



报告编号 Reference№

CT23-02177

## 检测报告 Test Report

样 品 名 Aerial Bundled Cable Name of sample 样 品 型 0.6/1kV Aerial Bundled Cable 3×70+54.6+16 NFC Type of sample 托 方 Hangzhou Easy Electric Wire and Cable Co., Ltd. Consigner 型 试 类 验 **Commission Test** Kind of test 上海国缆检测股份有限公司

国家电线电缆质量检验检测中心

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

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



地址:上海市宝山区真陈路888号 邮编:200444 电话:021-65493333 传真:021-65490171

电子邮箱:ewec@ticw.com.cn 报告查询网站:www.ticw.com.cn

## Shanghai National Center of Testing and Inspection for Electric Cable and Wire Co., Ltd. China National Centre of Testing and Inspection for Electric Cable and Wire Test Report

Page 1 of 4

							Page 1. of 4			
Kind of test Name of sample		Commission Test Reference No.			No.	CT23-02177				
		Aerial Bundled Cable								
Type and Size		0.6/1kV Aerial Bundled Cable 3×70+54.6+16 NFC Date of test 20			202	23-05-25~2023-06-29				
Consigner	Name	Hangzhou Easy Electric Wire and Cable Co., Ltd.								
	Address	Room 305, Building 2, No. 380 Fengxin Road, Hangzhou, China								
	Tel.	19560490934	P.C.	311121		Unit No.	057129			
urer	Name	Hangzhou Easy Electric Wire and Cable Co., Ltd.								
Manutacturer	Address	Room 305, Building	2, No. 380 Fengxin	Road, Hangzho	ou, C	hina				
Mar	Tel.	19560490934	P.C.	311121		Unit No.	057129			
Delivering mode		Supplied by consigner	Sample state at receiving	Normal		Receiving date	2023-05-23			
				24-4000 - 84-40	07.0	2.2002				
	Test standard	1. NF C 33-209 (cores for overh	HD 626 strhead distribution calculus 1996) Insulated ead systems of rated	or protected ca	ltage	U <sub>0</sub> /U(U <sub>m</sub> ): 0.6/1(1.2	<u> </u>			
S	standard	1. NF C 33-209 (a cores for overh 2. Technical requi The number of wire the technical requi 33-209 (July 1996)	HD 626 Strhead distribution calculated distribution ca	or protected ca voltage 0.6/1k ie consigner or and the lay of	ables V	for power systems on of neutral conducer items, tested co	Bundle assemble			
S	Verdict standard	1. NF C 33-209 (a cores for overh 2. Technical requi The number of wire the technical requi 33-209 (July 1996)	HD 626 strhead distribution calculated distribution ca	or protected ca voltage 0.6/1k ie consigner or and the lay of the consigner	ables V inections of the control of	for power systems on of neutral conducer items tested co	Bundle assemble ctor complied with NF ell as the relevant			
Co	Verdict standard	1. NF C 33-209 (cores for overh 2. Technical requi The number of wire the technical requi 33-209 (July 1996) 1. Name, type and 2. NF C 33-209 (	HD 626 strhead distribution calculated distribution ca	or protected ca voltage 0.6/1k ie consigner or and the lay of the consigner	ables V inections of the control of	for power systems on of neutral conducer items tested co	Bundle assemble ctor complied with NF with NF			

Type and size 0.6/1kV Aeria 3×70+54				Reference.No		CT23-	CT23-02177	
CI.	CI. Test Items		Unit	Requirements	Test Results		lts	Verdic
	Inspected phase conductor identification(70mm²) Inspected neutral conductor identification (54.6mm²)			1	black1	black2	black3	N
				1		black		N
	Inspected public lighting conductor identification (16mm²)			Alexonolyten ,	black		N	
1	constructi	ion		2				d
1.1	Phase co	res	1.10	43-03				
1.1.1	Conducto	or a three		hatch and				
10.2	Conductor material			Aluminum	Stranded	l compacte Aluminum		Р
	— Num	ber of wires		14	14	14	14	Р
	— Diam	neter of conductor	mm	9.7~10.2	9.9	10.0	10.0	Р
	— Lay layer	direction of the outer		T		Left hand		N
1.1.2	Insulation	1		State of the state				
	— Aver	age thickness	mm	Min.1.8	1.9	2.0	1.9	Р
	— Minir	mum thickness at any	mm .	Min.1.52	1.59	1.81	1.79	Р
1.1.3	Overall d	iameter of the core	mm	13.3~14.2	13.7	13.8	13.7	Р
1.2	Neutral c	onductor		mentale soil ()				
1.2.1	Conducto	or		cont with				
	Conductor material			Aluminium alloy	Aluminium alloy		lloy	Р
2	— Num	ber of wires		7		7		Р
	— Diam	neter of conductor	mm	9.2~9.6	10.53	9.5		Р
	Lay direction			right hand	right hand		1	P
	— Lay I diam	ength/conductor eter	times	Max.20		14		Р
1.2.2	Insulation			h-0-0-43	l Casa			W
	Average thickness		mm	Min.1.6		1.8		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 verdict. "/" means this item does not require testing.

