



报告编号 Reference№

CT21-03176

## 检测报告 Test Report

样 品 名 称 Name of sample _		Concentric-Lay-Stranded Aluminum Conductors, Aluminum-Alloy Reinforced		
样	品型号 Type of sample_	ACAR ASTM B524 ACAR		
委	托 方 Consigner _	HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD		
试	验 类 型 Kind of test	Commission test		

上海国缆检测股份有限公司

SHANGHAI NATIONAL CENTER OF TESTING AND INSPECTION FOR ELECTRIC CABLE AND WIRE CO., LTD

国家电线电缆质量检验检测中心

CHINA NATIONAL CENTRE OF TESTING AND INSPECTION FOR ELECTRIC CABLE AND WIRE



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Туре	Type and size ACAR ASTM 1250MC		I Relevence No		CT21-03176	
No.		Test Items	Unit	Requirements	Test Results	Verdic
1	Structure	size				
1,1	Number of AI wires		No.	48	48	Р
1.2	Number of Al alloy wires		No.	13	13	Р
2	Conducto	r dìameter	mm	Y	32.74	N
3	Surface q	uality		The conductor shall be free of all imperfections not consistent with good commercial practice	Pass	Р
4.1	Direction	of lay		Adjacent wire layers shall be stranded with reverse lay directions, the direction of lay of the external layer shall be "right-hand".	Reverse, "right-hand"	P
4.2	Lay ratio			Lay radio of every layer, should not more than the close inner one.		Р
4.2.1	Inner laye	er		10~16	15.4	Р
4.2.2	Adjacent	inner layer		10~16	12,4	P
4.2.3	Adjacent	outer layer		10~16	12.2	Р
4,2.4	Outer lay	er		10~16	10.9	P
5	The prop wire (Stra	perties of Al alloy anded)				
5.1	Appearar	nce		The wire shall be free of all imperfections not consistent with good commercial practice.	Pass	P
5.2	Diameter		mm	3.635±0.036	3.633	Р

Note: "P" means this item does meet the requirement, "F" means this item does not meet the requirement, "N" means this item does not require to the verdict.

Type and size ACA		ACAR ASTM B 1250MCM	524 ACAR- -48/13	Reference No.	Page 3 of 4 CT21-03176	
No.	Ť	est Items	Unit	Requirements	Test Results	Verdict
5.3	Tensile str	ength				
5.3.1	Average fo	or a Lot	MPa	≥299 (315×0.95)	341	P
5.3.2	Individual	tests	MPa	≥290 (305×0.95)	328	Р
5.4	Elongation (L₀=250 m test)	n after fracture m) (Individual	%	≥3.0	5.4	Р
5.5	DC resistiv	vity at 20℃	Ω· mm²/m	≤0.032841	0.031930	Р
5.6	Bending(lo own dia mandrel)	poped around its ameter with a		No fracture shall occur.	No fracture occurred.	Р
6	Properties (stranded)		1 T			
6.1	Appearance	ce		The wire shall be free of imperfections not consistent with good commercial practice.	Pass	Р
6.2	Diameter		mm	3.635±0.036	3.636	Р
6.3	Tensile str	ength			O,	
6.3.1	Average for	or a Lot	MPa	≥162 (170×0.95)	184	Р
6.3.2	Individual	tests	MPa	≥152 (160×0.95)	175	Р
6.4	Elongation (L <sub>0</sub> =250 m	n after fracture nm)		•	-	
6.4.1	Average for	or a Lot	%	≥1.9	2.0	Р
6.4.2	Individual	tests	%	≥1.8	2.0	Р

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Type and size ACAR ASTM BS 1250MCM		524 ACAR- I-48/13 Reference No.		CT21-03176		
No.	i	est Items	Unit	Requirements	Test Results	Verdic
6.5 6.5.1 6.5.2 6.6	Average for Individual Bending(I	tests	$\Omega$ · mm²/m $\Omega$ · mm²/m	≤0.028172 ≤0.028265 No fracture shall	0.028063 0.028160 No fracture occurred.	P P
	own dia mandrel)	ameter with a		occur.		
			End	of Report	1	, <
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