

A Brand of Prysmian Group

FP100® BS 8592

Fire Resistant Single Core Cable. 450/750 V





Prysmian FP100® BS 8592 is the original fire resistant low voltage single core cable for use in steel conduits

KEY APPLICATIONS

FP100® BS 8592 is ideally suited to drawing into conduit installations that provide adequate mechanical protection and it forms the key part of a wiring system for evacuation and fire fighting applications.

Green/Yellow is also suitable as a separate earth.

FEATURES AND BENEFITS

• Ideal for rewiring existing steel conduit and upgrade to a fire resistant system or where the added mechanical protection or flexibility of a steel conduit or suitable trunking system is required

- Tough robust insulation prevents damage during installation
- Low smoke and corrosive gas emissions Low Smoke, Zero Halogen (LSOH®)

STANDARDS



BS 8592 IEC 60331-3 BS EN 50200 - PH120 BS 8434-2 BS EN 60332-1-2 BS EN 61034-2 BS EN 60754-1 BS EN 60228

CONSTRUCTION

Conductor material Conductor surface Core insulation material Construction Standard Fire Resistant Test Fire Resistant Test - Flame & Shock - 120 Minutes Fire Resistant Test - Flame, Shock & Water - 120 Minutes Flame Propagation - Single Cable Smoke emission Corrosive and acid gas Conductors

Copper Bare Mica + polymer



A Brand of Prysmian Group

APPLICATIONS PROPERTIES

Nominal voltage U0 [V]	450
Nominal voltage U [V]	750
Flame retardant	In accordance with BS EN 60332-1-2
Halogen free	Yes
Low smoke	Yes
Max. conductor temperature [°C]	90
Min. Operation temperature [°C]	-25
Min. Installation temperature [°C]	0
Max. Installation temperature [°C]	80
Bending radius (rule)	6D

COLOURS

A range of insulation colours are available, including green/yellow

CURRENT RATINGS

Refer to table 4E1 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature

CONTACT INFORMATION

Prysmian Cables & Systems Limited, Chickenhall Lane, Eastleigh, Hampshire, SO50 6YU, United Kingdom uk.prysmiangroup.com

Copyright Prysmian Group - 2021

You may not copy, reprint or reproduce in any form the content, either wholly or in part, of this Datasheet, without the written permission of the copyright owner.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group : any modification or alteration afterwards of product may give different result. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend the information within this Datasheet without prior notice. This Datasheet may include inaccuracies, omissions of content and of information and is not contractually valid unless specifically authorised by Prysmian Group.



A Brand of Prysmian Group

TECHNICAL DATA

Nominal cross section conductor [mm²]	Conductor category	Nominal thickness insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
1.5	Class 2 = stranded	0.7	3.6	26	12.1
2.5	Class 2 = stranded	0.8	4.2	39	7.41
4	Class 2 = stranded	0.8	4.7	53	4.61
6	Class 2 = stranded	0.8	5.3	76	3.08
10	Class 2 = stranded	1	6.6	125	1.83
16	Class 2 = stranded	1	7.2	180	1.15
25	Class 2 = stranded	1.2	9	280	0.727
35	Class 2 = stranded	1.2	10.5	380	0.524
50	Class 2 = stranded	1.4	12.2	520	0.387
70	Class 2 = stranded	1.4	13.4	710	0.268





Certificate No: 017/004/343

Issue No: 2

Certificate of Product Approval

Prysmian Cables & Systems Ltd

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Factory: Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

> Standard: BS 8592:2016

Description: Single core non-sheathed fire resistant cables with thermosetting insulation and having low emission of smoke and corrosive gases when affected by fire

Details: These cables conform to BS 8592, and by reference, conform to the appropriate requirements of BS EN 60228, BS EN 60332-1-2, BS EN61034-2, BS EN 60754-1 and IEC 60331-

3. Additionally tested to BS 8434-2:2003+A2:2009 and BS EN 50200:2015 PH120 (tests

conducted in steel conduit). These cables have a rated voltage of 450/750V

Materials: Insulation El 5, Sheath None

> Brand Name: FP100

Origin Mark: PRYSMIAN (B) OR (B) PRYSMIAN

Permissible Approval Marks:



