



Test Report

Products	ABC Chola		Size	3*6+6AWG	
Standard	ICEA S-76-474	Invoice No.	20230804002	Date	2023.08.04
NO.	Item	Standards and Requirements		Test Results	Evaluation
	Structure				
1	Phase Core				
1-1	Number of core	3	3	3	Qualified
1-2	Conductor Structure	7*1.55mm	7*1.55	7*1.55	Qualified
1-3	Conductor Material	AL	AL	AL	Qualified
1-4	Outer Stranding Direction Of Lay	Rightward	Rightward	Rightward	Qualified
1-5	Lay Ratio	10-14	13.5	13.5	Qualified
1-6	Conductor Dia.	4.6mm	4.65	4.65	Qualified
2	Insulation				
2-1	Insulation Material	Weatherability-XLPE	Weatherability-XLPE	Weatherability-XLPE	Qualified
2-2	Color	Black	Black	Black	Qualified
2-3	Average Thickness Of Insulation	≥1.14mm	1.20 1.18 1.19	1.20 1.18 1.19	Qualified
2-4	Min. Thickness Of Insulation	≥1.0mm	1.10 1.08 1.08	1.10 1.08 1.08	Qualified
2-5	Surface Of Insulation	Smooth, Clean	Smooth, Clean	Smooth, Clean	Qualified
2-6	Printing Of Insulation	Printing should contains manufacturer, product and size, voltage etc. Printing should be clear, easily recognized, fastness		Passed	Qualified
3	ACSR Neutral line				
3-1	Steel Wire	1*1.68mm	1*1.68	1*1.68	Qualified



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3-2	AL. Wire	6*1.68mm	6*1.68	Qualified
3-3	Outer Stranding Direction Of Lay	Rightward	Rightward	Qualified
3-4	Lay Ratio	10-14	13.3	Qualified
3-5	Conductor Dia.	5.04mm	5.04	Qualified
3-6	Overall breaking force	5.24KN	5.95	Qualified
3-7	Insulation Material	Weatherability-XLPE	Weatherability-XLPE	Qualified
3-8	Average Thickness Of Insulation	≥1.14mm	1.21	Qualified
3-9	Min. Thickness Of Insulation	≥1.0mm	1.12	Qualified
4	Electrical Performance			
4-1	20℃ Max D.C Resistance Of Phase Conductor	≤ 2.17 Ω /KM	2.05	Qualified
4-2	20℃ Max D.C Resistance Of Messenger Conductor	≤ 2.16 Ω /KM	2.04	Qualified
4-3	Alternating Voltage Stress Testing (3.5kv/1min)	No Breakdown	No Breakdown	Qualified
5	Insulation Machinery Performance			
5-1	Elongation At Stress	≤175%	50%	Qualified
5-2	Permanent Elongation After Cooling	≤15%	0%	Qualified

Tested by: Shaoqiong He

Checked by: Guohui Xu

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