

TEST REPORT

Name: Triplex ABC Cable

Number: PUO.20220930001

Model: 2*2AWG(AAC/XLPE)+1*4AWG (AAAC)

Inspection date: 2022.10.24

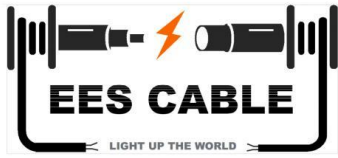
Length: 3km

Test basis: Technical protocol

NO.	Test items	unit	standard requiremen	test result
1	structure size			
1.1	Conduct single -line root number	root/mm	Phase conductor 7/2.47 carrier wire 7/2.12	Phase conductor 7/2.47 carrier wire 7/2.12
1.2	Aluminum single -wire tensile strength Carrier line resistance intensity	N/mm2	≥185 ≥ 330	194 198 338
1.3	Gangster outer diameter	mm	Phase line 7.41 Bearing line 6.36	Phase line 7.41 Bearing line 6.36
1.4	Twisted		Phase line right bearing line right	Phase line right bearing line right
1.5	Section ratio	times	Phase line 10-16 carrier line 12-14.5	相线 14.8 承载线 13.5
1.6	Carrier line tension	KN	≥7.82	8.74
2	Insulation Materials		XLPE	XLPE
2.1	Insulation average thickness	mm	≥1.14	1.20 1.21
2.2	The thinnest thickness	mm	≥1.03	1.13 1.16
2.3	Insulation outer diameter	mm	≥9.70	9.75 9.75
3	The maximum DC resistance of the conductor(20 ° C)	Ω/km	Phase conductor 0.875 Bearing conductor 1.36	Phase conductor 0.824 Bearing conductor 1.312
4	AC voltage	kV	3.5kV/1min no breakdown	No breakdown

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5	Carbon black content	%	≥ 1.5	1.61
6	Heat extension test			
6.1	Load extension rate	%	≤ 175	60 65
6.2	Permanent extension rate after cooling	%	≤ 15	0 0
7	Printing		Laser jet printing according to the contract	accord with
7.1	Cable twisted	mm	Right	Right
7.2	Sequence of cables		Phase A, B, bearing line	accord with
7.3	Cable to form a diameter ratio	times	25-60 times of outer diameter of phase line	37
8	Cable diameter	mm	18.22	18.24
<p>Conclusion: The project's project meets the requirements of technical agreement standards.</p>				

test: Jin Xiaoping

Review: Shi Dongdong

approve: Wang Aihong

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