



TEST REPORT

product name: Aerial Insulated Cable Report No: PUO.20230321002

Model Specifications: 3*6AWG(AAC/XLPE)+1*6AWG (ACSR)

inspection date: 2023.04.16

长 度: 2000 m Inspection basis: According to the technical agreement

NO	Test items	unit	standard requirement	test result
1	structure size			
1.1	Number of conductor single wires	root/dia meter	Phase conductor 7/1.55 Bare wire 6/1.68+1/1.68	Phase conductor 7/1.55 Bare wire 6/1.67+1/1.67
1.2	single line tensile strength Steel wire tensile strength	N/mm2	Phase ≥ 190 Bare ≥ 190 ≥ 1410	Phase 212 Bare 217 1518
1.3	Strand outer diameter	mm	Phase 4.68 Bare 5.04	Phase 4.68 Bare 5.0
1.4	Twist		Phase Right Bare Right	Phase Right Bare Right
1.5	pitch ratio	times	Phase 13-16 Bare 10-14	Phase 14.0 Bare 13.7
2	Insulation Materials		XLPE	XLPE
2.1	Insulation Average Thickness	mm	≥ 1.14	1.21 1.19 1.20
2.2	Thickness at the thinnest point	mm	≥ 1.03	1.14 1.13 1.14
2.3	Insulation outer diameter	mm	≥ 6.95	7.0 7.0 7.0
3	Conductor maximum DC resistance (20°C)	Ω/km	phase conductor 2.210 bare conductor 2.1499	phase conductor 2.1024 bare conductor 2.0934
4	AC voltage	kV	Single-phase 3.5kV/1min without breakdown	Not broken down
5	Thermal extension test			
5.1	elongation under load	%	≤ 175	65 65 60
5.2	permanent elongation after cooling	%	≤ 15	0 0 0



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6	printed logo		hot print, complete, clear	accord
7.1	Cabling direction	mm	right	right
7.2	Cabling aspect ratio	Times	25-60 times the outer diameter of the phase wire	42
7.3	Cable outer diameter	mm	15.62	15.76

Conclusion: The inspected items meet the requirements of technical agreement standards.

Inspection: Jin Xiaoping

Audit: Shi Dongdong

Approval: Wang Aihong

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