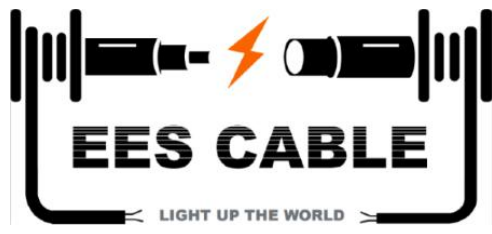


Test Report

Products	PV Cable		Size	4mm ²	
Standard	EN50618	Invoice No.	20230712001	Date	202307120
NO.	Item	Standards and Requirements		Test Results	Evaluation
Structure					
1 Phase Core					
1-1	Number of core	56		56	Qualified
1-2	Conductor Structure	56/0.28±0.003		56/0.279	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		48	Qualified
1-6	Conductor Dia.	2.414mm		2.405mm	Qualified
2 Insulation					
2-1	Insulation Material	XLPE		XLPE	Qualified
2-2	Color	Black		Black	Qualified
2-3	Average Thickness Of Insulation	0.7mm		0.75mm	Qualified
2-4	Min. Thickness Of Insulation	≥0.53mm		0.7mm	Qualified
3 Neutral Conductor					
3-1	8000 AAAC Conductor Structure	/		/	/
3-2	PET	/		/	/
4 Outer Jacket					
4-1	Average Thickness	0.80mm		0.84mm	Qualified
4-2	Min. Thickness	≥0.53mm		0.8mm	Qualified
4-3	Tensile Strength	≥8.0MPA		11.8MPA	Qualified
4-4	Elongation	≥125mm		170mm	Qualified
5 Finished Product					
5-1	Approximate Overall Diameter Of Cable	5.6±0.1mm		5.64mm	Qualified
5-2	Approximate Total Weight Of Cable	60KG/KM		60.5KG/KM	Qualified
6 Electrical Performance					
6-1	20°C Max D.C Resistance Of Phase Conductor	≤ 5.09 Ω /KM		4.99	Qualified

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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	≤100%	40	Qualified
7-2	Permanent Elongation After Cooling	≤25%	0%	Qualified

Tested by: Shaoqiong He

Checked by: Guohui Xu

杭州益睿电线电缆有限公司
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