

BRE Global Test Report

Testing of Prysmian '4x25mm² FP600S' cable with BICON galvanised cast iron claw cleat ref 370CG06 to BS 8491:2008

Prepared for: Prysmian Cables & Systems Limited

Date: 28 July 2016

Report Number: P104596-1000 Issue: 2

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Testing of Prysmian '4x25mm² FP600S' cable with **BICON** galvanised cast iron claw cleat ref **370CG06** to Report Number: P104596-1000: Issue 2 BS 8491:2008



1 Introduction

The requirement of the work was to determine the performance of a cable when tested to BS 8491:2008 [1]

This report is issue 2 of BRE report P1004596-1000 Issue 1 dated 04 May 2016. Additional test results have been included in the report including the test time. BRE report P1004596-1000 Issue 1 dated 04 May 2016 has been withdrawn with effect from the date of this report.



2 Cable Details

The '4x25mm² FP 600S' cable comprised the following components:

- Conductors Cu Stranded
- Mica Tape
- Insulation Blue, Black, Grey & Brown
- Filler
- Fire Barrier Tape
- Clear Tape
- Bedding
- SWA
- Fire Barrier Tape
- Clear Tape
- Sheath Black

The outer sheath had the following printed markings on 2 sides:

'PRYSMIAN (B) FP600S LSOH LPCB 077N/01 FIRE RESISTANCE TO BS 8491 120 MIN ELECTRIC CABLE 600/1000V BASEC BS 7846-F120'

The cables were submitted by the client. BRE Global was not involved in the sample selection.

Samples were received on 17 August 2015.



3 Test results

3.1 BS 8491:2008

Cable Type	Temperature (°C)	Test Time	Test voltage (Uo/U)	Comments	Result
4x25mm²	846	120min	600/1000V	No fuses ruptured or lamps extinguished *	Pass

^{*}Sample was mounted and tested using BICON galvanised cast iron claw cleats, ref 370CG06

4 References

1. BS 8491:2008 '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' British Standards Institution, London 2008.

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