

PRYSMIAN
CABLES & SYSTEMS

FIRE RESISTANT CABLES

PRYSMIAN FP

FP400®

FIRE RESISTANT CABLES

FP400®
BS7846-F2

Certificate No 077b
Certificate No 517b



FP400®

> Prysmian FP400® is the original fire resistant armoured cable providing an easy to install and terminate, robust fire resistant wiring system. In addition to maintaining circuit integrity during a fire, FP400® produces very low levels of smoke and virtually no (less than 0.5%) acidic gases, thus safeguarding human life and protecting equipment.

FP400® handles like a standard armoured cable and can be installed just as easily. No special tools or accessories are needed for installation or termination of FP400®, which ensures that substantial installation cost savings, compared with MICC, can be achieved through its use.

FP400® is suitable for indoor or outdoor installation requiring a robust armoured cable, including direct burial, trough, fixed direct, tray or ladder.

Prysmian FP400® complies with BS7846 Category F2 which ensures that it complies with the requirements for "protected power circuits" given in the 2000 edition of Approved Document B Fire safety of The Building Regulations 2000.

APPROVALS

> Prysmian FP400® is British Approvals Service for Cables (BASEC) approved to BS7846 Category F2. It is also Loss Prevention Certification Board (LPCB) listed as a fire resistant cable and approved to BS6387 Category CWZ, at an enhanced voltage of 600/1000V.

Witnessed ad-hoc tests have demonstrated the ability of FP400® to achieve fire resistant properties in excess of those required by BS6387 Category CWZ and on the basis of these tests Prysmian FP400® has been approved for many projects where previously only MICC had been approved.

Additional tests have demonstrated the ability of FP400® to achieve a 60 minute rating (PH60) to BS EN50200 and a 30 minute rating to BS8434-1. These tests demonstrate that FP400® also meets the requirements for use in "standard" installations in accordance with BS5839-1:2002 for fire detection and alarm systems, and "Cables with inherently high resistance to attack by fire" in accordance with BS5266-1:2005 for emergency lighting.

All Prysmian FP400® cables are manufactured under an ISO 9001 Quality System certified by BASEC and LPCB.

INSTALLATION

> Prysmian FP400® may be considered as a low smoke armoured cable to BS6724 for the purposes of installation and should be installed in accordance with BS7671/IEE Wiring Regulations or any other appropriate national regulations. Although standard armour cable fixings and glands may be used, it is important to ensure that, when the cable is required to maintain circuit integrity in a fire, any fixing used to support the cable can also withstand that fire. The use of the appropriate BICON® gland or cleat is recommended.

