



Test Report

Products	PV Cable		Size	6mm ²	
Standard	EN50618	Invoice No.	20230725001	Date	20230725
NO.	Item	Standards and Requirements		Test Results	Evaluation
Structure					
1 Phase Core					
1-1	Number of core	84		84	Qualified
1-2	Conductor Structure	84/0.28		84/0.28	Qualified
1-3	Conductor Material	tin plated copper		tin plated copper	Qualified
1-4	Outer Stranding Direction Of Lay	Rightward		Rightward	Qualified
1-5	Lay Ratio	40-60		50	Qualified
1-6	Conductor Dia.	3.0mm		3.02mm	Qualified
2 Insulation					
2-1	Insulation Material	XLPE		XLPE	Qualified
2-2	Color	Black		Black	Qualified
2-3	Average Thickness Of Insulation	≥0.7mm		0.8mm	Qualified
2-4	Min. Thickness Of Insulation	≥0.53mm		0.62mm	Qualified
3 Neutral Conductor					
3-1	8000 AAAC Conductor Structure	/		/	/
3-2	PET	/		/	/
4 Outer Jacket					
4-1	Average Thickness	0.80mm		0.82mm	Qualified
4-2	Min. Thickness	0.68mm		0.75mm	Qualified
4-3	Tensile Strength	≥8.0MPA		12.0MPA	Qualified
4-4	Elongation	≥125mm		165mm	Qualified
5 Finished Product					
5-1	Approximate Overall Diameter Of Cable	6.1-6.3		6.24	Qualified
5-2	Approximate Total Weight Of Cable	83.2KG/KM		82.9KG/KM	Qualified
6 Electrical Performance					

6-1	20°C Max D.C Resistance Of Phase Conductor	$\leq 3.39 \Omega / \text{KM}$	3.29	Qualified
6-2	Max. Resistance Of Neutral Conductor at 20°C	/	/	/
6-3	Alternating Voltage Stress Testing (6.5kv/5min)	No Breakdown	No Breakdown	Qualified
7	Insulation Machinery Performance			
7-1	Elongation At Stress	$\leq 100\%$	40	Qualified
7-2	Permanent Elongation After Cooling	$\leq 25\%$	0%	Qualified

Tested by: Shaoqiong He

Checked by: Guohui Xu

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