

# 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



-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	EXPA	NDED	RECOVERED			DELIVERY UNITS		
	Internal Diameter (min) D		Internal Diameter (max) d		Total Wall Thickness (nom) W		Spool	
	MM	IN	MM	IN	MM	IN	М	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		RECTANGULA	ROUND BUS BARS				
	Minimum		Maxi	mum	Minimum - Maximum		
	MM	IN	MM	IN	MM	IN	
0750 and 19/6	6.4 × 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 × 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 withstands 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.



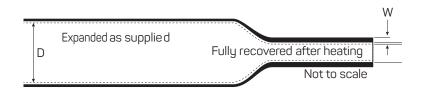
### **CLEARANCES WITH INSULATION**

SYSTEM VOLTAGE	BIL KV	CBTM MEDIUM WALL TUBING					
		P to P		P to G			
		ММ	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:

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