CABLE CHARACTERISTICS



Temperature Range
-25 to +90°C



Bending Radius
Circular conductor r=6D
Shaped conductor r=8D



Mechnical Impact
Very Good



Fire Performance
BSEN60332-1-2
BSEN50266-2-4



Flexibility
Rigid



Halogen Free
BSEN50267-2-1



Low Smoke Emissions
BSEN61034-2



Fire Resistant
BS6387
Category
CWZ

FP 400®

FIRE RESISTANT CABLES

Nominal cross sectional area mm²	Approximate overall diameter mm	Approximate diameter under armour mm	Nominal diameter of armour wires mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C ohms/km	Short Circuit rating (1 sec) of conductor KA	Current rating Three phase AC Clipped direct Amps	Current rating Three phase AC Free Air Amps	Volt drop Three phase AC mV/A/m
Three Core									
1.5	13.4	8.8	0.9	340	12.1	0.20	23	25	27
2.5	14.8	10.2	0.9	430	7.41	0.35	31	33	16
4	16.1	11.5	0.9	510	4.61	0.57	42	44	10
6	17.4	12.8	0.9	620	3.08	086	53	56	6.8
10	20.3	14.8	1.25	930	1.83	1.4	73	78	4.0
16	22.8	17.1	1.25	1210	1.15	2.2	94	99	2.5
25	27.4	20.8	1.6	1800	0.727	3.6	124	131	1.65
35	29.2	22.4	1.6	2100	0.524	5.0	154	162	1.15
50	33.0	26.2	1.6	2600	0.387	7.1	187	197	0.87
70	37.0	30.0	1.6	3400	0.268	10.0	238	251	0.60
95	40.6	32.4	2.0	4500	0.193	13.6	389	304	0.45
120	43.8	35.4	2.0	5500	0.153	17.2	335	353	0.37
150	48.0	38.4	2.5	6900	0.124	21.4	386	406	0.30
185	52.0	42.2	2.5	8200	0.0991	26.5	441	463	0.26
240	57.1	46.9	2.5	10200	0.0754	34.3	520	546	0.21
300	63.0	52.6	2.5	12200	0.0601	42.9	599	628	0.185
400	69.5	58.7	2.5	15000	0.0470	57.2	673	728	0.165
Four Core									
1.5	14.3	9.7	0.9	390	12.1	0.20	23	25	27
2.5	16.0	11.4	0.9	490	7.41	0.35	31	33	16
4	17.3	12.7	0.9	590	4.61	0.57	42	44	10
6	19.6	14.1	1.25	830	3.08	0.86	53	56	6.8
10	21.8	16.3	1.25	1040	1.83	1.4	73	78	4.0
16	24.6	18.9	1.25	1370	1.15	2.2	94	99	2.5
25	29.1	22.5	1.6	2100	0.727	3.6	124	131	1.65
35	32.2	25.4	1.6	2500	0.524	5.0	154	162	1.15
50	35.0	28.0	1.6	3200	0.387	7.1	187	197	0.87
70	40.2	32.0	2.0	4500	0.268	10.0	238	251	0.60
95	44.0	35.6	2.0	5600	0.193	13.6	289	304	0.45
120	48.4	38.8	2.5	7200	0.153	17.2	335	353	0.37
150	52.5	42.7	2.5	8500	0.124	21.4	386	406	0.30
185	57.1	46.9	2.5	10300	0.0991	26.5	441	463	0.26
240	62.7	52.3	2.5	12800	0.0754	34.3	520	546	0.21
300	69.6	58.8	2.5	15600	0.0601	42.9	599	628	0.185
400	78.0	65.3	3.15	20400	0.0470	57.2	673	728	0.165

Circular conductor 1.5 - 35mm².
Shaped conductor 50mm² and above.
Installation methods for current rating in accordance with BS7671/IEE Wiring Regulations.
The tabulated ratings are based upon a 30°C ambient temperature and 90°C operating temperature.

LOW VOLTAGE 600/1000V

Nominal cross sectional area mm^2	Approximate overall diameter mm	Approximate diameter under armour mm	Nominal diameter of armour wires mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C ohms/km	Current rating DC or Single phase AC Clipped direct Amps	Current rating DC or Single phase AC Free Air Amps	Volt drop DC mV/A/m	Volt drop Single phase AC mV/A/m
Two Core									
1.5	12.9	8.3	0.9	310	12.1	27	29	31	31
2.5	14.1	9.6	0.9	380	7.41	36	39	19	19
4	15.2	10.6	0.9	450	4.61	49	52	12	12
6	16.4	12.0	0.9	530	3.08	62	66	7.9	7.9
10	18.6	14.0	0.9	630	1.83	85	90	4.7	4.7
16	21.4	15.9	0.9	920	1.15	110	115	2.9	2.9
25	23.7	18.3	1.25	1200	0.727	146	152	1.85	1.9
35	27.2	20.9	1.6	1600	0.524	180	188	1.35	1.35
50	28.0	21.2	1.6	2000	0.387	219	228	0.98	1.00
70	30.7	23.7	1.6	2400	0.268	279	291	0.67	0.69
95	35.3	27.3	2.0	3300	0.193	338	354	0.49	0.52
120	36.6	28.4	2.0	3800	0.153	392	410	0.39	0.42
150	39.3	30.9	2.0	4400	0.124	451	472	0.31	0.35
185	44.2	34.4	2.5	5700	0.0991	515	539	0.25	0.29
240	48.0	38.0	2.5	7200	0.0754	637	636	0.195	0.24
300	51.8	41.6	2.5	8300	0.0601	698	732	0.155	0.21
400	55.9	45.3	2.5	10500	0.0470	787	847	0.120	0.19
Seven Core									
1.5	16.4	11.8	0.9	500	12.1	27 *	29 *	31	31
2.5	18.3	13.7	0.9	640	7.41	36 *	39 *	19	19
4	20.8	15.3	1.25	910	4.61	49 *	52 *	12	12
Twelve Core									
1.5	21.2	15.7	1.25	850	12.1	27 *	29 *	31	31
2.5	24.0	18.3	1.25	1090	7.41	36 *	39 *	19	19
4	27.3	20.9	1.6	1550	4.61	49 *	52 *	12	12
Nineteen Core									
1.5	24.2	18.5	1.25	1120	12.1	27 *	29 *	31	31
2.5	28.6	22.0	1.6	1650	7.41	36 *	39 *	19	19
Twenty-seven Core									
1.5	29.4	22.8	1.6	1650	12.1	27 *	29 *	31	31
2.5	33.4	26.6	1.6	2150	7.41	36 *	39 *	19	19
Thirty-seven Core									
1.5	32.2	25.6	1.6	2000	12.1	27 *	29 *	31	31
2.5	36.7	29.9	1.6	2650	7.41	36 *	39 *	19	19

