



TEST REPORT

Product Name: Aerial Insulated Cable Report No: PUO.20230321002

Model specification: 1*8AWG(AAC/XLPE)+8AWG(ACSR) DATE: 2023.04.16

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/dia meter	Phase 7/1.23 Neutral 6/1.30+1/1.33	Phase7/1.23 Neutral 6/1.31+1/1.33
1.2	Aluminum Single Wire Mechanical Properties Steel wire mechanical properties	N/mm ²	Phase \geq 170 Nutra \geq 200 Steel wire \geq 1340	Phase203 Neutral 212 Steel wire 1620
1.3	Stranded tight outer diameter	mm	Phase3.69 Neutral3.93	Phase 3.69 Neutral3.94
1.4	Twist		Phase right Neutral right	Phase right Neutral right
1.5	pitch ratio	Times	Phase13-16 Neutral10-14	Phase 17.6Neutral 12.5
1.6	load line breaking force	KN	\geq 3.35	4.13
2	Insulation Thickness			
2.1	Insulation Average Thickness	mm	\geq 1.14	1.21
2.2	Thickness at the thinnest point	mm	\geq 1.03	1.14
2.3	Insulation outer diameter	mm	\geq 5.97	6.10
3	Thermal extension test			
3.1	Elongation at break under load	%	\leq 175	65
3.2	Permanent deformation	%	\leq 15	0



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	rate after cooling			
4	Conductor DC resistance (20℃)	Ω/km	Phase ≤ 3.454 Neutral ≤ 3.429	Phase 3.3607 Neutral 3.3774
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	42
7.3	Cable outer diameter	mm	10.04	10.12
Conclusion: The inspected items meet the technical agreement standard requirements.				

Inspection: Shi Dongdong

Review: Wang Xiaoyan

Approval: Wang Aihong

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