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中国认可
国际互认
检测
TESTING
CNAS L0207

报告编号
Reference No

CT21-03187

检测报告

Test Report

样品名称 Name of sample	All aluminium conductors
样品型号 Type of sample	AAC ASTM B231 Lupine
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




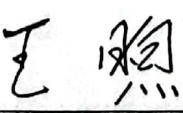
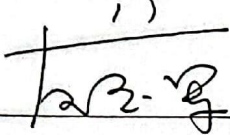
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Shanghai National Center of Testing and Inspection for Electric Cable and Wire Co., Ltd.
China National Centre of Testing and Inspection for Electric Cable and Wire
Test Report

Kind of test	Commission test			Reference No.	CT21-03187	
Name of sample	All aluminium conductors					
Type and Size	AAC ASTM B231 Lupine (91×4.21mm)			Date of test	2021-07-22 ~ 2021-09-09	
Consigner	Name HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD					
	Address Room B415, Future Technology Park, No.7 Long Tan Road, Hangzhou. CHINA					
	Tel.	15869274963	P.C.	/	Unit No.	057129
Manufacturer	Name HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD					
	Address Room B415, Future Technology Park, No.7 Long Tan Road, Hangzhou. CHINA					
	Tel.	15869274963	P.C.	/	Unit No.	057129
Delivering mode	Supplied by consigner	Sample state at receiving	Normal	Receiving date	2021-07-16	
Test standard	ASTM B231/B231M-16 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors					
Verdict standard	Same as test standard					
Conclusion	The items tested for the sample comply with the requirements of ASTM B231/B231M-16.					
Note	The consigner supplied name, type and size of the sample and is responsible for them.					
Tested by	Wu Min 	Checked by	Wang Xu 	Approved by	Fan Yujun 	
	Date 2021.9.9		Date 2021.09.09		Date 2021-09-09	



Type and size		AAC ASTM B231 Lupine (91×4.21mm)		Reference No.	CT21-03187	
No.	Test Items	Unit	Requirements	Test Results	Verdict	
1	Number of Al wires		91	91		
2	Surface quality		The conductor shall be free of all 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				P	
3.2.1	Inner layer		/	15.9	P	
3.2.2	Adjacent inner layer		/	14.3	P	
3.2.3	Middle layer		/	11.9	P	
3.2.4	Adjacent outer layer		8~16	11.3	P	
3.2.5	Outer layer		8~16	10.3	P	
4	The properties of Al wire (Stranded)					
4.1	Appearance		The wire shall be free of imperfections not consistent with good commercial practice.	Pass	P	
4.2	Diameter	mm	4.21±0.04	4.21	P	
4.3	Tensile strength					
4.3.1	Average for a Lot	MPa	≥157 (165×0.95)	181	P	

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

Type and size	AAC ASTM B231 Lupine (91×4.21mm)		Reference No.	CT21-03187	
No.	Test Items	Unit	Requirements	Test Results	Verdict
4.3.2	Individual tests	MPa	≥ 152 (160×0.95)	168	P
4.4	DC resistivity at 20°C				
4.4.1	Average for a Lot	$\Omega \cdot \text{mm}^2/\text{m}$	≤ 0.028172	0.028047	P
4.4.2	Individual tests	$\Omega \cdot \text{mm}^2/\text{m}$	≤ 0.028265	0.028179	P
4.5	Bending(looped around its own diameter with a mandrel)		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, "I" means this item does not require to the verdict.