



报告编号 Reference№

CT20-06769-2

检测报告 Test Report

样	品 名 称 Name of sample	Aluminum conductor steel reinforced
样	品型号 Type of sample	ACSR
委	托 方 Consigner	HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD
试	验 类 型 Kind of test	Commission test

国家电线电缆质量监督检验中心
CHINA NATIONAL CENTRE FOR QUALITY
SUPERVISION AND TEST OF ELECTRIC WIRE AND CABLE



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China National Centre for Quality Supervision and Test of Electric Wire and Cable Test Report

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							Fage 1014				
Kind of test		Commission test	Reference No.		CT20-06769-2						
Name of sample		Aluminum conductor steel reinforced									
Ту	pe and Size	ACSR 397.5MCM (Ib	ois)	Date of test 2020-10-28~2020-11-02							
er	Name	HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD									
Consigner	Address	Room B415, Future Technology Park, No.7 Long Tan Road Hangzhou, CHINA									
ŏ	Tel.	158 6927 4963	P.C.	1		Unit No.	057129				
rer	Name	HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD									
Manufacturer	Address	Room B415, Future Technology Park, NO.7 Long Tan Road Hangzhou, CHINA									
Mar	Tel.	158 6927 4963	P.C.	I		Unit No.	057129				
	elivering mode	Supplied by consigner	Sample state at receiving	Normal		Receiving date	2020-10-28				
st	Test andard	ASTM B232/B232M-17 Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel Reinforced (ACSR)									
	/erdict tandard	Same as test standard									
Conclusion		"Mass per unit length of the Conductor" and "DC resistance at 20°C of the conductor" tested for the sample supplied with test results, and other items comply with the requirements of ASTM B232/B232M-17.									
Note		 The consigner supplied name, type and size of the sample and is responsible for them; Consigner request to verdict according to the requirement of ACSR/GA2 in ASTM B232/B232M-17. 									
Tested by		Wang HongMei	Checked by	Wang Xu		Approved by	Fan YuJun				
Date		2020, 1 , 02	Date	1020. 11. 2		Date	2020-11-02				



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Type and size ACSR 3			97.5MCM (Ibis) Reference No			Page 2 c c. CT20-06769-2		
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No.	Test Ite	ms	Unit	Re	quirements	Tes	t Results	Verdict
1	Structure							
1.1	Number of Al w	/ires	No.	26			26	Р
1.2	Number of stee	el wires	No.	7			7	Р
2	Conductor dian	neter	mm	19.89±0.20).		20.05	Р
3	Aluminium		mm²	≥197.3			Р	
				(201.3×0.	98)			
4	Surface				tor shall be clean fimperfections not with good practice.		Pass	Р
5	Lay							
5.1	Direction of lay			outside lay hand, the debe reverse layers.	on of lay of the er shall be right irection of lay shall ed in successive	"riç	everse, ght-hand"	. р
5.2	Inertness			evenly and around the the core; wh cut, the will position or by hand	l each layer shall be closely stranded underlying wire or the conductor is res shall remain in the readily replaced and then remain the residue.	Evenly	and Closely	P
5.3	Lay ratio				f every layer should nan the close inner		Pass	Р
5.3.1	Steel core			16~26			18.6	Р
5.3.2	Al wires layer							
5.3.2.1	Inner layer			10~16	4.		13.4	P
5.3.2.2	Outer layer			10~13	magne this item door		10.4	Р

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

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Type and size ACSR 397		7.5MCM (Ibis) Refere		ence No.	СТ2	20-06769-2		
No.	Test Items		Unit	Re	quirements	Test R	esults	Verdict
6.1	Properties of Steel wires (stranded)							
2357.32	Diameter					0.46	20	
6.1.1	Core wire		mm	$2.44 \pm 0.$		2.48	2.486	P _
6.1.2	6-wires lay	/er	mm	2.44±0.051		2.485	Р	
6.2	Tensile str	ength						
6.2.1	Core wire		MPa	≥1340		1571		Р
				(1410>	(0.95)			
6.2.2	6-wires lay	/er	MPa	≥1340		1577	1573	Р
				(1410×0.95)				
6.3	Stress at 1	1% extension	MPa	≥1280		1385		Р
6.4	Elongation	Elongation after		≥3.5		4.5		Р
	fracture			342.57 (1900) (1900)				
	(L ₀ =250 ı	mm)						
6.5	Wrapping	test		No fracti	ure shall occur.	No fracture	occurred.	Р
	(2d, 8tur	ns)						
6.6	Zinc coatii	ng						
6.6.1	Mass of z	inc coating	g/m²	≥229		27	2	Р
6.6.2	Adherence	e of zinc		The zinc	coating shall not	No cr	acking,	Р
	coating (4	d)		crack no	or flake to such an	no fla	aking	
					hat any zinc can) '		
					oved by rubbing			
				with bar	e fingers.			
7		s of Al wires						
7.1	(stranded) Diameter)	mm	3.14±0	03	3.	16	P
		von ath		5.14-0	.00			
7.2	Tensile st						7.4	
7.2.1	Individual		MPa	≥152 (160×0	(05)	17	74	P
700	A		MDo	(160×0	າ.ອວ)	19	30	Р
7.2.2	Average		MPa	≥162 (170×0).95)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	DV (1	1- 11 1			t "F" means this it		ant the rea	uiromont

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Туре	and size	ACSR 3	397.5MCM (Ibis) Referen		Reference	No.	CT20-06769	-2
No.	Te	est Items	Unit	Require	ments		Verdict	
7.3	DC resistiv	vity at 20°C						
7.3.1	Individual		$\Omega \cdot mm^2/m$	≤0.028265			0.02815	Р
7.3.2	Average		Ω·mm²/m	≤0.028172			0.02813	Р
7.4	Bending (1d)		The wire shall	not break.	No	breakage occurred.	Р
8		unit length of the	kg/km	1			832.1	N
9	Conductor DC resista	r ance at 20℃ of	Ω/km	1		0.1326		
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