

DATA SHEET



Shenzhen Woer Heat Shrinkable Material Co. Ltd.

WMPG HEAT SHRINKABLE BUSBAR INSULATING TUBE

Voltage class: 10KV - 25KV - 35KV

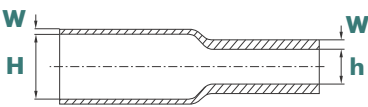
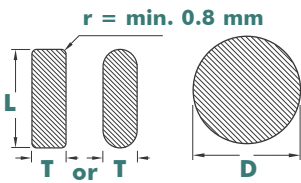
Particularly useful in confined spaces WMPG tubing can be used on both circular and rectangular copper or aluminium busbars. On application of heat the tubing shrinks snugly over the busbar profile ensuring that the required minimum wall thickness is obtained. Woer WMPG tubing can be installed easily during large scale production using an oven or in the field using a gas torch or hot air.

FEATURES

- Manufactured from cross-linked polyolefin
- Temperature range: -40°C-125°C.
- Used to offer insulation protection for busbar in switchgear and substation
- Protects against short circuit and electrical leakage cause by small animals
- Reduces busbar clearance requirements
- RoHS compliant
- Shrink temperature: start at 70°C, and fully recovered at 125°C
- Color: yellow, red, green, blue, black

PRODUCT SELECTION

Woer tubing WMPG should normally be used on the following busbar sizes



For this product, please contact:

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TECHNICAL DATA

Property	Requirement	Testing standard
Tensile strength/MPa	≥8.0	GB/T 1040
Elongation at break/%	≥300	GB/T 1040
Tensile strength after aging/MPa	≥6.4	GB/T 1040, GB/T 7141
Elongation at break after aging/%	100	GB/T 1040, GB/T 7141
Longitudinal shrinkage/%	≥50	
Radical shrinkage/%	Refer to 4.3.2	
Eccentricity/%**	Refer to 4.3.4	UL 224
Water absorption capacity/%	≤0.5	ISO 62-1980
Heat shock (160°C, 4 h)	No cracking, no	JB 7829 appx D
Low temperature resistance(below -40°C)	No cracking	
Flammability test (I.O)	≥28	GB/T 2406
Line frequency withstand voltage/kV/mm*	≥30 kV, 1 min	GB/T 1408.1
Breakdown strength/kV/mm	≥15	GB/T 1408.1
Volume resistivity/Ω.cm	≥4.3 x 10 ¹⁴	GB/T 1410
Hardness (Shore A)	≤90	GB 2411

*Indicator applies to 10kV voltage class heat shrinkable busbar tube. Products should be shrunk evenly on the busbar to make sure the thinnest wall thickness is more than 2 mm and the length is not less than 1200 mm before testing.

**Indicator applies to 35kV voltage class heat shrinkable busbar tube of eccentricity not more than 50%.

PRODUCT SELECTION

Bus bar size(mm)	Single layer bus bar	Two layer bus bar
20x3 - 25x3	Ø25/10	Ø30/12
30x3 - 30x4	Ø30/12	Ø40/16
30x10 - 40x4	Ø40/16	Ø50/20
40x10 - 50x5 - 50x6	Ø50/20	Ø65/25 (Ø75/30)
50x8 - 50x10 - 60x6 - 60x8	Ø65/25 (Ø75/30)	Ø75/30 (Ø85/35)
60x10 - 80x6 - 80x8 - 80x10	Ø75/30 (Ø85/35)	Ø100/40 (Ø120/50)
100x8 - 100x10 - 100x12	Ø100/40 (Ø120/50)	Ø120/50
100x15 - 120x10 - 120x12 - 200x15	Ø120/50	Ø150/60
150x12 - 150x15	Ø150/60	Ø175/75

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All information, recommendations and test data herein are offered only as a guide. We believe them to be accurate but do not guarantee results, freedom from patent infringement, suitability of this product for any resultant application.

10 KV WMPG SERIES

Part No.	Busbar Width (square/circular) (mm)	As Supplied (mm)		After Recovery (mm)		Standard Package (m/roll)
		Inner Diameter	Wall Thickness	Inner Diameter	Wall Thickness	
10kV WMPG 15/6	15/12	15±0.8	1.2±0.30	≤6	2.5±0.20	25
10kV WMPG 20/8	20/15	20±0.8	1.2±0.30	≤8	2.5±0.20	25
10kV WMPG 25/10	25/18	25±0.8	1.2±0.30	≤10	2.5±0.20	25
10kV WMPG 30/12	32/20	30±0.8	1.2±0.30	≤12	2.5±0.20	25
10kV WMPG 40/16	40/30	40±1.0	1.2±0.30	≤16	2.8±0.30	25
10kV WMPG 50/20	50/35	≥50	1.2±0.30	≤20	2.8±0.30	25
10kV WMPG 60/24	60/45	≥60	1.2±0.30	≤24	2.8±0.30	25
10kV WMPG 65/26*	65/45	≥65	1.2±0.30	≤26	2.8±0.30	25
10kV WMPG 70/28	70/50	≥70	1.2±0.30	≤28	2.8±0.30	25
10kV WMPG 75/30*	75/50	≥75	1.2±0.30	≤30	2.8±0.30	25
10kV WMPG 80/32	80/55	≥80	1.2±0.30	≤32	2.8±0.30	25
10kV WMPG 85/34*	80/65	≥85	1.2±0.30	≤34	2.8±0.30	25
10kV WMPG 100/40	100/75	≥100	1.2±0.30	≤40	2.8±0.30	25
10kV WMPG 120/48	120/85	≥120	1.2±0.30	≤48	2.8±0.30	25
10kV WMPG 150/60	150/105	≥150	1.2±0.30	≤60	2.8±0.30	25
10kV WMPG 180/72	180/120	≥180	1.2±0.30	≤72	2.8±0.30	25
10kV WMPG 210/84*	210/140	≥210	1.2±0.30	≤84	2.8±0.30	20
10kV WMPG 230/92*	230/150	≥230	1.2±0.30	≤92	2.8±0.30	20
10kV WMPG 250/100*	250/180	≥250	1.2±0.30	≤100	2.8±0.30	20
10kV WMPG 300/120*	300/210	≥300	1.2±0.30	≤120	2.8±0.30	15

