



# Hangzhou Easy Electric Wire and Cable Co.,LTD

Add: Room 305, Building 2, No. 380 Fengxin Road, Hangzhou, China

[www.eescable.com](http://www.eescable.com)

## Test Report

Products	18/36KV CABLE ALU		Size	3*240MM <sup>2</sup>		
Standard	IEC60228 IEC60502-2 NFC33-226		Invoice No.	20230104001	Date	2023.01.04
NO.	Item	Standards and Requirements		Test Results	Evaluation	
	<b>Structure</b>					
1	<b>Phase Core</b>					
1-1	Number of core	3	3	3	Qualified	
1-2	No.of wire	30	37	37	Qualified	
1-3	Conductor Material	AL	AL	AL	Qualified	
1-4	Approx Conductor Dia.	18.4mm	18.42mm	18.42mm	Qualified	
2	<b>Conductor screen</b>					
2-1	Material	Extruded semi-conductive compound	Extruded semi-conductive compound	Extruded semi-conductive compound	Qualified	
2-2	Nominal thickness	0.7mm	0.8mm	0.8mm	Qualified	
2-3	Minimum Thickness	0.3mm	0.4mm	0.4mm	Qualified	
3	<b>Insulation</b>					
3-1	Material	XLPE	XLPE	XLPE	Qualified	
3-2	Nominal thickness	8.0mm	8.4mm	8.4mm	Qualified	
3-3	Minimum Thickness	7.1mm	7.6mm	7.6mm	Qualified	
3-4	Outer insulation diameter	35.8mm	36.7mm	36.7mm	Qualified	
4	<b>Screen after insulation</b>					
4-1	Material	Extruded semi-conductive compound	Extruded semi-conductive compound	Extruded semi-conductive compound	Qualified	
4-2	Nominal thickness	0.8mm	0.85mm	0.85mm	Qualified	

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4-3	Minimum Thickness	0.4mm	0.46mm	Qualified
5	<b>Semi-Conductive Water Blocking Tape</b>			
5-1	Nominal thickness	0.3mm	0.3mm	Qualified
6	<b>Metallic shield</b>			
6-1	Aluminum tape shielding	0.15mm	0.165mm	Qualified
7	<b>Outer Sheath</b>			
7-1	Material	HDPE	HDPE	Qualified
7-2	Color	black	black	Qualified
7-3	Nominal thickness	2.3mm	2.4 mm	Qualified
7-4	Minimum Thickness	1.64mm	1.72mm	Qualified
8	<b>Finished Product</b>			
8-1	Approximate Overall Diameter Of Cable	92.1mm	93.7mm	Qualified
8-2	Direction Of Lay	Rightward	Rightward	Qualified
9	<b>Electrical Performance</b>			
9-1	20°C Max D.C Resistance Of Phase Conductor	$\leq 0.125 \Omega / \text{KM}$	0.114	Qualified
9-2	Partial discharge test(31kv)	$\leq 5\text{pc}$	2pc	Qualified
9-3	Alternating Voltage Stress Testing (63kv/5min)	No Breakdown	No Breakdown	Qualified

Tested by: Shaoqiong He

Checked by: Guohui Xu

**杭州益睿电线电缆有限公司**  
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