*The tabulated rating is as a two core cable and may be used where the number of cores carrying current does not exceed its square root of the total number of cores.

FP 400®

FIRE RESISTANT CABLES

KEY APPLICATIONS

> Essential safety circuits associated with fire detection, fire alarm, emergency lighting and particularly for power supplies to building equipment used in safety systems.

CABLE DESCRIPTION:

CONDUCTOR
Plain annealed copper stranded (class 2) conductor for ease of handling.

PRIMARY INSULATION
Mineral ceramic (Mica/Glass) fire resistant tape

SECONDARY INSULATION
90°C cross - linked insulation

CORE IDENTIFICATION:

HARMONISED CORE IDENTIFICATION:
o o brown-blue
o o o brown-black-grey
o o o o blue-brown-black-grey
7-48 cores white with printed numbers

NON HARMONISED CORE IDENTIFICATION:
o o red-black
o o o red-yellow-blue
o o o o black-red-yellow-blue
Non harmonised colours to special order.

BEDDING
Extruded LSOH bedding compound.

ARMOUR
Single layer of galvanised steel wires.

SHEATH
Robust LSOH sheath. Colour - black.
Other colours to special order

INSTALLATION
Minimum recommended installation temperature 0°C.
Suitable for indoor and outdoor installations. For external exposure the use of a Black sheath is recommended.

Should be installed in accordance with BS7671/IEE Wiring Regulations or any other appropriate national regulations.

Suitable for direct burial, trough, tray, ladder or other installations requiring a robust armoured cable.

BENDING RADIUS
A minimum internal radius of bend of 6 x cable diameter is recommended during installations for cables having circular conductors and 8 x cable diameter for cables having shaped conductors.

ACCESSORIES
No special accessories are required for the installation of FP400®.

Standard brass armoured cable glands may be used.

When the cable is required to maintain circuit integrity in a fire, it is important that any accessory used to support the cable can also withstand that fire.

CURRENT RATINGS
The tabulated ratings are based upon a 30°C ambient temperature and a 90°C operating temperature.
For other ambient temperatures or where cables are grouped together, the following correction factors should be applied.

Correction factors for Ambient temperatures

Ambient Temperature °C	25	30	35	40	45	50	55	60
Correction factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71

Correction factors for grouping of cables

Installation Method		Number of circuits or multi-core cables							
		2	3	4	5	6	7	8	9
Single layer clipped to a non-metallic surface	Touching	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70
	Spaced*	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Single layer multicore on a perforated metal cable tray, vertical or horizontal	Touching	0.86	0.81	0.77	0.75	0.74	0.73	0.73	0.72
	Spaced*	0.91	0.89	0.88	0.87	0.87	-	-	-

* Spaced by a clearance between adjacent surfaces of at least one cable diameter.
Where the horizontal clearance between adjacent cables exceeds 2 cable diameters no correction factor need be applied
Note. Standard conditions of grouping as stated in BS7671 IEE Wiring Regs apply

PRYSMIAN
CABLES & SYSTEMS

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Fax: 023 8029 5465

Overseas Sales enquiries
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Fax: +44 23 8089 5465

Information hotline
Tel: +44 (0) 23 8029 5029
Fax: +44 (0) 23 8029 5437
cables.marketing.uk@prysmian.com

www.prysmian.co.uk

UK Technical helpline
Tel: 0845 767 8345
Fax: 023 8029 5002

Overseas Technical helpline
Tel: +44 23 8029 5481
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Prysmian Cables & Systems Limited
Chickenhall Lane
Eastleigh
Hampshire
SO50 6YU
United Kingdom

member of voltimum .co.uk

Ref:FP600/PY/09/06

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Certificate of Management System Registration

