



中国认可
国际互认
检测
TESTING
CNAS L6069



Test Report


Report No. TC.23.05.002032

Date of Issue 05/15/2023

Applicant: Caledonian Cables Limited

Applicant address: 1/F., CMA Building, 64-66 Connaught Road Central, Hong Kong

Description of the test subject:

Sample	Description	Photo
001	<p>Sample Description: COAXIAL RF 1/2" 50 Ω</p> <p>Style No.: COAXIAL RF 1/2" 50 Ω</p> <p>Manufacturer: Caledonian Cables Limited</p>	

Receipt Date of Sample: 05/06/2023

Date of Testing: From 05/06/2023 to 05/10/2023

Sample submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

Test Items			Conclusion
No.	Items	Standard	
1	Vertical flame spread of vertically-mounted bunched wires or cables	IEC 60332-3-22:2018	Pass
2	Single flame propagation	IEC 60332-1-2:2004+A1:2015	Pass

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Laboratory:
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Test Results

1. IEC 60332-3-22:2018 Tests on electric and optical fibre cables under fire conditions— Part 3-22:Test for vertical flame spread of vertically-mounted bunched wires or cables—Category A

1.1 Sample details

Length of test sample (m)	3.5
Cable diameter (mm)	15.5
Conductor diameter (mm)	5.0
Non-metallic volume per metre of test sample (L)	7
Number of cores	1
Range of conductor cross-sections (mm ²)	≤35
Number of strands in the bundle	1
Number of bundles	51
Number of layers	3
Number of burners	1
Positioning of test pieces	Touching
Flame application time (min)	40

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	20±10	50±20	≥16

1.2 Test results

Measurements/ observation	Result
The extent of damage(m)	1.0

Requirement:

The maximum extent of the charred portion measured on the sample shall not have reached a height exceeding 2.5m above the bottom edge of the burner.

Conclusion: Pass

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2. IEC 60332-1-2:2004+A1:2015 Tests on electric and optical fibre cables under fire conditions- Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame

2.1 Sample details

Length of test sample (mm)	600
Cable diameter (mm)	15.5
Conductor diameter (mm)	5.0
Core	1

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±5	50±20	≥16

2.2 Test results

Measurements/ observation	1 st Test
The distance between the lower edge of the top support and the onset of charring (mm)	430
The distance between the lower edge of the top support and the charring downwards (mm)	500

Note: If a failure is recorded, two more tests shall be carried out. If both tests result in passes, the single insulated conductor or cable shall be deemed to have passed the test.

Requirement:

- 1) The distance between the lower edge of the top support and the onset of charring is greater than 50 mm.
- 2) Charring extends downwards to a point less than 540 mm from the lower edge of the top support.

Conclusion: Pass

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Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential smoke and toxicity hazard of the product in use. Test results are just for internal reference.

TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.

Drafted by:

Approved by:

Jinqiang Zhou

Wayne Wang

-End of Report-

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