



CBTM – MEDIUM WALL CROSSLINKED POLYOLEFIN BUS BAR TUBING

Medium wall anti-track heat shrinkable tubing specially designed for insulating medium voltage bus bars

FEATURES AND BENEFITS

- Halogen free
- Reduces bus bar clearance requirements
- Protects against accidental flashover
- Anti-track
- CBTM medium wall tubing rated to 25 kV
- Shrink ratio: 3:1
- Continuous operating temperature: -40°C to 125°C
- Shrink temperature: 120°C min.

STANDARDS

- ANSI C37.20.2
- ANSI C37.20.3
- UL file # E205844

TYPICAL APPLICATIONS

- Insulation of medium voltage bus bars in switchgear equipment, transformers and generators



3:1

SHRINK RATIO

-40°C to 125°C

(-40°F to 257°F)

CONTINUOUS OPERATING
TEMPERATURE

MARKETS:

Industrial, Industrial OEM, Utility,
Power Distribution

STANDARDS:



Medium wall crosslinked polyolefin bus bar tubing

DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				DELIVERY UNITS	
	Internal Diameter (min) D		Internal Diameter (max) d		Total Wall Thickness (nom) W		Spool	
	MM	IN	MM	IN	MM	IN	M	FT
0750	19.0	0.748	5.5	0.217	2.70	0.106	15.24	50
1300	33.0	1.299	10.1	0.398	3.00	0.118	15.24	50
2050	52.0	2.047	19.0	0.748	2.80	0.110	15.24	50
2750	69.8	2.748	25.4	1.000	2.90	0.114	15.24	50
3500	88.9	3.500	29.9	1.177	3.10	0.122	15.24	50
4700	119.3	4.697	39.9	1.571	3.20	0.126	15.24	50
6700	170.1	6.697	58.4	2.299	3.20	0.126	15.24	50
European Dimensions								
19/6	19.0	0.748	6.0	0.236	2.00	0.079	50.00	164
33/10	33.0	1.299	10.0	0.394	2.50	0.098	50.00	164
52/19	52.0	2.047	19.0	0.748	2.50	0.098	25.00	82
76/30	76.0	2.992	30.0	1.181	2.50	0.098	15.00	49
100/40	100.0	3.937	40.0	1.575	2.50	0.098	15.00	49

APPLICATION RANGES

ORDER NUMBER	RECTANGULAR BUS BARS				ROUND BUS BARS	
	Minimum		Maximum		Minimum - Maximum	
	MM	IN	MM	IN	MM	IN
0750 and 19/6	6.4 x 6.4	0.252 x 0.252	6.4 x 15.9	0.252 x 0.626	6.8 - 15.2	0.268 - 0.598
1300 and 33/10	12.7 x 6.4	0.500 x 0.252	28.5 x 15.9	1.122 x 0.626	12.4 - 27.9	0.488 - 1.098
2050 and 52/19	31.5 x 6.4	1.240 x 0.252	50.8 x 15.9	2.000 x 0.626	22.3 - 43.1	0.878 - 1.697
2750	44.4 x 6.4	1.748 x 0.252	76.2 x 15.9	3.000 x 0.626	29.7 - 58.4	1.169 - 2.299
76/30	63.9 x 6.4	2.520 x 0.252	90.1 x 15.9	3.547 x 0.626	45.0 - 68.0	1.772 - 2.677
3500	57.1 x 6.4	2.248 x 0.252	101.6 x 15.9	4.000 x 0.626	35.8 - 73.6	1.409 - 2.898
100/40	103.6 x 6.4	4.079 x 0.252	114.1 x 15.9	4.492 x 0.626	70.0 - 83.0	2.756 - 3.268
4700	73.0 x 6.4	2.874 x 0.252	142.8 x 15.9	5.622 x 0.626	47.7 - 101.6	1.878 - 4.000
6700	114.3 x 6.4	4.500 x 0.252	203.2 x 15.9	8.000 x 0.626	69.5 - 144.7	2.736 - 5.697

Application ranges noted above selected to obtain minimum insulation thickness required to meet ANSI C37.20.2 withstand requirements at bus bar spacing noted below. These spacings were determined from a limited number of test configurations. Due to the wide variety of bus bar configurations, these spacings should not be employed without actual testing by the user.

CLEARANCES WITH INSULATION

SYSTEM VOLTAGE	BIL KV	CBTM MEDIUM WALL TUBING			
		P to P		P to G	
		MM	IN	MM	IN
5 kV	95.0	86.0	3.386	106.0	4.173
25 kV	125.0	114.0	4.488	152.0	5.984
36 kV	150.0	165.0	6.496	203.0	7.992

P to P: Phase to Phase orientation

P to G: Phase to Ground orientation

Spacing based on metal to metal dimension prior to insulation. Spacing based on insulation wall thickness per application range of above table.



ORDERING

Select a dimension which will shrink snugly over the application to be covered. If recovery is restricted the resultant wall thickness will be less than specified.

- Select options:
 - Color: Red-brown (RD-BN)
- Please specify the product name, order number and options you require
- *Example:* CBTM, 2050, red-brown, or CBTM, 76/30, red-brown

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

FOR FURTHER INFORMATION, PLEASE CONTACT:

Americas: 800 422 6872 Canada: 800 845 6808 Asia Pacific: +86 512 82280099 Europe: +49 2226 9047 355

We advise that customers should separately evaluate the suitability of our products for their particular application. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. Please ask for the latest version of this catalog. Subject to modification without prior notice.