Certificate Number: 77 Issue: 18

Prysmian Cables & Systems Limited

having complied with the requirements of:

ISO 9001:2015

Quality Management Systems - Requirements

are certified by BRE Global Ltd. and are authorised to use the LPCB Certification Mark on stationery and publications related to the following products and/or services:

Prysmian Cables & Systems Limited

Energy Cables Division
Chickenhall Lane
Eastleigh
Hampshire
SO50 6YU
United Kingdom

Scope:

Design and manufacture of electric cables for use in installations that require safety in the event of fire.

This certificate is maintained and held in force through regular surveillance activities.

Signed for BRE Global	Ruben Graham Assessment Services	1 December 2022 Date of this Issue	30 November 2025 Expiry Date	13 February 1992 Date of First Issue

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Certificate of Product Approval

Certificate Number: 077b Issue: 13

PRYSMIAN CABLE & SYSTEMS LIMITED

Energy Cables
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:
FP300 fire resistant cable LSOH outer covering
FP400 fire resistant cable LSOH outer covering

See Certificate Appendix for details

Standard(s) (see Appendix for details)

BS 6387:2013 CWZ
EN 61034-2:2005+A1:2013
EN 60754-1:2014

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	Damien Ward Certification Scheme Manager	28 October 2016 Date of Issue	30 November 1994 Date of First issue

UKAS PRODUCT CERTIFICATION 0007

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Appendix to Certificate No: 077b

Issue: 13

PRYSMIAN CABLE & SYSTEMS LIMITED

Product name				LPCB Ref. No.
FP300 fire resistant cable LSOH outer covering				077b/01
Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1 (outer covering)
1.0	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
1.5	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
2.5	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
4.0	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
6.0	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
10	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
16	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl

Uo/U 600/1000V

Notes:

1. Stranded conductor only.

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	Damien Ward Certification Scheme Manager	28 October 2016 Date of Issue	30 November 1994 Date of First issue

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Appendix to Certificate No: 077b

Issue: 13

PRYSMIAN CABLE & SYSTEMS LIMITED

Product name				LPCB Ref. No.
FP400 fire resistant cable LSOH outer covering				077b/02
Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 61034-2	EN 60754-1 (outer covering)
1.5	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
2.5	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
4.0	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
6.0	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
10	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
16	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
25	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
35	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
50	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
70	2, & 3(1)	CWZ	>60%	<0.5% HCl

Uo/U 600/1000 V

Notes:

1. Stranded conductors only.
2. Testing of the FP400 range with diameters greater than 20mm were successfully carried out in accordance with Clause 17.6.2 and Annex I of BS 7846:2015.

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	Damien Ward Certification Scheme Manager	28 October 2016 Date of Issue	30 November 1994 Date of First issue

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Certificate of Product Approval

Certificate Number: 517b Issue: 06

PRYSMIAN CABLE & SYSTEMS LIMITED

Energy Cables Unit
Wrexham Industrial Estate
Wrexham
LL13 9PH
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:
FP400 Fire Resistant Cable
See Certificate Appendix for details

Standard(s) (see Appendix for details)

BS 6387:2013 CWZ
EN 61034-2:2005+A1:2013
EN 60754-1:2014

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	Damien Ward Certification Scheme Manager	12 October 2016 Date of Issue	04 September 2001 Date of First issue

UKAS PRODUCT CERTIFICATION 0007

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Appendix to Certificate No: 517b

Issue: 06

PRYSMIAN CABLE & SYSTEMS LIMITED

Product name				LPCB Ref. No.
FP400 Fire Resistant Cable				517b/01
Nominal csa of conductor (mm^2)	Core Construction (excluding drain wire and earth)	BS 6387	EN 61034-2	EN 60754-1 (outer covering)
70	4(1)	CWZ	>60%	<0.5% HCl
95	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
120	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
150	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
185	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
240	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
300	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl
400	2, 3 & 4(1)	CWZ	>60%	<0.5% HCl

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. Testing of the FP400 range with diameters greater than 20mm were successfully carried out in accordance with Clause 17.6.2 and Annex I of BS 7846:2015.

