



Test Report

Products	ABC		Size	2*1/0AWG+1/0AWG	
Standard	ICEA S-76-474	Invoice No.	20230904005	Date	2023.09.04
NO.	Item	Standards and Requirements		Test Results	Evaluation
1	Phase Core				
1-1	Number of core	2		2	Qualified
1-2	Conductor Structure	7*3.12±0.031mm		7*3.12	Qualified
1-3	Conductor Material	AL		AL	Qualified
1-4	Outer Stranding Direction Of Lay	Rightward		Rightward	Qualified
1-5	Tight pressing outer diameter	9.36mm		9.36	Qualified
2	Insulation				
2-1	Insulation Material	XLPE		XLPE	Qualified
2-2	Color	Black		Black	Qualified
2-3	Average Thickness Of Insulation	≥1.52mm		1.57	Qualified
2-4	Min. Thickness Of Insulation	≥1.4mm		1.49	Qualified
2-5	Outer diameter after insulatiom	12.4mm		12.50	Qualified
2-6	Surface Of Insulation	Smooth, Clean		Smooth, Clean	Qualified
2-7	Printing Of Insulation	Printing should contains manufacturer, product and size, voltage etc. Printing should be clear, easily recognized, fastness		Passed	Qualified
3	Neutral-Messenger AAAC				
3-1	Conductor Structure	7*3.12mm		7*3.12	Qualified
3-2	Outer Stranding Direction Of Lay	Rightward		Rightward	Qualified



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3-3	Outer diameter of conductor	9.36mm	9.36	Qualified
3-4	Overall breaking force	16.97KN	17.68	Qualified
4	Insulation			
4-1	Insulation Material	XLPE	XLPE	Qualified
4-2	Color	Black	Black	Qualified
4-3	Average Thickness Of Insulation	≥1.52mm	1.56	Qualified
4-4	Min. Thickness Of Insulation	≥1.4mm	1.48	Qualified
4-5	Outer diameter after insulation	12.4mm	12.46	Qualified
5	Electrical Performance			
5-1	20°C Max D.C Resistance Of Phase Conductor	≤ 0.538 Ω /KM	0.5145	Qualified
5-2	20°C Max D.C Resistance Of Messenger Conductor	≤ 0.6256 Ω /KM	0.6079	Qualified
6	Insulation Machinery Performance			
6-1	Elongation At Stress	≤175%	50%	Qualified
6-2	Permanent Elongation After Cooling	≤15%	0%	Qualified
7	Finished product			
7-1	Cabling direction	Rightward	Rightward	Qualified
7-2	Lay Ratio	25-60times	45	Qualified
7-3	Alternating Voltage Stress Testin (3.0kv/1min)	No Breakdown	No Breakdown	Qualified
7-4	Cabling direction	26.78mm	26.87	Qualified
7-5	Cable weight	648kg/km	651	Qualified

Tested by: Shaoqiong He

Checked by: Guohui Xu

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