

FP PLUS®

Fire Resistant Cable. BS 7629-1. 300/500 V



Prysmian FP PLUS is the 'Enhanced', hard skin, dressable fire resistant cable most commonly needed for fire alarm and emergency lighting circuits

KEY APPLICATIONS

- Fire detection and fire alarm systems for buildings.
- Voice alarm systems and emergency voice communication.
- Emergency and escape lighting.
- Control circuits for fire safety and fire fighting systems.
- Other essential service control circuits for "Enhanced" fire resistance.

FEATURES AND BENEFITS

- Fully screened
- Full size CPC in direct contact with screen
- Tough Insudite® insulation
- Low Smoke, Zero Halogen (LSOH®) sheath
- Easy termination
- BS 8519 "Control" - Category 2, Code of Practice Life Safety and Firefighting
- BS 5839-1 "Enhanced", Code of Practice Fire Alarms
- BS 5266-1 "Enhanced", Code of Practice Emergency Lighting
- Manufactured under ISO 9001 Quality management systems

STANDARDS



- BS 7629-1 - Enhanced 120
- BS EN 50200 - PH30
- BS EN 50200 - PH60
- BS EN 50200 - PH120
- BS 8434-2
- BS 6387 Category CWZ
- BS EN 60332-1-2
- BS EN 61034-2
- BS EN 60754-1

- Construction Standard
- Fire Resistant Test - Flame & Shock - 30 Minutes
- Fire Resistant Test - Flame & Shock - 60 Minutes
- Fire Resistant Test - Flame & Shock - 120 Minutes
- Fire Resistant Test - Flame, Shock & Water - 120 Minutes
- Fire Resistant Tests
- Flame Propagation - Single Cable
- Smoke emission
- Corrosive and acid gas

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Crosslinked polymer
Screen construction	Metalized foil
Screen	Yes
Screen material	Aluminium
Material outer sheath	Low smoke zero halogen
Cable shape	Round

APPLICATIONS PROPERTIES

Nominal voltage U ₀ [V]	300
Nominal voltage U [V]	500
Flame retardant	In accordance with BS EN 60332-1-2
Halogen free	Yes
Low smoke	Yes
Max. conductor temperature [°C]	70
Min. Operation temperature [°C]	-25
UV resistant	Yes
Outdoor installation	Yes
Min. Installation temperature [°C]	0
Max. Installation temperature [°C]	60
Bending radius (rule)	6D

COLOURS

Insulation:

Two Cores: Brown, Blue;

Three Cores: Brown, Black, Grey;

Four Cores: Blue, Brown, Black, Grey;

Sheath:

Red or White

CURRENT RATINGS

Refer to table 4D2 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

CONTACT INFORMATION

Prysmian Cables & Systems Limited, Chickenhall Lane, Eastleigh, Hampshire, SO50 6YU, United Kingdom

uk.prysmiangroup.com

www.whyprysmian.co.uk

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.

TECHNICAL DATA

Number of cores	Nominal cross section conductor [mm ²]	Conductor category	Nominal cross section of protective conductor [mm ²]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
2	1.5	Class 1 = solid	1.5	9.2	115	12.1
2	1.5	Class 1 = solid	1.5	9.2	115	12.1
2	1.5	Class 1 = solid	1.5	9.2	115	12.1
2	1.5	Class 1 = solid	1.5	9.2	115	12.1
2	2.5	Class 1 = solid	2.5	11.5	175	7.41
2	2.5	Class 1 = solid	2.5	11.5	175	7.41
2	2.5	Class 1 = solid	2.5	11.5	175	7.41
2	2.5	Class 1 = solid	2.5	11.5	175	7.41
3	1.5	Class 1 = solid	1.5	11.7	175	12.1
3	1.5	Class 1 = solid	1.5	11.7	175	12.1
3	2.5	Class 1 = solid	2.5	12.7	225	7.41
4	1.5	Class 1 = solid	1.5	12.5	210	12.1
4	1.5	Class 1 = solid	1.5	12.5	210	12.1
4	2.5	Class 1 = solid	2.5	13.5	270	7.41
4	2.5	Class 1 = solid	2.5	13.5	270	7.41