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	Damien Ward Certification Scheme Manager	12 October 2016 Date of Issue	04 September 2001 Date of First issue

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Appendix to Certificate No: 517b

Issue: 06

PRYSMIAN CABLE & SYSTEMS LIMITED

LPCB Ref No.	Model No.	Alternative Model No.	Labelled	Distributors Cert/Ref No.
517b/01	FP400 95mm² - 400mm² at 2, 3 & 4 cores 70mm² at 4 cores	FTP 95mm² - 400mm² at 2, 3 & 4 cores 70mm² at 4 cores	Draka UK Ltd	1134f/01

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	Damien Ward Certification Scheme Manager	12 October 2016 Date of Issue	04 September 2001 Date of First issue

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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

24 March 2017

Prysmian Hong Kong Holding Limited
Units 1511-12, 15/F., Lu Plaza
2 Wing Yip Street, Kwun Tong
Kowloon
Hong Kong
(Attn.: Mr. Stephen LAM)

Dear Sir,

"Prysmian" FP400 Fire Resistant Cables

I refer to your letter dated 16.12.2016 enclosing a set of catalogues and certificates and supplementary information submitted on 13.3.2017 with respect to the captioned fire resistant cables.

We have no objection in principle to the use of "Prysmian" FP400 fire resistant cables for fire service installations in Hong Kong subject to compliance with the Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment, 2012 Edition, relevant FSD Circular Letters and according to the following details:

Manufacturer	: Prysmian Cable & Systems Limited, UK
Model	: FP400
Construction	: Plain annealed copper conductor, mineral ceramic tape, cross link insulation, LSOH bedding, steel wire armour, LSOH sheath
Conductor Size	: 1.5 to 400 mm^2 inclusive with 2, 3 and 4 core
Test Certificates	: Certificate No. 077b (Issue: 13) of 28.10.2016 and 517b (Issue: 06) of 12.10.2016 issued by Loss Prevention Certification Board (LPCB)

/2...

Test Standard & Result	: a)	For cables with size of 1.5 to 10 mm^2 with 2 core and 1.5 to 6 mm^2 with 3 and 4 core (with overall diameter not exceeding 20 mm): BS 6387: 2013 (Category C, W, Z)
	b)	For cables with size of 16 to 400 mm^2 with 2 core, 10 to 400 mm^2 with 3 and 4 core (with overall diameter exceeding 20 mm): BS 7846: 2015 (Category F2)
Quality Assurance Scheme	:	The manufacturer operates a quality management system to ISO 9001: 2008 certified by LPCB under Certificate No. 077 (Issue: 15) of 25.11.2016.
Remark	: a)	The cables shall remain LPCB listed and valid certificates shall be maintained;
	b)	The cables shall bear appropriate markings of the manufacturer and certification body for identification purpose;
	c)	Our previous letter of the same series dated 17.10.2016 for the same fire resistant cables is hereby superseded; and
	d)	This assessment is subject to review by February 2022.