Type and size 0.6/1kV Aerial 3×70+54				Reference.No CT2		3-02177	
CI.		Test Items	Unit	Requirements	Test Res	ults	Verdic
	— Minin	num thickness at any	mm ·	Min.1.34	1.66		P
1.2.3		ameter of the core	mm	12.3~13.0	12.9		P
1.3	Public ligh	nting core		The state of the s			
1.3.1	Conducto	r		1522,024 C.			
	— Cond	luctor material		Aluminium	Aluminu	m	P
	— Numl	ber of wires		7	7		Р
1.	— Diam	eter of conductor	mm	4.6~5.1	4.6		P
	— Lay o	lirection		Left hand	left hand	1	Р
1.3.2	Insulation						
	— Aver	age thickness	mm	Min.1.2	1.4		P
	<ul><li>Minir</li><li>point</li></ul>	num thickness at any	mm	Min.0.98	1.31		P
1.3.3	Overall di	ameter of the core	mm	7.0~7.8	7.4		Р
1.4	Laying-up	o of the cores					P
	— Lay p	oitch	cm	Max.100	78		Р
	— Lay o	directon	)	Phase cores and public core are laid- up around the neutral messenger core with right hand	Phase cores and plaid up around the messenger core hand direct	e neutral with right	P
		da estre rigida		Min to 5			
	Tensile st	rength of the		Mile St	506		17
-	— Phas	e cores	daN	Twin, N. St.	1073 1047	1116	N
-	<ul><li>Neutr</li></ul>	al conductor	daN	Min.1660	1679		P
3 1	Electrical	properties		evanestavata			
3.1	Conducto	r resistance at 20°C	ř				
-	- Phas	e cores	Ω/km	Max.0.443	0.421 0.418	0.419	P
	<ul><li>Neutr</li></ul>	ral core	Ω/km	Max.0.63	0.60		Р

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Page 4 of 4

					Page 4	of 4			
Тур	Type and size		I Bundled Cable 4.6+16 NFC		Reference.No		CT23-02177		
CI.	Test Items		Unit	Requirements	Test Result		ts	Verdict	
3.2	— Public lighting core  High voltage test on cores at  20°C (10kv AC, 30min)		Ω /km	Max.1.91	5	1.84		P	
	A bires	e cores		No	passed	passed	passed	Р	
	- Neutr	ral core		breakdown No breakdown		Passed		Р	
	- Public	c lighting core		No breakdown	=	passed		P	
3.2	phase con	rithstand test on es eak value 20kV, $\pm 5$	5	No breakdown	passed	passed	passed	P	
3.4	Insulation K <sub>i</sub> at 80°C	resistance constant		468					
	— Phase	e cores	MΩ • km	Min.1000	58700	52300	46800	Р	
	— Neutr	al core	MΩ • km	Min.1000		25700		Р	
	— Public	c lighting core	MΩ • km	Min.1000		89200		Р	
4	insulation	al properties of the before ageing	7 83					- I promise and	
4.1	Phase cor								
	— Tensi	le strength	MPa	Min.14.5	22.9	24.2	23.7	P	
	— Elong	ation at break	%	Min.200	610	630	620	Р	
4.2	Neutral co	re							
	— Tensii	le strength	MPa	Min.14.5		22.7		Р	
	— Elong	ation at break	%	Min.200		600		P	
4.3	Public light	ting core							
	— Tensil	e strength	MPa	Min.14.5		24.0		Р	
	— Elonga	ation at break	%	Min.200	10	630		Р	
			Foll	owing blank					

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