



# TEST REPORT

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

Model specification: 1\*6AWG(AAC/XLPE)+6AWG(ACSR) DATE: 2023.04.18

Quantity: 6000m 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/dia meter	Phase7/1.55±0.01 Neutral6/1.68+1/1.68	Phase7/1.56 Neutral6/1.68+1/1.67
1.2	Aluminum Single Wire Mechanical Properties Steel wire mechanical properties	N/mm <sup>2</sup>	Phase≥195 Neutral≥195 Steel wire≥1450	Phase219 Neutral216 Steel wire 1615
1.3	Stranded tight outer diameter	mm	Phase4.65 Neutral5.04	Phase4.66 Neutral5.05
1.4	Twist		Phase right Neutral right	Phase right Neutral right
1.5	pitch ratio	Times	Phase13-16 Neutral10-14	Phase 14.3 Neutral 13.7
2	Insulation Thickness			
2.1	Insulation Average Thickness	mm	≥1.14	1.21
2.2	Thickness at the thinnest point	mm	≥1.03	1.12
2.3	Insulation outer diameter	mm	≥6.95	7.1
3	Thermal extension			



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	test			
3.1	Elongation at break under load	%	≤175	60
3.2	Permanent deformation rate after cooling	%	≤15	0
4	Conductor DC resistance (20℃)	Ω/km	Phase≤2.158 Neutral ≤2.1499	Phase2.0973 Neutral2.0657
5	AC voltage	kV	3.5kV/1min No breakdown	No breakdown
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 wire25-60times	39
7.3	Cable outer diameter	mm	11.98	12.05

Conclusion: The inspected items meet the technical agreement standard requirements.

Inspection: Shi Dongdong

Review: Wang Xiaoyan

Approval: Wang

Aihong

**杭州益睿电线电缆有限公司**  
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