



CAICT

Report No.:B22X70139



中国认可
国际互认
检测
TESTING
CNAS L0570

Test Report

Product Name 450/750V LSZH Insulated,Non-sheathed Power Cables

Model Number FTX100 07Z-K 1×6

Applicant Caledonian Cables Limited

Manufacturer Caledonian Cables Limited

Test Type Commission Test

China Telecommunication Technology Labs
China Academy of Information and Communications Technology





PRECAUTIONS

1. The test report without “the special inspection seal” is invalid.
2. The printed test report should be stamped by “the Paging Seal”.
3. The duplications of the test report without “the special inspection seal” or “the official seal of inspection institution” are invalid.
4. The test report without the signature of “Approver”, “Reviewer” and “Inspector” is invalid.
5. The test report is invalid if there is any alter.
6. The test report is only responsible for the provided sample and test items. The information of the sample (e.g. *Deliverer, Origin, Manufacture*, etc.) is provided by the client and the lab is not responsible for its authenticity.
7. For benefits of the client, if there are any questions, please contact us in 15 days since the test report is delivered.
8. Any partial copy of the test report without written approval of the lab is forbidden.
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Beijing Mobile Communication Equipment Quality Supervision and Inspection Center of Information Industry,
Beijing Telephone Exchange Equipment Quality Supervision and Inspection Center of Information Industry,
Post and Telecommunication Industry Product Quality Supervision and Inspection Center of Information Industry,
Communication and Electromagnetic Compatibility Quality Supervision and Inspection Center of Information Industry,
Quality Supervision and Inspection Center for Communication Equipment Anti-Seismic Performance of Information Industry,
Communication Software Evaluation Center of Information Industry.

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Test Report

Product Name	450/750V LSZH Insulated, Non-sheathed Power Cables	Model No.	FTX100 07Z-K 1×6
Applicant Name	Caledonian Cables Limited	Production No. / Production Date	_____
Manufacturer	Caledonian Cables Limited	Sample Received Date	January 17, 2022
Sample Received Date	No.28, Xijiekou Wai Street, Beijing, China	Sample Submitter	Mia Yang
Quantity of Sample(s)	300m		
Test Type	Commission Test	Test Item	11
Original State of Sample(s)	The sample is intact and meets the requirement of the test.		
Test Method(s)	BS EN 50399:2011+A1:2016 Common test methods for cables under fire conditions—Heat release and smoke production measurement on cables during flame spread test—Test apparatus, procedures, results IEC 61034-2:2019 Measurement of smoke density of cables burning under defined conditions—Part 2: Test procedure and requirements IEC 60754-2:2011 Test on gases evolved during combustion of materials from cables- Part 2: Determination of acidity (by pH measurement) and conductivity IEC 60332-1-2:2004+A1:2015 Tests on electric and optical fiber cables under fire conditions- Part 1-2: Test for vertical flame propagation for a single insulated wire or cable- Procedure for 1kW pre-mixed flame BS EN 13501-6:2018 Fire classification of construction products and building elements Part 6: Classification using data from reaction to fire tests on power, control and communication cables		
Remark(s)	Based on the performed tests on the submitted sample of product 450/750V LSZH Insulated, Non-sheathed Power Cables (FTX100 07Z-K 1×6), the results are as follows: A total of 11 performance and technical indicators were tested in accordance with the method of BS EN 50399:2011+A1:2016, IEC 61034-2:2019, IEC 60754-2:2011, IEC 60332-1-2:2004+A1:2015, and the results were in line with the requirements of BS EN 13501-6:2018.		


 Approved by: 

 Reviewed by: 

 Tested by: 

Test Results

No.	Test item	Units	Required value	Results	Conclusion
1	FS	m	≤ 1.5	1.4	Passed
2	THR1200s	MJ	≤ 15	13	Passed
3	Peak HRR	kW	≤ 30	29	Passed
4	FIGRA	W/s	≤ 150	77	Passed
5	Test for vertical flame propagation	mm	The distance from the lower edge of the top support to the upper onset of charring is greater than 50 mm.	385	Passed
			The distance from the lower edge of the top bracket to the lower focus is less than 540 mm	476	
6	TSP1200s	m ²	≤ 50	41	Passed
7	Peak SPR	m ² /s	≤ 0.25	0.14	Passed
8	Smoke production	/	$\geq 80\%$	92%	Passed
9	Flaming droplets/particles	---	No Flaming droplets/particles persisting within 1200s	Meet the requirement	Passed
10	Conductivity	μ S/mm	< 2.5	0.6	Passed
11	pH	---	> 4.3	5.6	Passed
Blank below					

Picture of samples



FTX100 07Z-K 1×6

450/750V LSZH Insulated, Non-sheathed Power Cables

Main Test Instruments and Equipment

No.	Name of equipment	Type	Serial No.	Effective calibration date	Remarks
1	Single vertical combustion tester	DR-1	199	January 7,2023	----
2	Steel ruler	600m	01	December 26, 2022	----
3	Bunched wire and cable combustion tester	PX-02-018	16A064	October 26,2022	----
4	Smoke density test system	PX-02-007	16A065	June 13,2022	----
5	Steel tape	7.5m	01	April 11,2022	----
6	Halogen gas release determination device	SL-1	0591	May 28,2022	----
7	Conductivity meter	DDS-307	610511080047	May 28,2022	----
8	pH meter	PHS-2F	600311090038	March 24,2022	----

Test description:

- 1.The subcontracting inspection organization involved in this test: none.
- 2.Other matters needing explanation: none.
- 3.Disclaimer:the samples in this report are provided by the customer and the test results are only applicable to the samples received.

Test Site	No.28, Xijiekou Wai Street, Beijing,China Cuihu Cloud Center, No.1 Gaolizhang Road,Wenquan Town, Haidian District, Beijing	
Testing Period	March 8,2022~March 14, 2022	
Test Condition	Temperature: (21~23)°C	Relative Humidity: (33~40)%

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