Yours faithfully,

(LAM Sui-hang)
for Director of Fire Services

SHL/chl
FileCode: prysmian fp400 20170324.doc

Prysmian Group

Test No **19331**

RFS No **4890**

BISHOPSTOKE FIRE TEST LABORATORY

REPORT OF FIRE RESISTANCE TEST

ORDER No. **11602710b**

TEST STANDARD **BS EN 50200 : 2006**

Category/Classification **PH 120**

CABLE DESCRIPTION **4 x 6 mm2 FP400 Black to BS7846**

Cable diameter **20** mm Clip size **-**

TEST CONDITIONS

Test Voltage **1000** V Nominal flame temperature **850** ° C

Test duration **120** mins

Ambient temperature **16** °C

TEST OBSERVATIONS **No fuse ruptured or lamp extinguished.**

RESULT **Pass**

Tested by **R Buck** Witnessed by

Signed Signed

pp R-BUCK

Test date **17/10/2012**

Prysmian Group

Test No **19329**

RFS No **4890**

BISHOPSTOKE FIRE TEST LABORATORY

REPORT OF FIRE RESISTANCE TEST

ORDER No. **11602710a**

TEST STANDARD **BS EN 50200 : 2006**

Category/Classification **PH 120**

CABLE DESCRIPTION **2 x 1.5 mm2 FP400 Black to BS7846**

Cable diameter **13.5** mm Clip size **AP13**

TEST CONDITIONS

Test Voltage **1000** V Nominal flame temperature **850** ° C

Test duration **120** mins

Ambient temperature **16** °C

TEST OBSERVATIONS **No fuse ruptured or lamp extinguished.**

RESULT **Pass**

Tested by **R Buck** Witnessed by

Signed pp R-Buck. Signed

Test date **15/10/2012**

BASEC
a kiwa company

Certificate No:
017/004/340

Issue No: 6

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 7846:2015

Description:
Armoured fire resistant power cables

Details:
Resistance to fire - Category F2.

Materials:
Insulation GP 8, Sheath LTS 1

Brand Name:
FP400

Origin Mark:
PRYSMIAN (B) FP400 or (B) PRYSMIAN FP400

Permissible Approval Marks:

BASEC name | BASEC roundel

Signed for and on behalf of BASEC Group Limited

Date: 06/08/2026

Date of original issue: 17/03/1997
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:
017/004/340

Issue No: 6

Type(s) and Range(s) of Approval

Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size - sqmm
4	N/A	Class 2	2	1.5	70
5	N/A	Class 2	3	1.5	70
6	N/A	Class 2	4	1.5	70
7	N/A	Class 2	5	1.5	10
8	N/A	Class 2	7	1.5	4
8	N/A	Class 2	12	1.5	4
8	N/A	Class 2	19	1.5	4
8	N/A	Class 2	27	1.5	4
8	N/A	Class 2	37	1.5	4

Signed for and on behalf of BASEC Group Limited

Date: 06/08/2026

Date of original issue: 17/03/1997
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

BRE Global
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Watford, Herts
WD25 9XX

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E enquiries@breglobal.com
W www.bre.co.uk/global

Mr R Colwell
Prysmian Group
Chickenhall Lane
Eastleigh
Hampshire
SO50 6YU

1 October 2015
Our Ref. JM011015

Dear Ray

LPCB Approval – Prysmian Group – FP400 Range and FTP Cable Range

This letter is to confirm that the Prysmain Group products listed below have been successfully tested in accordance with BS 6387:2013. Testing of the FP400 and FTP range with diameters greater than 20mm were successfully carried out in accordance with Clause 17.4.3 and Annex L of BS 7846:2009.

Model No.	LPCB No.	Labelled As
FP400	077b	Prysmian Cable & Systems Limited
FP400 Fire Resistant Cable	517b	Prysmian Cable & Systems Limited
FTP	1134e	DRAKA UK Limited
FTP	1134f	DRAKA UK Limited

Assuring you of our best intentions at all times.

Yours sincerely,

Jenny Morris
Certification Scheme Manager
For and on behalf of BRE Global Ltd.
Telephone +44(0)1923 665262
morrisje@bre.co.uk

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BRE Global is wholly owned by a charity, the BRE Trust. All BRE Global profits are passed to the BRE Trust to promote its charitable objectives.

5th January 2021

To Whom It May Concern

Dear Customers,

Qualification of Prysmian and Draka Fire Resistant Cables for "Listed Product" of FSD

Refer to FSD Circular Letter No. 3/2020 of 15 July, 2020, this is to inform that "Prysmian" and "Draka" fire resistant cables with respect to attached Appendix II are "Listed Product" online for public access accredited with Product Certification Body (PCB), which are LPCB and BASEC under the UKAS hierarchy partnering with Multilateral Recognition Arrangement (MLA) of HKCAS.

Therefore, prior acceptance by FSD is not required since the qualification of our fire resistant cables underlying with attached Appendix A, are online for validation with the following websites.

- LPCB with https://www.redbooklive.com/check/ by entering the certificate number e.g. 077n for Prysmian FP600S, 1134d for Draka FTP 120 and etc.

- BASEC with https://www.basec.org.uk/ by clicking "Company Search" to enter "Prysmian Cables & Systems Ltd" or "Draka UK Ltd" to choose the corresponding product certificates e.g. 017/004/330 for Prysmian FP600S, 189/001/071 for Draka FTP 120 and etc.

