



Report No. TC.19.07.004943

Date of Issue 07/30/2019

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>Name: Fire Resistant Electric Cables</p> <p>Style No: FFX400 1mRZ1MZ1-R (N2XRH FE 180/E90) 5×70mm²</p> <p>Manufacturer: Caledonian (shandong) Cables Limited</p>	 

Receipt Date of Sample: 07/17/2019

Date of Testing: From 07/17/2019 to 07/30/2019

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

Conclusion:

Test Items			Conclusion
No.	Items	Standard	
1	Method for assessment of fire integrity of large diameter power cables for use as components for smoke and heat control systems and certain other active fire safety systems	BS 8491:2008(R2015)	Pass

Note: (1) General Terms & Conditions as mentioned overleaf, (2) The results relate only to the items tested, (3) The test report shall not be reproduced except in full without the written approval of the company. (4) Samples are tested as received.

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Test Results

1. BS 8491:2008(R2015) Method for assessment of fire integrity of large diameter power cables for use as components for smoke and heat control systems and certain other active fire safety systems

1.1 Sample details

Specimen size	1.5m
Specimen Diameter	About <u>48.2</u> mm
Number of cores	5
Minimum bending radius	6D
Actual bending radius	6D
Voltage	1000V
Test duration	120min
Application of impact	At 10min intervals
Water drenching phase	Five minutes before the end of the test apply a burst of water of 5 s duration, sixty seconds intervals.
Atmosphere condition	10°C-40°C

1.2 Mounting

Fixings type	U-bolts, P-clips
Mounting	Use the U-bolts to attach the test sample to the upper horizontal elements of the test ladder and use the P-clips to attach the test specimen to the central vertical elements of the test ladder.

Remark: all clips and bolts shall be earthed.

1.3 Test Result

Sample	1 st
Phenomenon	
Fuses ruptures, lamps is extinguished (Y/N)	N

Requirement: If, when the cable sample is tested, none of the fuses ruptures and none of the lamps is extinguished during the period of the test the cable shall be deemed to have passed the test.

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.

Changzhou Jinbiao Railway Transportation Technical Service Co., Ltd.

Drafted by:

Lynn liu

Approved by:

Shen hui

-End of Report-

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