BASEC name



BASEC roundel

Signed for and on behalf of BASEC Group Ltd

Krean D'Krin Date: 06/07/2023

Date of original issue: 04/11/2020

Check BASEC website to verify validity. Page 1 of 2

BASEC Group Ltd, Presley House, Presley Way, Milton Keynes, MK8 0ES, UK Registered in England No. 13950143, Tel: +44 (0)1908 267300 Email: mail@basec.org.uk Web: www.basec.org.uk

BSF079 Issue 5 (20-03-2023)



Expiry date: 11/08/2026





Certificate No: 017/004/343

Issue No: 2

Type(s) and Range(s) of Approval

Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size - sqmm
2	N/A	Class 2	1	1.5	70

Signed for and on behalf of BASEC Group Ltd

Kieran O'Krin Date: 06/07/2023

Date of original issue: 04/11/2020 Check BASEC website to verify validity.

Page 2 of 2 BASEC Group Ltd, Presley House, Presley Way, Milton Keynes, MK8 0ES, UK Registered in England No.13950143, Tel: +44 (0)1908 267300 Email: mail@basec.org.uk Web: www.basec.org.uk

BSF079 Issue 5 (20-03-2023)



Expiry date: 11/08/2026



www.redbooklive.com

CERT

Certificate of Product Approval

Certificate Number: 077p

Issue: 04

PRYSMIAN CABLE & SYSTEMS LIMITED

Chickenhall Lane Bishopstoke Eastleigh Hants SO50 6YU United Kingdom

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below:

Product(s)

1

2

Cable Types as listed below: FP100 LSOH See Certificate Appendix for details

Standard(s) (see Appendix for details)

BS 6387:2013 (Category CWZ) EN 50267-2-1:1999 EN 61034-2:2005 IEC 60331-21:1999

ΡRΕ

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Signed for LPCB	David Hoare Certification Scheme Manager	16 September 2014 Date of Issue	13 May 2013 Date of First issue
	This certificate and appendix remain subject to terms and conditions (for To check the validity of this certificat www.redbooklive.com/check, scan tl LPCB is part of BRE Global Ltd, Garst T: +44 (0)333 321 8811 F: +44 (0)1	details visit <u>www.redbooklive.com/te</u> e and appendix please visit he QR tag or contact us. on, Watford, WD25 9XX	
BF1345 Rev. 0.2	Page 1 o	f 3	© BRE Global Ltd, 2014

LPCB°

Appendix to Certificate No: 077p **PRYSMIAN CABLE & SYSTEMS LIMITED**

LPCB Ref. Product name FP100 LSOH 077p/01 Nominal csa of IEC 60331-21 Core Construction BS 6387 EN 50267-2-1 EN 61034-2 conductor (mm²) One⁽¹⁾ C,W,Z^(2,3) Complies⁽⁴⁾ 1.5 <0.5% HCI >60% 2.5 One⁽¹⁾ C,W,Z^(2,3) Complies⁽⁴⁾ <0.5% HCI >60% 4.0 One⁽¹⁾ C,W,Z^(2,3) <0.5% HCI >60% Complies⁽⁴⁾ 6.0 One⁽¹⁾ C,W,Z^(2,3) <0.5% HCI Complies⁽⁴⁾ >60% One⁽¹⁾ C,W,Z^(2,3) <0.5% HCI Complies⁽⁴⁾ 10 >60%

Uo/U 600/1000 V

Notes:

- 1. Stranded conductor only.
- 2. Where a single cable is fitted in a conduit, only phase to earth voltage was applied.
- 3. To satisfy the requirements of BS 6387:2013, for Categories C,W,Z testing was conducted using a 20mm stainless steel conduit as the other metallic element.
- 4. The FP100 LSOH cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 950°C for a duration of 90mins + 15mins cool down, at a voltage rating of 600V.

Cross-Listed products and alternative branding are detailed on page 3.

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

buretter.	David Hoare	16 September 2014	13 May 201	
Signed for LPCB	Certification Scheme Manager	Date of Issue	Date of First iss	ue
	This certificate and appendix remain t subject to terms and conditions (for d			
	To check the validity of this certificate <u>www.redbooklive.com/check</u> , scan the			bco
	LPCB is part of BRE Global Ltd, Garsto T: +44 (0)333 321 8811 F: +44 (0)19			ΠR
BF1345 Rev. 0.2	Page 2 of 3		© BRE	Global Ltd, 2014

Issue: 04

Page 2 of 3



LPCB Ref No.