To apply for FSI inspection, Registered Fire Service Installation Contractors (RFSICs) are required to submit Equipment List (Annex III) along with FSI/501a Form. For Fire Resisting Cables of ours that are supported with corresponding certificates of Appendix A, a specimen of Equipment List (Annex III) whereas the wirings are applicable for installation, is enclosed for submission reference.

Our product catalogue and corresponding LPCB & BASEC certificates are available on request or online for downloading and we are at your disposal for further understanding should there be any queries.

Yours sincerely,
For and on behalf of Prysmian Group, Hong Kong office



Stephen Lam
Business Director
Hong Kong and Macau Area

Encl: Appendix II – Listed Product
Appendix A - Qualification of Prysmian and Draka Fire Resistant Cables
Annex III – Equipment List

Prysmian Hong Kong Holding Limited
Suite 2206, 22/F, CDW Building
388 Castle Peak Road, Tsuen Wan
HONG KONG

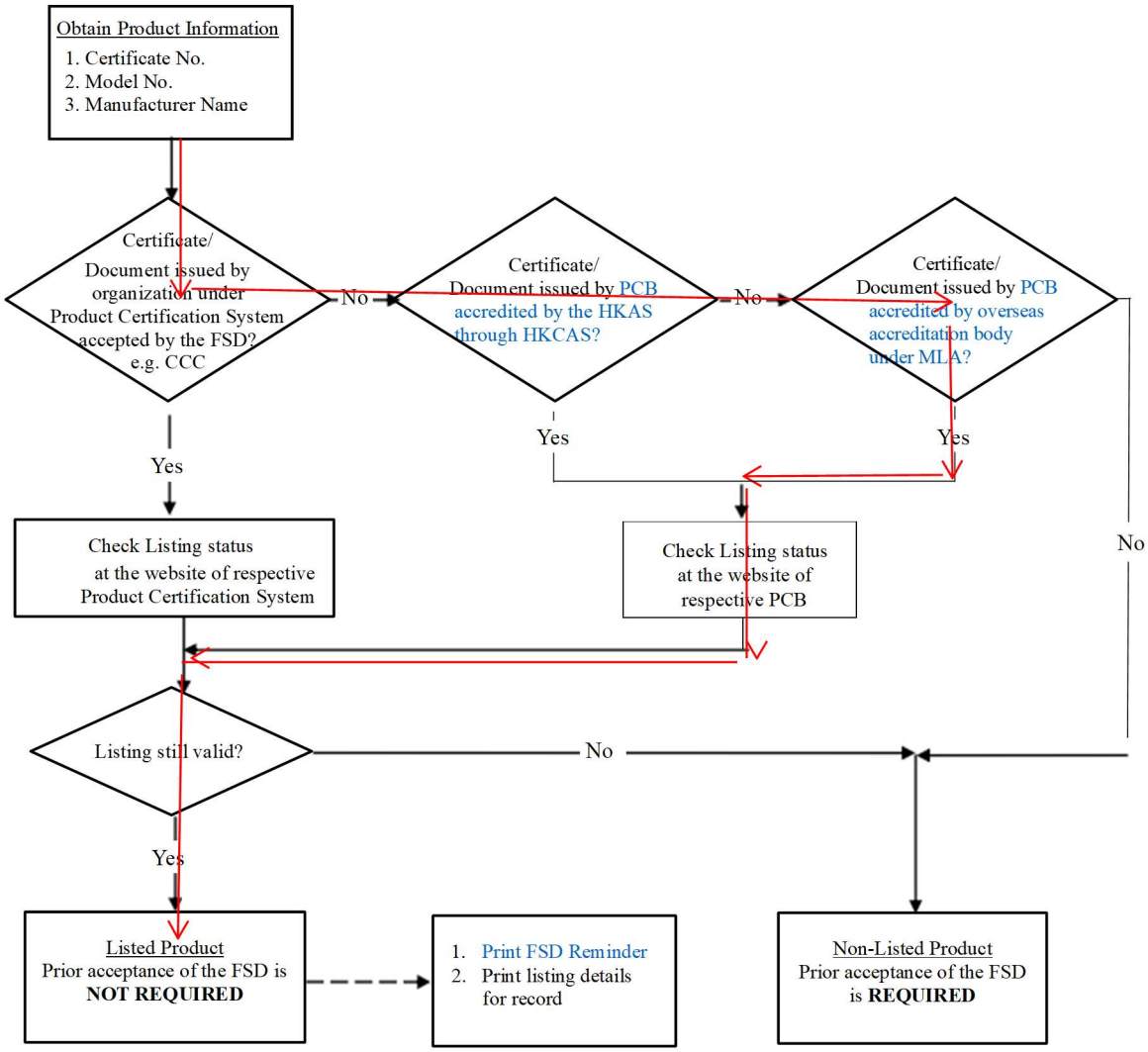
T +852 2588 7280
F +852 2827 7212
www.prysmiangroup.com

