

Bus-bar Heat Shrinkable Protection Tube



Model Number: SB-WMPG SERIES

Working temperature: -55°C ~ 125°C

Shrink ratio: 2:1 (1kV&35kV) & 2.5:1 (10kV)

Structure

Bus-bar heat shrinkable protection tube adopts cross-linked and environmental friendly polyolefin material. It restricts the hazardous substance in PBB, PBBD, PBBE and other heavy metal, and supplies high dielectric strength and voltage withstand performance. It prevents bus-bar from chemical corrosion effected by strong acid, alkali, salt etc. It also has environmental friendly, flexible, flame retardant, soft performance.

Usage

It is mainly used in dielectric and mechanical protection, joints and terminals.

Characteristics

1. Shrink temperature: 84°C ~ 125°C
2. Environmental, flexible, flame retardant, soft

Standards

- 1) GB/T 1059-2007
- 2) RoHS approval

Specification

Property	Unit	Standard	Test Method
Tensile Strength	MPA	≥10.4(before aging)	GB/T 1040 130°C *168hrs
		≥7.3(after aging)	
Elongation	%	≥300(before aging)	GB/T 1040; GB/T7141 130°C*168hrs
		≥100(after aging)	
Heat Shock	-	no sticking; no cracking	JB 7829appendixD.(160°C*4hrs)
Cold Blend	-	no cracking	-30°C*4hrs
Breakdown Strength	KV/mm	≥25	GB/T 1408.1
Volume Resistivity	Ω. cm	≥1×10 ¹⁴	GB/T 1410
Longitudinal Change	%	≥50	
Off-center	%	≤30	UL 224
Flame Retardant	-	≥30	GD/T 2406
Water Absorption	%	≤0.5	ISO 62-1980
Dielectric Withstand	KV/mm	≥30kV.1min	GB/T 1408.1

Shore Hardness(Shore A)		≤90	GB 2401
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*This data is suitable for 10kv bus bar protection tube. When managing this test, the user must make the tube recovery evenly and make sure the max thickness>2mm, and bus-bar tubes are longer than 1200mm.**35kV bus bar off center proportion≤50%.

Dimension

1) 1KV Bus Bar Protection Heat Shrinkable Tube

Specification	Bus Bar Width(mm)	As Supplied(mm)		After Recovery(mm)		Standard Package (m/roll)
		ID	Wall Thickness	ID	Wall Thickness	
1KV WMPG 30	30	31.5±1.0	0.50±0.15	≤15.0	1.00±0.15	50
1KV WMPG 35	35	36.5±1.0	0.50±0.15	≤17.5	1.00±0.15	50
1KV WMPG 40	40	41.5±1.0	0.55±0.15	≤20.0	1.00±0.15	50
1KV WMPG 45	45	46.5±1.0	0.55±0.15	≤22.5	1.00±0.15	25
1KV WMPG 50	50	≥50	0.55±0.15	≤25.0	1.10±0.15	25
1KV WMPG 60	60	≥60	0.60±0.15	≤30.0	1.20±0.15	25
1KV WMPG 70	70	≥70	0.65±0.15	≤35.0	1.30±0.20	25
1KV WMPG 75*	75	≥75	0.65±0.15	≤38.0	1.30±0.20	25
1KV WMPG 80	80/100	≥80	0.65±0.15	≤40.0	1.30±0.20	25
1KV WMPG 85*	80/100	≥85	0.65±0.15	≤43.0	1.30±0.20	25
1KV WMPG 90	100	≥90	0.65±0.15	≤45.0	1.30±0.20	25
1KV WMPG 100	100/120	≥100	0.65±0.20	≤50.0	1.30±0.20	25
1KV WMPG 120	150	≥120	0.65±0.20	≤60.0	1.30±0.20	25
1KV WMPG 150	180	≥150	0.65±0.20	≤70.0	1.30±0.20	25
1KV WMPG 180	MAX	≥180	0.65±0.30	≤90.0	1.30±0.30	25
1KV WMPG 210*	MAX	≥210	0.65±0.30	≤105.0	1.30±0.30	25
1KV WMPG 230*	MAX	≥230	0.65±0.30	≤115.0	1.30±0.30	25
1KV WMPG 250*	MAX	≥250	0.65±0.30	≤125.0	1.30±0.30	25