077p/01

Appendix to Certificate No: 077p PRYSMIAN CABLE & SYSTEMS LIMITED

FP100 LSOH

1.5mm² - 10mm²

Model No.

Alternative Model No.

FT SIFER 950i OHLS

1.5mm² - 10mm²

Labelled

Draka UK Ltd

Issue: 04

Distributors Cert/Ref No.

1134g/01

This Certificate is maintained and held in force through regular surveillance activities and subject to the	
corresponding ISO 9001 Certificate being maintained.	



TO WHOM IT MAY CONCERN

For FP100 077p issue we received the response letter by FSD, we could use on-line certificate to convince FSD officer.

http://www.redbooklive.com/search/displaycompany.jsp?sectiontype=1& companyid=352&productgroupid=3074§ionid=24&searchgrouptypei d=13&searchgroupid=0&id=677

	3	肖	防	庱	Ì	
牌	照	及	審	批	緫	區
	通	風	系	統	課	
香港	九 龍	尖沙	小咀東	〔康祖	三道 1	號
	消	防總	部大	厦 5	樓	
本處檔號 C	Our Re	f.:	FP(L	C) 3	7/21	

FP(LC) 317/21

2367 3206

2733 1557



FIRE SERVICES DEPARTMENT LICENSING & CERTIFICATION COMMAND

Ventilation Division 5/F, Fire Services Headquarters Building, No. 1 Hong Chong Road, Tsim Sha Tsui East, Kowloon, Hong Kong

18 April 2018

Prysmian Hong Kong Holding Limited, Unit 1511-12, 15/F., Lu Plaza, 2 Wing Yip Street, Kwun Tong, Kowloon, Hong Kong.

(Attn.: Mr. Stephen LAM)

Dear Sir,

來函檔號

圖文傳真

話

雷

Your Ref .:

Fax:

Tel. No .:

"Prysmian" FP100 LSOH Fire Resistant Cables

I refer to your letter dated 20.12.2017 enclosing catalogues and test certificates and the supplementary information submitted on 3.4.2018 with respect to the captioned products for the assessment of this Department.

According to FSD Circular Letter No. 1/2007, this Department is not going to assess and comment on the captioned products subject to their valid LPCB listing in compliance with BS 6387:2013 as listed in the LPCB Redbook and their correct cable markings.

Yours faithfully,

(LEUNG KAM-man) for Director of Fire Services

KML/chl FileCode: prysmain fp100 bs 6387 20180418.doc





Reference No. : PHK- 23-001-004

Date : Mar 13th 2023

To Whom it may concern

Subject: BS8592 of Single Core fire resistant cable

Dear Sir,

We herewith confirm that our Prysmian FP100 and Draka Sifer 950i single Cables supplied to the above project, are manufactured by our UK factory.

We also confirm that Prysmian FP100 and Sifer 950i are complied with BS 8592:2016 which is an exclusive standard for single core fire resistant conduit wires, associated to BS 5266:2016 for the CoP of HKFSD. Such BS 8592 qualification is accredited by BASEC, in addition to previous LPCB for BS 6387 CWZ which the certificates are online for public access.

		BASEC certificate (issued from 2020)	LPCB certificate (issued from 2014)
Brand	Designation	BS 8592	BS 6387 CWZ
Prysmian	FP100	017/004/343	077c, 077p
Draka	Sifer 950i	189/001/080	1134c, 1134g

Below is new printing legend of FP100 and Draka Sifer 950i for the BASEC range:

PRYSMIAN (B) FP100 ELECTRIC CABLE 450/750V BS8592 *a* *yy* BASEC

DRAKA (B) FT SIFER 950i ELECTRIC CABLE 450/750V BS8592 *a* *yy* BASEC

Where *a* is the cross section, e.g. 1.5 *yy* is the year of manufacture, e.g. 2022

I hope the above clarifies our conformity and the undersigned remains at your disposal for further understanding.

Yours sincerely, Prysmian Hong Kong Holding Limited

Eric Tang Business product Manager Prysmian Hong Kong Holding Limited

Unit 06.22nd Floor, CDW Building, , 388 Castle Peak Road, Tsuen Wan HONG KONG

T +852 2827 8308 F +852 2827 7212 www.prysmiangroup.com