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报告编号  
Reference No



CT22-03241-3

中国认可  
国际互认  
检测  
TESTING  
CNAS L0207

# 检测报告

## Test Report

样品名称 Name of sample	All aluminium alloy conductors
样品型号 Type of sample	AAAC
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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扫描全能王 创建

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

Kind of test	Commission test	Reference No.	CT22-03241-3		
Name of sample	All aluminium alloy conductors				
Type and Size	AAAC 559.5MCM (Darien)	Date of test	2022-09-19~2022-11-21		
Consigner	Name	HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD			
	Address	Room 305, Building 2, No. 380 Fengxin Road, Hangzhou, China			
	Tel.	158 6927 4963	P.C.	/	Unit No. 057129
Manufacturer	Name	HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD			
	Address	Room 305, Building 2, No. 380 Fengxin Road, Hangzhou, China			
	Tel.	158 6927 4963	P.C.	/	Unit No. 057129
Delivering mode	Supplied by consigner	Sample state at receiving	Normal	Receiving date	2022-09-13
Test standard	ASTM B399/B399M-04 (Reapproved 2021) Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors				
Verdict standard	Same as test standard				
Conclusion	The items tested for the sample comply with the requirements of ASTM B399/B399M-04 (Reapproved 2021).				
Note	The consigner supplied name, type and size of the sample and is responsible for them.				
Tested by	Wang HongMei	Checked by	Wu Min	Approved by	Wang Xu
Date	2022.11.21	Date	2022.11.24	Date	2022.11.24



Type and size		AAAC 559.5MCM (Darien)		Reference No.		CT22-03241-3	
No.	Test Items	Unit	Requirements	Test Results	Verdict		
1	Number of Al alloy wires	No.	19	19	P		
2	Surface quality		The conductor shall be clean and free of imperfections not consistent with good commercial practice	Pass	P		
3	Lay						
3.1	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		
3.2	Lay ratio						
3.2.1	Inner layer		10~16	15.1	P		
3.2.2	Outer layer		10~16	14.0	P		
4	The properties of Al alloy wire(Stranded)						
4.1	Appearance		The wire shall be free of all imperfections not consistent with good commercial practice.	Pass	P		
4.2	Diameter	mm	$4.36 \pm 0.04$	4.35	P		
4.3	Tensile strength						
4.3.1	Average for a Lot	MPa	$\geq 299$ (315×0.95)	338	P		
4.3.2	Individual tests	MPa	$\geq 290$ (305×0.95)	334	P		

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		AAAC 559.5MCM (Darien)		Reference No.		CT22-03241-3	
No.	Test Items	Unit	Requirements	Test Results	Verdict		
4.4	DC resistivity at 20°C	Ω·mm <sup>2</sup> /m	≤0.032841	0.032250	P		
4.5	Bending(1d)		No fracture shall occur.	No fracture occurred.	P		
End of Report							

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.

