



J. M. Engineering Co.

A Complete Process Control automation

Power Cable Accessories

Heat Shrink Sleeve



WMPG (Heat Shrink Busbar Sleeve)



Description

Made of cross linked polyolefin
High resistance to tracking, aging and erosion
Used to offer insulation protection for busbar in switchgear and substation
Can be supplied in continuous length
Continuous operation temperature: -45°C to 105°C
Shrink temperature: start at 110°C, and fully recovered at 130°C
Color: yellow, red, green, blue, black

Technical Data

Property	Test Method	Standard Value
Operation Temperature	IEC 216	-45°C to 105°C
Tensile Strength	ASTM-D-2671	≥10MPa
Elongation at Break	ASTM-D-2671	≥400%
Tensile Strength after Aging	ASTM-D-2671	≥8MPa (130°C, 168 hrs)
Elongation at Break after Aging	ASTM-D-2671	≥320% (130°C, 168 hrs)
Dielectric Strength	IEC 60243	≥25kV/mm
Volume Resistivity	IEC 60093	≥1×10 ¹⁴ Ω·cm
Dielectric Constant	IEC 250	≤3.0
Longitudinal Shrinkage	ASTM-D-2671	≤10%
Eccentricity	ASTM-D-2671	≤30%
Water Absorption	ISO 62	≤0.5%
Flammability (Oxygen Index)	IEC 4589	≥28
Copper Corrosion	ASTM-D-2671	No corrosion (130°C, 168 hrs)
Cold Bend	ASTM-D-2671	No cracking (-40°C, 4 hrs)

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Selection Table (10 kV Heat Shrink Busbar Sleeve)

Product No.	As Supplied(mm)		After Recovered(mm)		Standard Length	Suitable for Rectangular Busbar	Suitable for Circular Busbar
	ID (Min)	Wall Thickness	ID (Max)	Wall Thickness (±10%)			
Φ20	20	1.2	8	2.5	1000	20	15
Φ25	25	1.2	11	2.5	1000	25	15
Φ30	30	1.2	13	2.5	1000	30	20
Φ40	40	1.2	16	2.5	1000	40	25
Φ50	50	1.3	18	2.7	1000	50	30
Φ65	65	1.3	28	2.7	1000	65	40
Φ75	75	1.3	31	2.7	1000	75	50
Φ85	85	1.3	36	2.7	1000	85	55
Φ100	100	1.3	42	2.7	1000	100	75
Φ120	120	1.3	48	2.7	1000	120	85
Φ150	150	1.3	62	2.7	1000	150	105
Φ180	180	1.3	73	2.7	1000	180	120
Φ210	210	1.3	84	2.7	1000	210	130
Φ230	230	1.2	85	2.7	1000	230	135
Φ250	250	1.5	102	3.7	1000	250	140
Φ300	300	1.6	110	3.9	1000	300	160
Φ350	350	1.2	142	3.0	1000	350	200
Φ400	400	1.2	160	3.0	1000	400	260
Φ450	450	1.4	193	3.2	1000	450	300
Φ500	500	1.2	193	3.2	1000	500	330

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Selection Table (20 kV Heat Shrink Busbar Sleeve)

Product No.	As Supplied(mm)		After Recovered(mm)		Standard Length	Suitable for Rectangular Busbar	Suitable for Circular Busbar
	ID (Min)	Wall Thickness	ID (Max)	Wall Thickness (±10%)			
Φ30	30	1.6	12	3.7	1000	30	20
Φ40	40	1.6	16	3.7	1000	40	25
Φ50	50	1.6	20	3.7	1000	50	30
Φ60	60	1.6	25	3.7	1000	60	40
Φ70	70	1.6	30	3.7	1000	70	45
Φ85	85	1.5	32	3.7	1000	85	55
Φ100	100	1.5	40	3.7	1000	100	65
Φ120	120	1.5	50	3.7	1000	120	80
Φ140	140	1.5	56	3.7	1000	140	100
Φ160	120	1.5	64	3.7	1000	160	110
Φ180	180	1.5	72	3.7	1000	180	130
Φ200	200	1.5	82	3.7	1000	200	140
Φ220	220	1.5	88	3.7	1000	220	150

Selection Table (35 kV Heat Shrink Busbar Sleeve)

Product No.	As Supplied(mm)		After Recovered(mm)		Standard Length	Suitable for Rectangular Busbar	Suitable for Circular Busbar
	ID (Min)	Wall Thickness	ID (Max)	Wall Thickness (±10%)			
Φ25	25	2.0	10	4.7	1000	25	15
Φ30	30	2.0	15	4.7	1000	30	20
Φ40	40	2.0	17	4.7	1000	40	25
Φ50	50	2.0	20	4.9	1000	50	25
Φ65	65	2.0	27	5.2	1000	65	30
Φ75	75	2.0	30	5.2	1000	75	35
Φ85	85	2.0	32	5.2	1000	85	40
Φ100	100	2.0	39	5.2	1000	100	75
Φ120	120	2.0	50	5.2	1000	120	85
Φ150	150	2.0	60	5.2	1000	150	105
Φ180	180	2.2	70	5.5	1000	180	120
Φ210	210	2.1	82	5.3	1000	210	130

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