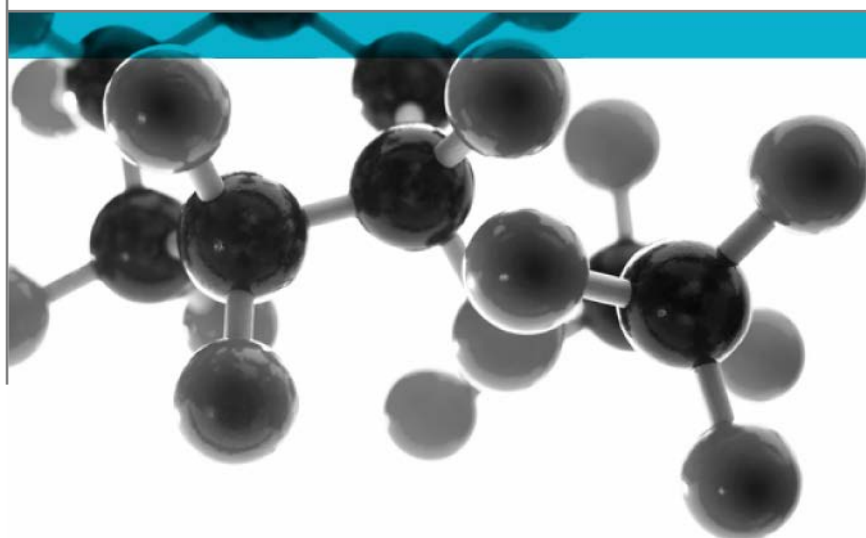


Review of Fire Test Report



A Report To: Berica Cavi S.p.A.

Document Reference: 371405

Date: 4th October 2016

Issue No.: 1

Page 1

**Testing
Advising
Assuring**

Executive Summary

Objective

To review and extend the validity period of Exova Warringtonfire Test Report No: 177606 which details the fire performance of the following product when tested in accordance with BS EN 50200: 2006.

Generic Description	Product reference	Thickness / c.s.a.	Weight per unit length
Cable	"Eurosafte FE 180"	9.3mm	77.52kg/km
Individual components used to manufacture composite:			
Conductors	"Solid Plain Annealed Copper Wire"	1.5mm ²	13.52kg/km
Insulation	"Special Silicone Rubber"	0.8mm	22.6kg/km
Drain wire	"Solid Tinned Copper Wire"	0.28mm ²	2.5kg/km
Plastic tape	"Polyester Foil"	25µm	Unwilling to provide
Foil tape	"Aluminium / Polyester Laminate Tape"	25µm	Unwilling to provide
Outer sheath	"Special Halogen Free LSZH"	1mm	33.32kg/km
Please see pages 4 & 5 of this test report for the full description of the product tested			

Test Sponsor

Berica Cavi S.p.A., Via della Meccanica, 2, 36040 Meledo di Sarego (VI), Italy.

Conclusion

With respect to test report WF No. 177606, its contents shall remain valid until 4th November 2018.

This review should be read in conjunction with test report WF No. 177606.

Date of Test

5th & 6th November 2008

Signatories


Responsible Officer C. Meachin * Technical Officer


Authorised S. Deeming * Business Unit Head

* For and on behalf of **Exova Warringtonfire**.

Report Issued: 4th October 2016

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Author: C. Meachin

Issue Date:

4th October 2016

Client:

Berica Cavi S.p.A.

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Test Details

Introduction

Test report WF No. 177606 relates to a test performed in accordance with the procedures defined in BS EN 50200: 2006, "Method of test for determining the resistance to fire of unprotected small cables for use in emergency circuits".

Product reference		"Eurosafte FE 180"
Cable marking		"EUROSAFE FE 180 2G1.5 SCR. FIRE RESISTANT BS6387 CWZ, EN 50200 PH 120, EN 60332-1-2, EN 61034-2, FIPEC(EN)50339-2-1 CE 09/08"
Cable function		Fire system connections
Number of cores x core size		2 x 1.5mm ²
Voltage rating		300/500V
Overall diameter		9.3mm (stated by sponsor) 8.0mm (determined by Exova Warringtonfire)
Overall weight per unit length		77.52kg/km (stated by sponsor)
Conductors	Product reference	"Solid Plain Annealed Copper Wire"
	Generic type	Solid copper wire
	Name of manufacturer	See Note 1 below
	Cross sectional area	1.5mm ²
	Weight per unit length	13.52kg/km
Insulation	Product reference	"Special Silicone Rubber"
	Generic type	Silicone rubber
	Name of manufacturer	FTC – Fabbrica Trentina Conduttori Srl
	Colour	"Blue" and "Brown"
	Thickness	0.8mm
	Weight per unit length	22.6kg/km
Drain wire	Flame retardant details	See Note 1 below
	Product reference	"Solid Tinned Copper Wire"
	Generic type	Solid tinned copper wire
	Name of manufacturer	See Note 1 below
	Cross sectional area	0.28mm ²
	Weight per unit length	2.5kg/km
Plastic tape (surrounding conductors)	Product reference	"Polyester Foil"
	Generic type	Polyester tape
	Name of manufacturer	See Note 1 below
	Colour	"Neutral"
	Thickness	25µm
	Density / weight per unit length	See Note 1 below
Flame retardant details		See Note 1 below

Continued on next page

Foil tape (surrounding conductors and plastic tape)	Product reference	"Aluminium / Polyester Laminate Tape"
	Generic type	Aluminium / polyester
	Name of manufacturer	See Note 1 below
	Colour	"Blue / Silver"
	Thickness	25µm
	Density / weight per unit length	See Note 1 below
	Flame retardant details	See Note 1 below
Outer sheath	Product reference	"Special Halogen Free LSZH"
	Generic type	Low smoke zero halogen
		See Note 1 below
	Name of manufacturer	FTC – Fabbrica Trentina Conduttori Srl
	Colour	"Red"
	Thickness	1mm
	Weight per unit length	33.32kg/km
Brief description of manufacturing process	Flame retardant details	See Note 1 below
	The conductor wires are insulated by extrusion of a continuous silicone rubber layer, which has been high temperature cross-linked. The cores are then twisted together and shielded. Finally, the sheathing is applied by a semi-compression extrusion process.	

Note 1. The sponsor of the test was unwilling to provide this or further information.

Test Results

Test report WF No. 177606 contains the following results:

When tested in accordance with BS EN 50200: 2006 in relation to the requirements for PH120 classification, the cable meets the criteria for resistance to fire with mechanical shock.

**Confirmation
Specification**

of Subsequent to the issue of the original test report, a representative of the sponsor of the test has stated that the sponsor has changed the name of the company. The correct name of the company is now Berica Cavi S.p.A. The new company name is referred to in this review report.

It has been confirmed in writing by Berica Cavi S.p.A. that there have been no changes to the product description contained within test report WF No. 177606 and that the product which is currently being manufactured is identical in every respect to the specimens which were tested.

It has also been confirmed in writing that no further fire testing of the previously fire tested specification has been performed since the issue of the test report, and no other individual or organisation has been asked to provide a technical review of the reports.

Conclusions

The procedures adopted for the original test (BS EN 50200: 2006) have been re-examined and are identical in all respects to those currently in use (BS EN 50200: 2015), therefore, with respect to test report WF No. 177606, its contents shall remain valid until 4th November 2018.

This review should be read in conjunction with test report WF No. 177606.

Validity

This review is based on information used in the original test report. No other information or data has been submitted by Berica Cavi S.p.A., which could affect this review.

Revision History

Issue No :	Issue Date:
Revised By:	Approved By:
Reason for Revision:	

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