

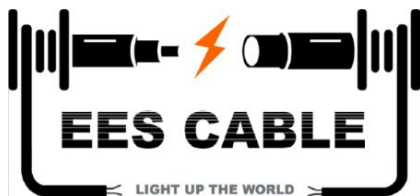
## Test Report

Products : Overhead Insulated Cable Report number : PUO.20220623004 Model

Specifications: 1\*6AWG+6AWG(AAC/XLPE) Inspection date: 2022.07.25

Quantity: 1889.225km Testing base: Technology Agreement

NO	Test items	Unit	Standard	Test result
1	Structure size			
1.1	Number of single conductors	root/diameter	Phase line 7/1.56 Bearing line 7/1.56	Phase line 7/1.555 Bearing line 7/1.56
1.2	Mechanical properties of aluminum single wire	N/mm <sup>2</sup>	Phase wire $\geq 195$ Bearing wire $\geq 195$	Phase line 209 Bearing line 214
1.3	Confining outer diameter	mm	Phase line 4.68 Bearing line 4.68	Phase line 4.66 Bearing line 4.66
1.4	Hang to		Phase line right bearing line right	Phase line right bearing line right
1.5	lay ratio	times	Phase line 13-16 Bearing line 10-14	Phase Line 15.6 Bearing Line 15.2
1.6	The conductor pulls and breaks the force	KN	$\geq 2.51$	2.56 2.72
2	insulation material		XLPE	XLPE
2.1	Insulation average thickness	mm	$\geq 1.63$	1.68 1.67
2.2	The thickness of the thinnest part	mm	$\geq 1.40$	1.61 1.59
2.3	Insulation outer diameter	mm	$\geq 7.94$	8.0 8.0
2.4	Insulation tensile strength before aging	MPa	$\geq 12.4$	18.1 17.6
2.5	Insulation elongation before aging	%	$\geq 250$	620 600



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3	Thermal extension test			
3.1	Break elongation under load	%	≤175	70 65
3.2	Permanent deformation rate after cooling	%	≤15	0 0
4	conductor DC resistance (20°C)	Ω /km	≤2.17	2.108 2.1067
5	alternating voltage	kV	3.0kV / 1min	Not breakdown
6	Print signs, spacing		According to the contract requirements, laser spray printing	pass through
7.1	The cable winch to		dextrad	dextrad
7.2	Cable diameter ratio	times	No greater than 25-60 times the outer diameter of the phase line	34
7.3	Cable outer diameter	mm	15.88	15.90
Conclusion: The inspected items meet the requirements of the technical protocol standards.				

Inspection: Dongdong Shi , audit: Xiaoyan Wang , approval: Aihong Wang

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