



Test Report

<b>Products</b>	ABC Cable		<b>Size</b>	3*35mm <sup>2</sup> +1*54.6mm <sup>2</sup> +16mm <sup>2</sup>	
<b>Standard</b>	NF C33-209	<b>Invoice No.</b>	20230107001	<b>Date</b>	2023.01.07
<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 Phase core	3		3	Qualified
1-2	Min. Number of Wires	6		7	Qualified
1-3	Conductor Material	Aluminium conductor		Aluminium conductor	Qualified
1-4	Compacted diameter	7.0mm		7.1	Qualified
1-5	20°C Max D.C Resistance Of Phase Conductor	≤0.868 Ω /km		0.852	Qualified
<b>2</b>	<b>Insulation of phase Core</b>				
2-1	Insulation Material	UV-XLPE		UV-XLPE	Qualified
2-2	Color	Black		Black	Qualified
2-3	Thickness Of Insulation	≥1.6mm		1.64	Qualified
2-4	Min. Thickness Of Insulation	≥1.34mm		1.45	Qualified
2-5	Outer diameter after insulation	10.2mm		10.28	Qualified
2-6	Surface Of Insulation	Smooth, Clean		Smooth, Clean	Qualified
<b>3</b>	<b>AAAC Supporting Core</b>				
3-1	Conductor Structure	7*3.15		7*3.15	Qualified
3-2	Outer Stranding Direction Of Lay	Rightward		Rightward	Qualified
3-3	Lay Ratio	10-20		13	Qualified
3-4	Outer diameter of conductor	9.45mm		9.45	Qualified
3-5	Overall breaking load	16.6KN		18.2	Qualified

3-6	20°C Max D.C Resistance Of Messenger Conductor	$\leq 0.63 \Omega / \text{km}$	0.57	Qualified
3-7	Insulation Material	UV-XLPE	UV-XLPE	Qualified
3-8	Color	Black	Black	Qualified
3-9	Thickness Of Insulation	$\geq 1.6 \text{mm}$	1.65	Qualified
3-10	Min. Thickness Of Insulation	$\geq 1.34 \text{mm}$	1.49	Qualified
3-11	Outer diameter after insulation	12.65mm	12.75	Qualified
3-12	Printing Of Insulation	Printing should contains manufacturer, product and size, voltage etc. Printing should be clear, easily recognized, fastness	Passed	Qualified
4	<b>Light Core</b>			
4-1	Conductor Material	Aluminium	Aluminium	Qualified
4-2	Number of wires	7	7	Qualified
4-3	Diameter of conductor	4.8mm	4.8	Qualified
4-4	Insulation Material	UV-XLPE	UV-XLPE	Qualified
4-5	Color	Black	Black	Qualified
4-6	Thickness Of Insulation	1.2mm	1.25	Qualified
4-7	Min. Thickness Of Insulation	0.98mm	1.02	Qualified
4-8	Outer diameter after insulation	7.2mm	7.3	Qualified
4-9	20°C Max D.C Resistance	$\leq 1.91 \Omega / \text{km}$	1.84	Qualified
5	<b>Insulation Machinery Performance</b>			
5-1	Elongation At Stress	$\leq 175\%$	60%	Qualified
5-2	Permanent Elongation After Cooling	$\leq 15\%$	1%	Qualified
6	Finished product			

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6-1	Cabling direction	Rightward	Rightward	Qualified
6-2	Cable outer diameter	33.1mm	35.4	Qualified
6-3	Cable weight	690kg/km	693	Qualified

Tested by: Jingyan Zhao

Checked by: Guohui Xu

**杭州益睿电线电缆有限公司**  
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