



报告编号 Reference№

CT20-02000

检测报告 Test Report

样	品名称 Name of sample _	Aluminum conductor steel reinforced
样	品 型 号 Type of sample _	
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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Kind of test		Commission test		Reference N	lo.	CT20-02000	Page 1 01 4				
Name of sample		Aluminum conductor steel reinforced									
Type and Size		95/15	Date of test	t 2020-04-20~2020-04-29							
Je.	Name	HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD									
Consigner	Address	Room B415, Future Technology Park, No.7 Long Tan Road Hangzhou, CHINA									
ပိ	Tel.	158 6927 4963	P.C.	1		Unit No.	057129				
rer	Name	HANGZHOU EASY E	ELECTRIC WIRE A	ND CABLE CO	., LTD)					
Manufacturer	Address	Room B415, Future Technology Park, NO.7 Long Tan Road Hangzhou, CHINA									
Mar	Tel.	158 6927 4963	P.C.	1		Unit No.	057129				
	elivering mode	Supplied by consigner	Sample state at receiving	Normal		Receiving date	2020-04-17				
Test standard		IEC 61089:1991+A1:1997 Round wire concentric lay overhead electrical stranded conductors									
Verdict standard		Technical specification supplied by consigner IEC 61089:1991+A1:1997 Round wire concentric lay overhead electrical stranded conductors									
Conclusion		The items tested for the sample comply with the requirements of technical specification supplied by consigner and IEC 61089:1991+A1:1997									
Note		Name, type and size of the sample are supplied by consigner; Consigner requests to verdict according to the requirements of A1/S1A in IEC 61089:1991+A1:1997									
Тє	ested by	Wang HongMei	Checked by	Wang Xu J 1821		Approved by	Mao AXing				
	Date	2020 4. 29	Date	2020.4.30	2	Date	3020. V. 7, T				

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Type and size			95/15		Reference N	Page 2 of 4 CT20-02000		
No.	Test Items		Unit	Req	uirements	Test Results		Verdict
1	Structure							
1.1	Number of Al w	ires	No.	26			26	Р
1.2	Number of stee	l wires	No.	7			7	Р
2	Conductor diam	neter	mm	13.6±0.1			13.6	Р
3	Cross-sectional	area						
3.1	Steel		mm²	1		15.0		N
3.2	Aluminium		mm²	94.4±1.9		,	95.5	Р
3.3	Total		mm²	1		1	10.5	N
4	Surface			The surface	of the conductor	F	Pass	Р
				shall be	free from all			
				imperfection	s visible to the			
				unaided eye	e, such as nicks,			
				indentations	, etc., not			
				consistent	with good			
				commercial	practice.			
5	Lay							
5.1	Direction of lay			Adjacent wir	e layers shall be	Re	verse,	Р
				stranded w	rith reverse lay	"righ	nt-hand"	
				directions, th	ne direction of lay			
				of the exteri	nal layer shall be			
				"right-hand".				
5.2	Inertness			The wires in	each layer shall	Evenly a	and Closely	Р
				be evenly	and closely			
				stranded	around the			
				underlying v	vire or the core;			
				where the	conductor is cut,			
				the wires	shall remain in			
				position or b	e readily replaced			
				by hand a	nd then remain			
				approximate	ly in position.			

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.





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Туре	and size	99	5/15		Refe	Reference No.		-02000
No.	Test Items		Unit	Requirements		Test Results		Verdict
5.3	Lay ratio			Lay radio of every layer should not more than the close inner one.		Pass		Р
5.3.1	Steel core	layer		16~26		16.4	Р	
5.3.2	Al wires lay	ver ver						
5.3.2.1	Inner layer			10~16		15.6	3	Р
5.3.2.2	Outer layer			10~14		13.1		Р
6 6.1	Properties (stranded) Diameter	of Steel wires		15				
0.1	Diameter							
6.1.1	Core wire		mm	1.67±0.03		1.66		Р
6.1.2	6-wire layer	r	mm	1.67±0.03		1.64 1.65		Р
6.2	Tensile stre	ngth			a a			
6.2.1	Core wire		MPa	≥1273 (1340×0	0.95)	155	1	Р
6.2.2	6-wire layer		MPa	≥1273 (1340×0	0.95)	1573	1564	Р
6.3	Stress at 19	% extension	MPa	≥1170		1469	9	Р
6.4	Elongation (L₀=250 m	after fracture m)	%	≥3.0		5.3	e e	Р
6.5	Torsion(100	0d)	No.	≥18		34		Р
6.6		est (1d, 8turns)		The wire s		No breakage	-	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.

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Type and size		95/15						-02000	
No.	Т	est Items	Unit	Require	ments	Tes	st Results	Verdict	
6.7	Zinc coatin	g							
6.7.1	Mass of zir	nc coating	g/m²	≥200			202	Р	
6.7.2	Adherence	(4d, 8turns)		The zinc coat	ing shall not	No	cracking,	Р	
				crack nor flake	e to such an	nc	flaking		
				extent that any	zinc can be				
	*			removed by r	ubbing with				
				bare fingers.		3			
6.7.3	Continuity			There shall be		Smoot	Р		
				the coating,	the zinc				
				coating s	hall be smooth,				
				uniform thickn					
				dillionii tillokii	000.				
7	Properties	of Al wires						5	
'	(stranded)	of Al Wiles						N. A.	
7.1	Diameter	9							
7.1.1	Inner layer		mm	2.15±0.03			2.17	Р	
7.1.2	Outer layer		mm	2.15±0.03		2.10	3 2.16	Р	
7.2	Tensile stre	ength							
7.2.1	Inner layer		MPa	≥171		212		Р	
				(180×0.95)	1				
7.2.2	Outer layer		MPa	≥171		214	1 194	Р	
				(180×0.95)					
7.3	DC resistiv	ity at 20℃							
7.3.1	Inner layer		nΩ·m	≤28.264		28.09		Р	
7.3.2	Outer layer		nΩ·m	≤28.264		28.04	28.16	Р	
7.4	Wrapping	test (1d winds 8		The wire shall	not break.	No break	age occurred.	Р	
	circles, re	eturns 6 circles,							
•	once close								
8	Mass per i	unit length of the	kg/km	380.2±7.6		•	377.7	Р	
Noto: "E		s item does meet th	o roquiromon	t "E" moone this	s item does n	ot most the	requirement "N		

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.