Listed Product for Prysmian and Draka Fire Resistant Cables

Appendix II

Checking the Validity of Product Certification (Listed Product)

'Product Certification' means the certification of a product which has been carried out in accordance with the conformity assessment as required by respective product certification scheme. In general, product certification includes product testing, conformity assessment with certification and surveillance inspection as stipulated in ISO/IEC 17067. For more information on the product certification scheme, please consult the manufacturer or Product Certification Body.



Abbreviations

PCB	-	Product Certification Body
MLA	-	Multilateral Recognition Arrangement
CCC	-	China Compulsory Certification System
HKAS	-	Hong Kong Accreditation Service
HKCAS	-	Hong Kong Certification Accreditation Scheme

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Appendix A - Qualification of Prysmian and Draka Fire Resistant Cables

Standard	PRYSMIAN	LPCB	BASEC	DRAKA	LPCB	BASEC
BS 6387 CWZ IEC 60331-21 BS 8592 IEC 60331-3 EN 50200 PH120 BS 8434-2	**FP 100**	077c 077p	017/004/343	**FT Sifer 950i**	1134c 1134g	189/001/080
BS 6387 CWZ IEC 60331-21	**FP 300**	077b 077e 517a		**FT Sifer 950s**	1134h	
BS 6387 CWZ BS 7629-1 (Standard) BS 5839-1 (Standard) EN 50200 PH60+Annex E	**FP 200**	077f	017/004/324	**FT 30 Saffire**	1134j	189/001/068
BS 6387 CWZ BS 7846-F2	**FP 400**	077b 517b	017/004/340 017/006/082	**FTP**	1134e 1134f	189/001/078 189/003/023
BS 6387 CWZ BS 7629-1 (Enhanced) BS 5839-1 (Enhanced) BS 8434-2 (120 mins) EN 50200 PH120	**FP Plus**	077g	017/004/325	**FT 120**	1134b	189/001/067
BS 8491 (120 mins) BS 7846-F120 BS 7846-F2	**FP 600S**	077n 517c	017/004/330 017/006/083	**FTP 120**	1134d	189/001/071 189/003/024

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Annex III

Fire Service Installations – Equipment List (Revised in July 2020)

(To be appended to Form FSI/501a)

FP Ref. no. …… Address of Premises:……

Item	System/ Equipment	Manufacturer/ model no./ part no. (a)	FSD Approval/ Acceptance Reference (If available) (b)	Listing Certificates/Records/Printouts/Documents issued by Product Certification Bodies / Product Certification System (c)	
				Name of Product Certification Body/ Product Certification System	Listing Certificates/Records/ Printouts/ Documents Number
I	**Fire resisting Cable**				
I1	Audio / visual advisory system				
I2	Automatic actuating device				
I3	Automatic fixed installation other than water	Prysmian		LPCB	077n
I4	Deluge system	FP 600S			517c
I5	Drencher system				
I6	Fire hydrant / hose reel system			BASEC	017/004/330
I7	Fixed foam system				017/006/083
I8	Pressurization of staircase				
I9	Ring main system with fixed pumps(s)				
I10	Smoke extraction system				
I11	Street fire hydrant system				
I12	Water mist system	Draka		LPCB	1134d
I13	Water spray system	FTP 120			
I14	Fire Service water supply system			BASEC	189/001/071
I15	Emergency generator				189/003/024
I16	Emergency lighting				
I17	Exit sign				
I18	Fire alarm system				
I19	Fire detection system				
I20	Fireman's lift				
I21	Sprinkler system				

This is to confirm that either original copies of above mentioned documents or their photocopies which have been checked as true and correct, are appended to this Equipment List.

…… …… (RC /) …… ……..

Full Name of FSI Contractor Signature Registration Number Company Chop Date

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