65 (14–16)	1.18–0.47 (30–12)		
BPTM-50/20-A/U	1.0 (25)	1.0 (25)	1.0 (25)	N/A	0.90–1.35 (23–33)	0.90–1.10 (23–28)	1.97–0.79 (50–20)		
BPTM-75/30-A/U	2.0 (50)	2.0 (50)	1.5 (38)	1.0 (25)	1.30–2.00 (33–51)	1.30–1.65 (33–42)	2.95–1.18 (75–30)		
BPTM-100/40-A/U	3.0 (75)	3.0 (75)	2.0 (50)	1.5 (38)	1.75–2.75 (44–70)	1.75–2.30 (44–58)	3.94–1.57 (100–40)		
BPTM-120/50-A/U	4.0–5.0 (100–127)	4.0 (100)	3.0 (75)	2.0 (50)	2.15–4.00 (55–102)	2.15–3.20 (55–81)	4.72–1.97 (120–50)		
BPTM-175/70-A/U	6.0–7.0 (150–178)	5.0–6.0 (127–150)	4.0 (100)	3.0 (75)	3.20–5.50 (81–140)	3.20–4.40 (81–112)	6.88–2.75 (175–70)		
BPTM-205/110-A/U	8.0 (200)	8.0 (200)	5.0 (127)	4.0 (100)	4.75–7.00 (120–178)	4.75–6.80 (120–174)	8.07–4.33 (205–110)		
BPTM 235/130-A/U	12 (300)	10 (250)	6 (150)	6 (150)	5.70–8.45 (145–215)	5.70–8.07 (145–205)	9.25–5.12 (235–130)		

* See Ordering information #2 below. ** See Ordering information #3 below.

Ordering information

1. Select the appropriate catalog number. Confirm selection with bus dimensions.
- *2. These products may be suitable for applications with higher voltages than those listed. Please contact your Tyco Electronics representative for more information.
- **3. Rectangular bus thickness range is 1/4 to 5/8 inch.
4. Bolted connections require two layers of tubing or a fiber bolt pad (BP-46 from page 157).

5. To environmentally seal the bus at each end of the BBIT tubing, order S-1251-50-300-1 or S-1251-25-300-4 sealant strip separately from page 51.
6. Standard package:
BBIT-25/10-A/U: 65 feet/box.
BBIT-40/16-A/U: 60 feet/box.
BBIT-65/25 A/U: 50 feet/box.
BBIT-100/40: 50 feet/box.
BBIT-150/60: 50 feet/box.
BBIT-175/80: 50 feet/box.
BPTM 235/130: 66 feet/box.

All other BPTM sizes: 50 feet/box. BBIT and BPTM are also available in bulk spooled quantities. Contact your Tyco Electronics representative for more information.

7. Related test reports:
BBIT– [UVR-8136](#) , [UVR-8137](#) ,
BPTM– [UVR-8019](#)
8. Minimum continuous length is 15 feet (4.5 meters).

Related installation instructions: [BBIT/BPTM](#)