



中国认可
国际互认
检测
TESTING
CNAS L0207

报告编号
Reference No

CT24-01049

检测报告

Test Report

样品名称
Name of sample Service Cable 2×25sq.mm Aluminum Stranded
Conductor(Covered)

样品型号
Type of sample BS-JKLV

委托方
Consigner Zhengzhou Jinshui Industry And Commerce Co., Ltd.

试验类型
Kind of test Type Test



上海国缆检测股份有限公司 检验检测专用章

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

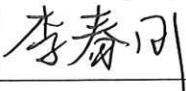


CHINA NATIONAL CENTRE OF TESTING AND INSPECTION
FOR ELECTRIC CABLE AND WIRE



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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

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Kind of test	Type Test	Reference No.	CT24-01049		
Name of sample	Service Cable 2×25sq.mm Aluminum Stranded Conductor(Covered)				
Type and Size	BS-JKLV-0.6/1 2×25	Date of test	2024-03-18 ~ 2024-04-08		
Consigner	Name	Zhengzhou Jinshui Industry And Commerce Co., Ltd.			
	Address	20/F, Unit 2, Building 1, Jinlanxijing Yuan, No.56 Shinan Road, High-Tech Industrial Development Zone, Zhengzhou, Henan, China			
	Tel.	0371-65059867	P.C.	450001	Unit No. 450214-1
Manufacturer	Name	Zhengzhou Jinshui Industry And Commerce Co., Ltd.			
	Address	20/F, Unit 2, Building 1, Jinlanxijing Yuan, No.56 Shinan Road, High-Tech Industrial Development Zone, Zhengzhou, Henan, China			
	Tel.	0371-65059867	P.C.	450001	Unit No. 450214-1
Delivering mode	Supplied by consigner	Sample state at receiving	Normal	Receiving date	2024-03-13
Test standard	Refer to IEC 60502-1:2021 Power cables with extruded insulation and their accessories for rated voltages from 1 kV(U _m =1.2 kV) up to 30 kV(U _m =36 kV) – Part 1:Cables for rated voltages of 1 kV (U _m =1.2kV) and 3 kV(U _m =3.6 kV)				
Verdict standard	Same as the test standard				
Conclusion	All items for the sample have been carried out according to IEC 60502-1:2021, and the sample is qualified for the requirements of IEC 60502-1:2021.				
Note	Name, type and size of the sample are provided by the consigner.				
Tested by	李春刚 Li Chungang 	Checked by	李娜 Li Na 	Approved by	肖继东 Xiao Jidong 
Date	2024.4.8	Date	2024.4.8	Date	2024.4.8

Type and size		BS-JKLV-0.6/1 2×25		Reference No.	CT24-01049	
No.	Test Items	Unit	Requirements	Test Results		Verdict
1	Inspected cores identification		/	red	black	N
1.1	Construction					
	Conductor					
	-conductor material		aluminium	aluminium		P
	-number of wires in conductor		min.6	7	7	P
1.2	Insulation					
	-average thickness	mm	min.1.2	1.2	1.3	P
	-minimum thickness	mm	min.0.98	1.19	1.27	P
1.3	Oversheath					
	-average thickness	mm	/	2.0	1.7	N
	-minimum thickness	mm	min.1.24	1.49	1.37	P
1.4	Overall dimensions (width×height)	mm	/	23.5×12.0		N
2	Marking					
	-marking on the surface of completed cable		Marking on oversheath shall contain at least an indication of origin (manufacturer's name or trademark), and marking shall be made by printing, embossing or indenting	Marking on oversheath is made by printing: ECG ELECTRIC SERVICE CABLE 0.6/1KV 2X25m ² ZHENGZHOU JINSHUI INDUSTRY AND COMMERCE CO., LTD 02/2024		P
3	Electrical properties					
3.1	Conductor resistance (20°C)	Ω/km	max.1.20	1.19	1.19	P
3.2	Insulation resistance measurement					
3.2.1	Volume resistivity					

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		BS-JKLV-0.6/1 2×25		Reference No.	CT24-01049	
No.	Test Items	Unit	Requirements	Test Results		Verdict
3.2.2	-20°C	Ω·cm	min.10 ¹³	1.6×10 ¹³	1.0×10 ¹³	P
	-70°C	Ω·cm	min.10 ¹⁰	2.3×10 ¹¹	1.6×10 ¹¹	P
	Insulation resistance constant					
	-20°C	MΩ·km	min.36.7	57.1	37.4	P
3.3	-70°C	MΩ·km	min.0.037	0.84	0.59	P
	Voltage test for 4h (4U ₀)		no breakdown	passed	passed	P
4	Physical and mechanical properties of insulation					
4.1	Without ageing					
	-tensile strength	N/mm ²	min.12.5	21.2	20.8	P
	-elongation at break	%	min.150	230	220	P
4.2	After ageing in air oven (100°C,168h)					
	-tensile strength	N/mm ²	min.12.5	20.3	20.3	P
	-elongation at break	%	min.150	220	210	P
	-variation of tensile strength	%	max.±25	-4	-2	P
	-variation of elongation at break	%	max.±25	-4	-5	P
4.3	After additional ageing test on pieces of completed cable (80°C,168h)					
	-variation of tensile strength	%	max.±25	-1	-0.5	P
	-variation of elongation at break	%	max.±25	0	0	P
4.4	Pressure test at high temperature (80°C,4h)					
	-maximum indentation value	%	max.50	17	17	P
4.5	Heat shock test(150°C,1h)		no cracks	no cracks	no cracks	P
4.6	Bending at low temperature (-15°C)		no cracks	no cracks	no cracks	P
4.7	Water absorption (1.0kV,70°C,240h)		no breakdown	passed	passed	P

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Type and size		BS-JKLV-0.6/1 2×25		Reference No.	CT24-01049
No.	Test Items	Unit	Requirements	Test Results	Verdict
5	Physical and mechanical properties of oversheath				
5.1	Without ageing				
	-tensile strength	N/mm ²	min.10.0	22.1	P
	-elongation at break	%	min.300	820	P
5.2	After ageing in air oven (100°C,240h)				
	-tensile strength	N/mm ²	/	20.2	N
	-elongation at break	%	min.300	760	P
	-variation of tensile strength	%	/	-9	N
	-variation of elongation at break	%	/	-7	N
5.3	After additional ageing test on pieces of completed cable (80°C,168h)				
	-variation of tensile strength	%	/	-5	N
	-variation of elongation at break	%	/	-5	N
5.4	Shrinkage test (80°C, 5h, 5 cycles)				
	-shrinkage	%	max.3	0.2	P
5.5	Carbon black content	%	2.5±0.5	2.7	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.