



J. M. Engineering Co.

A collage of images related to engineering and manufacturing, including a cable, an airplane, a building, a wind turbine, and various electronic components. A yellow square is positioned behind the word 'PRODUCTS'.

# PRODUCTS

# Heat Shrink Sleeves

## Single Wall Heat Shrink Sleeves



### Visit Us

Manhar Bldg., 3rd Floor, 177,  
Lohar Chawl, Mumbai –  
400002, Maharashtra (INDIA)



### Email Us

[info@jmenggco.in](mailto:info@jmenggco.in)



### Call Us

T: +91-22-2206 1671  
F: +91-22-2209 0291



# WMPG

## Heat Shrink Busbar Tube



### Features

- Manufactured from cross-linked polyolefin
- 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 , and fully recovered at 125
- Color: yellow, red, green, blue, black



### Dimensions

#### 1kV WMPG Series

Product No.	Busbar Width (square)/mm	As Supplied/mm		After Recovered/mm		Standard Package (m/roll)
		ID (Min)	Wall Thickness	ID (Max)	Wall Thickness	
1kV WMPG 30	30	31.5±1.0	0.50±0.15	15	0.95±0.15	50
1kV WMPG 35	35	36.5±1.5	0.50±0.15	18	1.00±0.15	50
1kV WMPG 40	40	41.5±1.5	0.55±0.15	20	1.00±0.15	25
1kV WMPG 45	45	41.5±1.5	0.55±0.15	23	1.00±0.15	25
1kV WMPG 50	50	51.0±2.0	0.55±0.15	25	1.00±0.15	25
1kV WMPG 60	60	60.0±3.0	0.60±0.20	30	1.30±0.20	25
1kV WMPG 65*	65	65.0±3.0	0.60±0.20	33	1.30±0.20	25
1kV WMPG 70	70	70.0±3.0	0.65±0.20	35	1.30±0.20	25
1kV WMPG 75*	75	75.0±3.0	0.65±0.20	38	1.30±0.20	25
1kV WMPG 80	80/100	80.0±3.0	0.65±0.20	40	1.46±0.20	25
1kV WMPG 85*	80/100	85.0±3.0	0.65±0.20	43	1.46±0.20	25
1kV WMPG 90	100	90.0±4.0	0.65±0.20	45	1.46±0.20	25
1kV WMPG 100	100/120	100.0±4.0	0.65±0.20	50	1.46±0.20	25
1kV WMPG 120	150	120.0±4.0	0.65±0.20	60	1.46±0.20	25
1kV WMPG 150	180	150.0±4.0	0.65±0.20	75	1.46±0.20	25
1kV WMPG 180	MAX	180.0±4.0	0.65±0.20	90	1.46±0.20	25
1kV WMPG 210*	MAX	210.0±4.0	0.65±0.20	105	1.46±0.20	25
1kV WMPG 230*	MAX	230.0±4.0	0.65±0.20	115	1.46±0.20	25
1kV WMPG 250*	MAX	250.0±5.0	0.65±0.20	125	1.46±0.20	25
1kV WMPG 300*	MAX	300.0±5.0	0.65±0.20	150	1.46±0.20	25

#### 10kV WMPG Series

Product No.	Busbar Width (square/circular) /mm	As Supplied/mm		After Recovered/mm		Standard Package (m/roll)
		ID (Min)	Wall Thickness	ID (Max)	Wall Thickness	
10kV WMPG 15/8	15/12	15.0± 0.8	1.20± 0.30	8	2.10± 0.30	25
10kV WMPG 20/10	20/15	20.0± 0.8	1.20± 0.30	10	2.10± 0.30	25
10kV WMPG 25/12	25/18	25.0± 0.8	1.20± 0.30	12.5	2.10± 0.30	25
10kV WMPG 30/15	32/20	30.0± 0.8	1.20± 0.30	15	2.10± 0.30	25
10kV WMPG 40/20	40/30	40.0± 1.0	1.20± 0.30	20	2.30± 0.30	25
10kV WMPG 50/25	50/35	50.0± 3.0	1.20± 0.30	25	2.30± 0.30	25
10kV WMPG 60/30	60/45	60.0± 3.0	1.20± 0.30	30	2.30± 0.30	25
10kV WMPG 65/33*	65/45	65.0± 3.0	1.20± 0.30	33	2.30± 0.30	25
10kV WMPG 70/35	70/50	70.0± 3.0	1.20± 0.30	35	2.30± 0.30	25
10kV WMPG 75/38*	75/50	75.0± 3.0	1.20± 0.30	38	2.30± 0.30	25
10kV WMPG 80/40	80/55	80.0± 3.0	1.20± 0.30	40	2.30± 0.30	25
10kV WMPG 85/43*	80/65	85.0± 3.0	1.20± 0.30	43	2.40± 0.30	25
10kV WMPG 100/50	100/75	100.0± 4.0	1.20± 0.30	50	2.40± 0.30	25
10kV WMPG 120/60	120/85	120.0± 4.0	1.20± 0.30	60	2.40± 0.30	25
10kV WMPG 150/75	150/105	150.0± 4.0	1.20± 0.30	75	2.40± 0.30	25
10kV WMPG 180/90	180/120	180.0± 5.0	1.20± 0.30	90	2.40± 0.30	25
10kV WMPG 210/105*	210/140	210.0± 5.0	1.20± 0.40	105	2.40± 0.30	20
10kV WMPG 230/115*	230/150	230.0± 5.0	1.20± 0.40	115	2.40± 0.30	20
10kV WMPG 250/125*	250/180	250.0± 5.0	1.20± 0.40	125	2.40± 0.30	20
10kV WMPG 300/150*	300/210	300.0± 5.0	1.20± 0.40	150	2.40± 0.30	15

