

BRE Global Test Report

Testing of Prysmian '4x240mm² FP600S' cable with BICON two bolt galvanised cast iron cleat ref 370CG12 to BS 8491:2008

Prepared for: Prysmian Cables & Systems Limited

Date: 28 July 2016

Report Number: P104596-1001 Issue: 2

BRE Global Ltd
Watford, Herts
WD25 9XX

Customer Services 0333 321 8811

From outside the UK:
T + 44 (0) 1923 664000
F + 44 (0) 1923 664010
E enquiries@bre.co.uk
www.bre.co.uk

Prepared for:
Prysmian Cables & Systems Limited
Chickenhall Lane
Bishopstoke
Eastleigh
Hampshire
SO50 6YU





Prepared by

Name Michael Campbell

Position Technician

Signature

A handwritten signature in black ink, appearing to read 'Michael Campbell', is written over a horizontal line.

Authorised by

Name Ewan Mac Donald

Position Cables Testing Manager

Signature

A handwritten signature in black ink, appearing to read 'Ewan Mac Donald', is written over a horizontal line.

This report is made on behalf of BRE Global and may only be distributed in its entirety, without amendment, and with attribution to BRE Global Ltd to the extent permitted by the terms and conditions of the contract. Test results relate only to the specimens tested. BRE Global has no responsibility for the design, materials, workmanship or performance of the product or specimens tested. This report does not constitute an approval, certification or endorsement of the product tested and no such claims should be made on websites, marketing materials, etc. Any reference to the results contained in this report should be accompanied by a copy of the full report, or a link to a copy of the full report.

BRE Global's liability in respect of this report and reliance thereupon shall be as per the terms and conditions of contract with the client and BRE Global shall have no liability to third parties to the extent permitted in law.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.



Table of Contents

1	Introduction	3
2	Cable Details	4
3	Test results	5
3.1	BS 8491:2008	5
4	References	5



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 P1004596-1001 Issue 1 dated 04 May 2016. Additional test results have been included in the report including the test time. BRE report P1004596-1001 Issue 1 dated 04 May 2016 has been withdrawn with effect from the date of this report.



2 Cable Details

The '4x240mm² FP 600S' cable comprised the following components:

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

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

'PRYSMIAN(W)FP600LSOHLPCB517C/01FIRERESISTANCETOBS8491120MINELECTRIC CABLE
600/1000V BASEC BS 7846-F120 2014 CE'

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

Samples were received on 07 July 2015.



3 Test results

3.1 BS 8491:2008

Cable Type	Temperature (°C)	Test Time	Test voltage (U _o /U)	Comments	Result
4x240mm ²	846	120min	600/1000V	No fuses ruptured or lamps extinguished *	Pass

*Sample was mounted and tested using BICON two bolt galvanised cast iron cleats, ref 370CG12

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.