



Test Report

Products	Concentric Cable		Size	2*6+6AWG	
Standard	UL 854 ASTM B801 ICEA S 95-658 ADTM B801	Invoice No.	20230815002	Date	2023.08.15
NO.	Item	Standards and Requirements	Test Results	Evaluation	
Structure					
1	Phase Core				
1-1	Number of core	2	2	Qualified	
1-2	Conductor Structure	7*1.55mm	7*1.55	Qualified	
1-3	Conductor Material	AL	AL	Qualified	
1-4	Outer Stranding Direction Of Lay	Rightward	Rightward	Qualified	
1-5	Conductor Dia.	4.65mm	4.66 4.66	Qualified	
1-6	20°C Max D.C Resistance Of Phase Conductor	≤ 2.16 Ω /KM	2.104 2.099	Qualified	
Insulation					
2-1	Insulation Material	XLPE	XLPE	Qualified	
2-2	Color	Red Black	Red Black	Qualified	
2-3	Tensile Strength	≥12.5MPa	24.0 24.6	Qualified	
2-4	Elongation	≥250%	525 575	Qualified	
2-5	Permanent deformation rate	≤5%	0 0	Qualified	
2-6	Average Thickness Of Insulation	≥1.14mm	1.21 1.16	Qualified	
2-7	Min. Thickness Of Insulation	≥1.0mm	1.15 1.13	Qualified	
3	Neutral Conductor				



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3-1	1350AL	65/0.511mm	65/0.511	Qualified
3-2	20°C Max D.C Resistance Of Neutral Conductor	$\leq 2.2 \Omega / \text{KM}$	2.105	Qualified
3-3	Polyester tape	0.05mm	0.05	Qualified
4	Outer sheath			
4-1	Material	XLPE	XLPE	Qualified
4-2	Color	Black	Black	Qualified
4-3	Average Thickness	1.52mm	1.6	Qualified
4-4	Min. Thickness	1.4mm	1.5	Qualified
4-5	Tensile Strength	$\geq 12.5 \text{MPa}$	25.1	Qualified
4-6	Elongation	$\geq 250\%$	575	Qualified
4-7	Permanent deformation rate	$\leq 5\%$	0	Qualified
5	Finished Product			
5-1	Approximate Overall Diameter Of Cable	11.3mm × 18.2mm	12.17 × 18.72	Qualified
5-2	Approximate Total Weight Of Cable	230KG/KM	242KG/KM	Qualified

Tested by: Shaoqiong He

Checked by: Guohui Xu

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