**20kV WMPG Series**

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

**35kV WMPG Series**

Product No.	Busbar Width (square)/mm	As Supplied/mm		After Recovered/mm		Standard Package (m/roll)
		ID (Min)	Wall Thickness	ID (Max)	Wall Thickness	
35kV WMPG 30/15	30	30.0± 1.0	1.90± 0.50	15	4.00± 0.30	15
35kV WMPG 35/18	30/40	35.0± 1.0	1.90± 0.50	18	4.00± 0.30	15
35kV WMPG 40/20	40	40.0± 1.0	1.90± 0.50	20	4.00± 0.30	15
35kV WMPG 50/25	50	50.0± 2.0	1.90± 0.50	25	4.00± 0.30	15
35kV WMPG 60/30	60	60.0± 3.0	1.90± 0.50	30	4.00± 0.30	15
35kV WMPG 65/33*	60/70	65.0± 3.0	1.90± 0.50	33	4.00± 0.30	15
35kV WMPG 70/35	70	70.0± 3.0	1.90± 0.50	35	4.00± 0.30	15
35kV WMPG 75/38*	70/80	75.0± 3.0	1.90± 0.50	38	4.00± 0.30	15
35kV WMPG 80/40	80/100	80.0± 4.0	1.90± 0.50	40	4.00± 0.30	15
35kV WMPG 100/50	100/120	100.0± 4.0	1.90± 0.50	50	4.00± 0.30	15
35kV WMPG 120/60	150	120.0± 4.0	1.90± 0.50	60	4.00± 0.30	15
35kV WMPG 150/75	180	150.0± 4.0	1.90± 0.50	75	4.00± 0.30	15
35kV WMPG 180/90*	MAX.	180.0± 5.0	1.90± 0.50	90	4.00± 0.30	15
35kV WMPG 210/105*	MAX.	210.0± 5.0	1.90± 0.50	105	4.00± 0.30	15
35kV WMPG 230/115*	MAX.	230.0± 5.0	1.90± 0.50	115	4.00± 0.30	15
35kV WMPG 250/125*	MAX.	250.0± 5.0	1.90± 0.50	125	4.00± 0.30	15
35kV WMPG 300/150*	MAX.	300.0± 5.0	1.90± 0.50	150	4.00± 0.30	15

Note: Size with \* are not standard stock items.

**Technical Data**

Property	Test Method	Standard Value
Tensile Strength	GB/T 1040	8MPa
Elongation at Break	GB/T 1040	300%
Tensile Strength after Aging	GB/T 1040, GB/T 7141	6.4MPa (130 ,168 hrs)
Elongation at Break after Aging	GB/T 1040, GB/T 7141	100% (130 ,168 hrs)
Hardness (Shore A)	ISO 868	90
Dielectric Strength	IEC 60243	25kV/mm
Volume Resistivity	IEC 60093	1×10 <sup>14</sup> -cm
Dielectric Constant	IEC 60250	3.0
Longitudinal Shrinkage	ASTM-D-2671	10%
Eccentricity	ASTM-D-2671	30%(10kV); 50%(35kV)
Water Absorption	ISO 62	0.5%
Flammability (Oxygen Index)	ISO 4589	28