2) 10KV Bus Bar Protection Heat Shrinkable Tube

Specification	Bus Bar Width(mm)	As Supplied(mm)		After Recovery(mm)		Standard Package (m/roll)
		ID	Wall Thickness	ID	Wall Thickness	
10KV WMPG 15/6	15/12	≥15	1.0±0.30	≤6.0	2.5±0.20	25
10KV WMPG 20/8	20/15	≥20	1.0±0.30	≤8.0	2.5±0.20	25
10KV WMPG 25/10	25/18	≥25	1.0±0.30	≤10.0	2.5±0.20	25
10KV WMPG 30/12	30/20	≥30	1.0±0.30	≤12.0	2.5±0.20	25
10KV WMPG 40/16	40/30	≥40	1.2±0.30	≤16.0	2.8±0.30	25
10KV WMPG 50/20	50/35	≥50	1.2±0.30	≤20.0	2.8±0.30	25
10KV WMPG 60/24	60/45	≥60	1.2±0.30	≤24.0	2.8±0.30	25
10KV WMPG 65/26*	65/45	≥65	1.2±0.30	≤26.0	2.8±0.30	25

10KV WMPG 70/28	70/50	≥70	1.2±0.30	≤28.0	2.8±0.30	25
10KV WMPG 75/30*	75/50	≥75	1.2±0.30	≤30.0	2.8±0.30	25
10KV WMPG 80/32	80/55	≥80	1.2±0.30	≤32.0	2.8±0.30	25
10KV WMPG 85/34*	80/65	≥85	1.2±0.30	≤34.0	2.8±0.30	25
10KV WMPG 100/40	100/75	≥100	1.2±0.30	≤40.0	2.8±0.30	25
10KV WMPG 120/48	120/85	≥120	1.2±0.30	≤48.0	2.8±0.30	25
10KV WMPG 150/60	150/105	≥150	1.2±0.30	≤60.0	2.8±0.30	25
10KV WMPG 180/72	180/120	≥180	1.2±0.30	≤72.0	2.8±0.30	25
10KV WMPG 210/84*	210/140	≥210	1.2±0.40	≤84.0	2.8±0.30	25
10KV WMPG 230/92*	230/150	≥230	1.2±0.40	≤92.0	2.8±0.30	25
10KV WMPG 250/100*	250/160	≥250	1.2±0.40	≤100.0	2.8±0.30	25

3) 35 KV Bus Bar Protection Heat Shrinkable Tube

Specification	Bus Bar Width (mm)	As Supplied(mm)		After Recovery(mm)		Standard Package (m/roll)
		ID	Wall Thickness	ID	Wall Thickness	
35KV WMPG 30/15	30	≥30	2.0±0.60	≤15.0	4.0±0.30	15
35KV WMPG 35/18	30/40	≥35	2.0±0.60	≤17.5	4.0±0.30	15
35KV WMPG 40/20	40	≥40	2.0±0.60	≤20.0	4.0±0.30	15
35KV WMPG 50/25	50	≥50	2.0±0.60	≤25.0	4.0±0.30	15
35KV WMPG 60/30	60	≥60	2.0±0.60	≤30.0	4.0±0.30	15
35KV WMPG 65/33*	60/70	≥65	2.0±0.60	≤32.5	4.0±0.30	15
35KV WMPG 70/35	70	≥70	2.0±0.60	≤35.0	4.0±0.30	15
35KV WMPG 75/38*	70/80	≥75	2.0±0.60	≤37.5	4.0±0.30	15
35KV WMPG 80/40	80/100	≥80	2.0±0.60	≤40.0	4.0±0.30	15
35KV WMPG 100/50	100/120	≥100	2.0±0.60	≤50.0	4.0±0.30	15
35KV WMPG 120/60	150	≥120	2.0±0.60	≤60.0	4.0±0.30	15
35KV WMPG 150/75	180	≥150	2.0±0.70	≤75.0	4.0±0.30	15
35KV WMPG 180/90*	MAX	≥180	2.0±0.70	≤90.0	4.0±0.30	15
35KV WMPG 210/105*	MAX	≥210	2.0±0.70	≤105.0	4.0±0.30	15
35KV WMPG 230/115*	MAX	≥230	2.0±0.70	≤115.0	4.0±0.30	15
35KV WMPG 250/115*	MAX	≥250	2.0±0.70	≤125.0	4.0±0.30	15

Remarks: There is no storage if the item is marked *. It should be especially customized.

Color: Standard color is red, yellow and green.