Certificate of Product Approval

Certificate Number: 077g

Issue: 08

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:
FP Plus
See Certificate Appendix for details

Standard(s) (see Appendix for details)

BS 7629-1:2015 (ENHANCED 120)
BS 6387:2013 (CWZ)
EN 50200:2015 (Class PH120)
BS 8434-2:2003+A2:2009 (120 mins)
BS 5839-1:2013 (Clause 26.2e Enhanced)

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

Karen Coull
Certification Scheme Manager

01 September 2017
Date of Issue

13 October 2003
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.

LPCB is part of BRE Global Ltd, Garston, Watford, WD25 9XX
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@breglobal.com



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

Issue: 08

Product name						LPCB Ref. No.
FP Plus						077g/02
Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2
1.5	2 ⁽¹⁾	ENHANCED 120	C,W,Z	PH120	120min ⁽³⁾	Enhanced ⁽⁴⁾
2.5	2 ⁽¹⁾	ENHANCED 120	C,W,Z	PH120	120min ⁽³⁾	Enhanced ⁽⁴⁾

Uo/U 300/500V

Notes:

1. Solid conductor only.
2. In meeting the requirements of BS 7629-1:2015, the FP Plus cables listed met the requirements for smoke density of EN 61034-2:2005+A1:2013, and achieved less than 0.5% HCl for the insulation, binder tape and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
3. The duration of 120min when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60min for the fire and mechanical shock phase and an additional 60min for the fire, mechanical shock and water phase.
4. The FP Plus cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met a duration of 120min when tested in accordance with BS 8434-2: 2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1:2013.

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

Karen Coull
Certification Scheme Manager

01 September 2017
Date of Issue

13 October 2003
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.

LPCB is part of BRE Global Ltd, Garston, Watford, WD25 9XX
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@breglobal.com




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

Issue: 08

Product name						LPCB Ref. No.
FP Plus						077g/03
Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2
1.5	2, 3 & 4 ⁽¹⁾	ENHANCED 120	C,W,Z	PH120	120min ⁽³⁾	Enhanced ⁽⁴⁾
2.5	2, 3 & 4 ⁽¹⁾	ENHANCED 120	C,W,Z	PH120	120min ⁽³⁾	Enhanced ⁽⁴⁾

Uo/U 300/500V

Notes:

1. Solid conductor only.
2. In meeting the requirements of BS 7629-1:2015, the FP Plus Flex cables listed met the requirements for smoke density of EN 61034-2:2005+A1:2013, and achieved less than 0.5% HCl for the insulation, binder tape and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
3. The duration of 120min when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60min for the fire and mechanical shock phase and an additional 60min for the fire, mechanical shock and water phase.
4. The FP Plus cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 and met a duration of 120min when tested in accordance with BS 8434-2:2003+A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1:2013.

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

Karen Coull
Certification Scheme Manager

01 September 2017
Date of Issue

13 October 2003
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.

LPCB is part of BRE Global Ltd, Garston, Watford, WD25 9XX
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@breglobal.com






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 7629-1:2015

Description:

Fire resistant screened cables

Details:

ENHANCED 120. Additionally tested to BS 6387:2013 Category CWZ.

Materials:

Insulation EI 5, Sheath LTS 3

Brand Name:

FPPLUS

Origin Mark:

PRYSMIAN (B) or (B) PRYSMIAN (FP PLUS)

Permissible Approval Marks:

BASEC

BASEC name



BASEC roundel

Signed for and on behalf of
BASEC Group Ltd

Kieran O'Brien Date: 06/07/2023

Date of original issue: 10/05/1993

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



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 1	2	1.5	2.5
2	N/A	Class 1	3	1.5	2.5
2	N/A	Class 1	4	1.5	2.5

Signed for and on behalf of
BASEC Group Ltd

Kieran O'Brien Date: 06/07/2023

Date of original issue: 10/05/1993

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