



TEST REPORT

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

Model specification: 3*2AWG(AAC/XLPE)+2AWG(ACSR) DATE: 2023.04.21

Quantity: 2000m 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	Phase 7/2.47 Neutral 6/2.67+1/2.67	Phase 7/2.47 Neutral 6/2.67+1/2.67
1.2	Aluminum Single Wire Mechanical Properties Steel wire mechanical properties	N/mm ²	Phase ≥ 175 Neutral ≥ 170 Steel wire ≥ 1410	Phase 188 196 201 Neutral 194 Steel wire 1546
1.3	Stranded tight outer diameter	mm	Phase 7.41 Neutral 8.01	Phase 7.40 Neutral 8.0
1.4	Twist		Phase right Neutral right	Phase right Neutral right
1.5	pitch ratio	Times	Phase 13-16 Neutral 10-14	Phase 14.2 Neutral 13.6
2	Insulation Thickness			
2.1	Insulation Average Thickness	mm	≥ 1.14	1.21 1.20 1.19
2.2	Thickness at the thinnest point	mm	≥ 1.03	1.15 1.14 1.12
2.3	Insulation outer diameter	mm	≥ 9.71	9.8 9.76 9.74
3	Thermal extension test			



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3.1	Elongation at break under load	%	≤175	60 65 60
3.2	Permanent deformation rate after cooling	%	≤15	0 0 0
4	Conductor DC resistance (20℃)	Ω/km	Phase ≤0.8525 Right ≤0.8512	Phase 0.8347 Right 0.8238
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 wire 25-60times	49
7.3	Cable outer diameter	mm	22.41	22.50

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

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

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