25 KV WMPG SERIES

Part No.	Busbar Width (square/circular) (mm)	As Supplied (mm)		After Recovery (mm)		Standard Package (m/roll)
		Inner Diameter	Wall Thickness	Inner Diameter	Wall Thickness	
25kV WMPG 15/8	15/12	15.0±0.8	1.30±0.30	≤8	2.50±0.20	25
25kV WMPG 20/10	20/15	20.0±0.8	1.30±0.30	≤10	2.50±0.20	25
25kV WMPG 25/13	25/18	25.0±0.8	1.30±0.30	≤13	2.50±0.20	25
25kV WMPG 30/15	32/20	30.0±0.8	1.30±0.30	≤15	2.50±0.20	25
25kV WMPG 40/20	40/30	40.0±1.0	1.40±0.40	≤20	2.80±0.30	25
25kV WMPG 50/25	50/35	50.0±2.0	1.40±0.40	≤25	2.80±0.30	25
25kV WMPG 60/30	120/85	60.0±3.0	1.40±0.40	≤30	2.80±0.30	25
25kV WMPG 120/60	60/45	65.0±3.0	1.40±0.40	≤33	2.80±0.30	25
25kV WMPG 65/33*	150/105	70.0±3.0	1.40±0.40	≤35	2.80±0.30	25
25kV WMPG 150/75	65/45	75.0±3.0	1.40±0.40	≤38	2.80±0.30	25
25kV WMPG 70/35	180/120	80.0±3.0	1.40±0.40	≤40	2.80±0.30	25
25kV WMPG 180/90	70/50	85.0±3.0	1.40±0.40	≤43	2.80±0.30	25
25kV WMPG 75/38	210/40	100.0±4.0	1.40±0.40	≤50	2.80±0.30	25
25kV WMPG 210/105*	75/50	120.0±4.0	1.40±0.40	≤60	2.80±0.30	25
25kV WMPG 80/40	230/150	150.0±4.0	1.40±0.40	≤75	2.80±0.30	25
25kV WMPG 230/115*	80/55	180.0±5.0	1.40±0.40	≤90	2.80±0.30	25
25kV WMPG 85/43*	80/65	210.0±5.0	1.40±0.40	≤105	2.80±0.30	20
25kV WMPG 100/50	100/75	230.0±5.0	1.40±0.40	≤115	2.80±0.30	20

Note: Part No. with * are not in storage. They need to be made by order.

35 KV WMPG SERIES

Part No.	Busbar Width (square/circular) (mm)	As Supplied (mm)		After Recovery (mm)		Standard Package (m/roll)
		Inner Diameter	Wall Thickness	Inner Diameter	Wall Thickness	
35kV WMPG 30/12	30	30±1.0	1.70±0.50	12	4.0±0.3	15
35kV WMPG 40/16	40	40±1.0	1.70±0.50	16	4.0±0.3	15
35kV WMPG 50/20	50	50±2.0	1.70±0.50	20	4.0±0.3	15
35kV WMPG 60/24	60	60±3.0	1.70±0.50	24	4.0±0.3	15
35kV WMPG 70/28	70	70±3.0	1.70±0.50	28	4.0±0.3	15
35kV WMPG 80/32	80/100	80±4.0	1.70±0.50	32	4.0±0.3	15
35kV WMPG 100/40	100/120	100±4.0	1.70±0.50	40	4.0±0.3	15
35kV WMPG 120/48	150	120±4.0	1.70±0.50	48	4.0±0.3	15
35kV WMPG 150/60	180	150±4.0	1.70±0.50	60	4.0±0.3	15
35kV WMPG 180/72	MAX.	180±5.0	1.70±0.50	72	4.0±0.3	15
35kV WMPG 210/84*	MAX.	210±5.0	1.70±0.50	84	4.0±0.3	15
35kV WMPG 230/92*	MAX.	230±5.0	1.70±0.50	92	4.0±0.3	15
35kV WMPG 250/100*	MAX.	250±5.0	1.70±0.50	100	4.0±0.3	15

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