



## Test Report

<b>Products</b>	ABC Hackney		<b>Size</b>	3*4+4AWG	
<b>Standard</b>	ICEA S-76-474	<b>Invoice No.</b>	20230803003	<b>Date</b>	2023.08.03
<b>NO.</b>	<b>Item</b>	<b>Standards and Requirements</b>		<b>Test Results</b>	<b>Evaluation</b>
	<b>Structure</b>				
<b>1</b>	<b>Phase Core</b>				
1-1	Number of core	3		3	Qualified
1-2	Conductor Structure	7*1.96mm		7*1.96	Qualified
1-3	Conductor Material	AL		AL	Qualified
1-4	Outer Stranding Direction Of Lay	Rightward		Rightward	Qualified
1-5	Lay Ratio	10-14		13.5	Qualified
1-6	Conductor Dia.	5.88mm		5.88	Qualified
<b>2</b>	<b>Insulation</b>				
2-1	Insulation Material	Weatherability-XLPE		Weatherability-XLPE	Qualified
2-2	Color	Black		Black	Qualified
2-3	Average Thickness Of Insulation	≥1.14mm		1.20 1.19 1.19	Qualified
2-4	Min. Thickness Of Insulation	≥1.0mm		1.09 1.07 1.08	Qualified
2-5	Surface Of Insulation	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
<b>3</b>	<b>ACSR Neutral line</b>				
3-1	Steel Wire	1*2.12mm		1*2.12	Qualified



# Hangzhou Easy Electric Wire and Cable Co.,LTD

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3-2	AL. Wire	6*2.12mm	6*2.12	Qualified
3-3	Outer Stranding Direction Of Lay	Rightward	Rightward	Qualified
3-4	Lay Ratio	10-14	13.5	Qualified
3-5	Conductor Dia.	6.36mm	6.37	Qualified
3-6	Overall breaking force	8.32KN	8.79	Qualified
4	<b>Electrical Performance</b>			
4-1	20°C Max D.C Resistance Of Phase Conductor	$\leq 1.3624 \Omega / \text{KM}$	1.3415	Qualified
4-2	20°C Max D.C Resistance Of Messenger Conductor	$\leq 1.3557 \Omega / \text{KM}$	1.3326	Qualified
4-3	Alternating Voltage Stress Testing (3.5kv/1min)	No Breakdown	No Breakdown	Qualified
5	<b>Insulation Machinery Performance</b>			
5-1	Elongation At Stress	$\leq 175\%$	45%	Qualified
5-2	Permanent Elongation After Cooling	$\leq 15\%$	0%	Qualified

Tested by: Shaoqiong He

Checked by: Guohui Xu

**杭州益睿电线电缆有限公司**  
**HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD.**