



# TEST REPORT

Product Name: Aerial Insulated Cable Report No: PUO.20230330002

Model specification: 3\*4AWG(AAC/XLPE)+1\*4AWG (ACSR) DATE: 2023.04.22

Quantity: 4000m Inspection basis: According to technical agreement

No	Test Items	Unit	Standard Requirement	Test Result
1	structure size			
1.1	Number of conductor single wires	root/diameter	Phase 7/1.96 Bare wire 6/2.12+1/2.12	Phase 7/1.96 Bare wire 6/2.12+1/2.12
1.2	Aluminum Single Wire Mechanical Properties Steel wire mechanical properties	N/mm <sup>2</sup>	Phase $\geq 195$ Bare wire $\geq 190 \geq 1450$	Phase 207 219 213 Bare wire 214 1592
1.3	Stranded tight outer diameter	mm	Phase 5.88 Bare wire 6.36	Phase 5.88 Bare wire 6.36
1.4	Twist		Phase right Bare wire right	Phase right Bare wire right
1.5	pitch ratio	Times	Phase 13-16 Bare wire 12-14.5	Phase 15.3 Bare wire 13.5
2	Insulation Thickness		XLPE	XLPE
2.1	Insulation Average Thickness	mm	$\geq 1.14$	1.20 1.21 1.20
2.2	Thickness at the thinnest point	mm	$\geq 1.03$	1.14 1.15 1.16
2.3	Insulation outer diameter	mm	$\geq 8.17$	8.26 8.28 8.26
3	Conductor DC resistance (20°C)	$\Omega/\text{km}$	Phase 1.3539 Neutral 1.3501	Phase 1.3379 Neutral 1.3247



## Hangzhou Easy Electric Wire and Cable Co.,LTD

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4	AC voltage	kV	3.5kV/1min No breakdown	No breakdown
5	Thermal extension test			
5.1	Elongation at break under load	%	≤175	65 60 55
5.2	Permanent deformation rate after cooling	%	≤15	0 0 0
6	Printed logo, spacing		hot print, complete, clear	pass
7.1	Cabling direction		right	right
7.2	Cabling aspect ratio	times	Not larger than the outer diameter of the phase wire 25-60times	48
7.3	Cable outer diameter	mm	18.62	18.70
<p>Conclusion: The inspected items meet the technical agreement standard requirements.</p>				

Inspection: Shi Dongdong    Review: Wang Xiaoyan    Approval: Wang Aihong

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