Prysmian

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	Construction Standard
IEC 60331-3	Fire Resistant Test
BS EN 50200 - PH120	Fire Resistant Test - Flame & Shock - 120 Minutes
BS 8434-2	Fire Resistant Test - Flame, Shock & Water - 120 Minutes
BS EN 60332-1-2	Flame Propagation - Single Cable
BS EN 61034-2	Smoke emission
BS EN 60754-1	Corrosive and acid gas
BS EN 60228	Conductors

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Mica + polymer

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

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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.

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

BASEC
a kiwa company

Certificate No:
017/004/343

Issue No: 3

Certificate of Product Approval

Licensee:
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 fire resistant cables

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 EI 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 Limited

Date: 06/08/2026

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

BASEC Group Limited, 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

UKAS PRODUCT CERTIFICATION 0004

Expiry date:
11/08/2029

BASEC
a kiwa company

Certificate No:
017/004/343

Issue No: 3

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 Limited



Date: 06/08/2026

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

BASEC Group Limited, 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

UKAS PRODUCT CERTIFICATION 0004

Expiry date:
11/08/2029

LPCB®

www.redbooklive.com

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)

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

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 the property of BRE Global Ltd and is issued subject to terms and conditions (for details visit www.redbooklive.com/terms).

To check the validity of this certificate and appendix please visit www.redbooklive.com/check, scan the QR tag or contact us.

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Appendix to Certificate No: 077p

Issue: 04

PRYSMIAN CABLE & SYSTEMS LIMITED

Product name					LPCB Ref. No.
FP100 LSOH					077p/01
Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 50267-2-1	EN 61034-2	IEC 60331-21
1.5	One[1]	C,W,Z[2,3]	<0.5% HCl	>60%	Complies[4]
2.5	One[1]	C,W,Z[2,3]	<0.5% HCl	>60%	Complies[4]
4.0	One[1]	C,W,Z[2,3]	<0.5% HCl	>60%	Complies[4]
6.0	One[1]	C,W,Z[2,3]	<0.5% HCl	>60%	Complies[4]
10	One[1]	C,W,Z[2,3]	<0.5% HCl	>60%	Complies[4]

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.

Signed for LPCB	David Hoare Certification Scheme Manager	16 September 2014 Date of Issue	13 May 2013 Date of First issue

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Appendix to Certificate No: 077p

PRYSMIAN CABLE & SYSTEMS LIMITED

Issue: 04

LPCB Ref No.	Model No.	Alternative Model No.	Labelled	Distributors Cert/Ref No.
077p/01	FP100 LSOH 1.5mm² - 10mm²	FT SIFER 950i OHLS 1.5mm² - 10mm²	Draka UK Ltd	1134g/01

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Signed for LPCB	David Hoare Certification Scheme Manager	16 September 2014 Date of Issue	13 May 2013 Date of First issue

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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&sectionid=24&searchgrouptypeid=13&searchgroupid=0&id=677

消 防 處
牌 照 及 審 批 總 區
通 風 系 統 課
香港九龍尖沙咀東康莊道 1 號
消防總部大廈 5 樓

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

本處檔號 Our Ref.: FP(LC) 317/21
來函檔號 Your Ref.:
圖文傳真 Fax: 2367 3206
電 話 Tel. No.: 2733 1557

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,

"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

Prysmian Group

PRYSMIAN Draka General Cable

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
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