

PRYSMIAN FP100 MT/LSOH

Single Core Fire Resistant Conduit Wire refer to BS 8592 450/750V



Certificate

Application

FP100 is ideally suited to draw into conduit, in trunking or in ducting installations that provide adequate mechanical protection and it forms the key part of a wiring system for fire alarm, emergency lighting, evacuation and fire fighting applications. Green/Yellow is also suitable as a separate earth.

- Tough robust insulation prevents damage during installation
- Low smoke and corrosive gas emissions (LSOH)

Construction

No.	Classification	Code	Construction detail
①	Conductor	CU	Annealed copper conductor BS EN60228(IEC60228) Class 2
②	Fire barrier	MT	Mica tape
③	Insulation	LSOH	LSOH according to EN50363-5 EI5

Cable marking

The outer sheath is marked in ink printing as follows:

PRYSMIAN (S) FP100 BASEC ELECTRIC CABLE BS8592 BS6387 CWZ BS8434-2 BSEN50200 PH120+ANNEX E 450/750V SIZE YYYY XXXXm

Note: 1.5mm² – 6 mm² does not print meter mark on sheath



Core Identification

Brown, Blue, Black, Grey, Y/G

Other colours available as customer requirement

Applicable Standards

Design guidelines	BS 8592
Halogen properties	BS EN (IEC) 60754-1, BS EN (IEC) 60754-2
Flame retardant properties	BS EN (IEC) 60332-1-2
Fire resistance properties	IEC 60331-3 BS 6387 CWZ BS 8434-2:2003+A2:2009, BS EN 50200:2015 PH120 + Annex E
Smoke density	BS EN (IEC) 61034-2

Technical Data

Rated voltage	450/750 V
Test voltage	2.5kV/15min
Temperature range	-15℃-90℃

Bending Radius

Minimum bending radius	Cable diameter D(mm)			
	D≤8	8<D≤12	12<D≤20	D>20
Normal use	4D	5D	6D	6D
Careful bending at termination	2D	3D	4D	4D
Notes:D=overall diameter of cable				

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No. of cores	×	C.S.A	Conductor type	Shape of Conductor	Nominal thickness of insulation	Approx. overall diameter	Approx. weight	DC resistance at max.20°C	Minimum insulation resistance at 90°C
n		mm²			mm	mm	Kg/km	Ω/km	MΩ/km
1	×	1.5	Class2	circular	0.7	4.2	32	12.1	0.01
1	×	2.5	Class2	circular	0.8	4.8	45	7.41	0.009
1	×	4	Class2	circular	0.8	5.4	62	4.61	0.0077
1	×	6	Class2	circular	0.8	5.9	83	3.08	0.0065
1	×	10	Class2	circular	1.0	7.3	137	1.83	0.0065
1	×	16	Class2	circular	1.0	8.4	196	1.15	0.005
1	×	25	Class2	circular	1.2	10.1	304	0.727	0.005
1	×	35	Class2	circular	1.2	11.2	401	0.524	0.0043
1	×	50	Class2	circular*	1.4	12.0	506	0.387	0.0043
1	×	70	Class2	circular*	1.4	13.7	707	0.268	0.0035

Note *: compacted conductor

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No. of cores	×	C.S.A	Current rating (enclosed in conduit)				Voltage drop A.C.		Short circuit current (1s)
			Single phase AC or DC (Conduit in thermally insulating wall)	Three phase AC (Conduit in thermally insulating wall)	Single phase AC or DC (Conduit in free air)	Three phase AC (Conduit in free air)	Single-phase enclosed in conduit or trunking	Three-phase enclosed in conduit or trunking	
n		mm²	A	A	A	A	mV/A/m	mV/A/m	kA(1s)
1	×	1.5	19	17	23	20	31.000	27.000	0.21
1	×	2.5	26	23	31	28	19.000	16.000	0.36
1	×	4	35	31	42	37	12.000	10.000	0.57
1	×	6	45	40	54	48	7.900	6.800	0.86
1	×	10	61	54	75	66	4.700	4.000	1.43
1	×	16	81	73	100	88	2.900	2.500	2.29
1	×	25	106	95	133	117	1.900	1.650	3.58
1	×	35	131	117	164	144	1.350	1.150	5.01
1	×	50	158	141	198	175	1.050	0.900	7.15
1	×	70	200	179	253	222	0.750	0.650	10.01

Note Current ratings at ambient temprature 30°C

BASEC
BRITISH APPROVALS SERVICE FOR CABLES

Certificate No:
225/001/010
Issue No: 2

Certificate of Product Approval

Licensee:
Suzhou Draka Cable Co., Ltd.

No. 88 Kangyuan Road, Xiangcheng Economic Development District, Suzhou, 215131, China

Factory:
No. 88 Kangyuan Road, Xiangcheng Economic Development District, Suzhou, 215131, China

Standard:
BS 8592:2016

Description:
Single core fire resistant cables with thermosetting insulation and having low emission of smoke and corrosive gases when affect 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 EN 61034-2, BS EN 60754-1 and IEC 60331-3.

Additional tested to BS 6387:2013 CWZ, BS EN 50200:2015 PH120 and Annex E, BS 8434-2:2003 +A2:2009 (all preceding tests conducted in steel conduit).

These cables are rated 450/750 V.

Materials:
Insulation EI 5, Sheath N/A

Brand Name:
FP100
FT Sifer 950i

Origin Mark:
PRYSMIAN (S) FP100
DRAKA (S) FT Sifer 950i

Permissable Origin Marks:

BASEC name | BASEC roundel

Signed for and on behalf of BASEC Group Ltd

Date: 22/04/2025

Date of original issue: 17/04/2025

Check BASEC website to verify validity.

UKAS PRODUCT CERTIFICATION 0004

Expiry date:
01/06/2027

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Registered in England No. 13950143, Tel: +44 (0)1908 267300
Email: mail@basec.org.uk Web: www.basec.org.uk

BASEC
BRITISH APPROVALS SERVICE FOR CABLES

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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

Date: 22/04/2025

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消　防　處
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消防工程合規課
通風系統組
香港灣仔告士打道 5 號稅務大樓 35 樓

FIRE SERVICES DEPARTMENT
LICENSING & CERTIFICATION COMMAND
Fire Protection Engineering Compliance Division
Ventilating Systems Group
35/F, Revenue Tower,
5 Gloucester Road, Wan Chai, Hong Kong

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13 June 2025

Prysmian Hong Kong Holding Limited
Unit 06, 22/F CDW Building
388 Castle Peak Road
Tsuen Wan
Hong Kong
(Attn.: Mr. Eric TANG)

Dear Sir,

"Prysmian/Draka" Prysmian FP100/ Draka FT Sifer 905i Fire Resisting Cables

I refer to your application form with your above reference letter signed on 12.5.2025 and copy of certificates and product catalogue, with respect to the captioned product for our acceptance assessment.

According to FSD Circular Letter No. 1/2024, any fire service installation/ equipment (except portable equipment, i.e. fire extinguisher, fire blanket, etc.) which is certified and properly listed by one of our recognized Product Certification Bodies (PCBs) is deemed to be accepted by this Department subject to (i) no change of the listing condition; and (ii) such equipment and the installation being in conformity with all relevant local requirements.

The application for the captioned product acceptance by this Department is not required subject to their valid BASEC listing in compliance with BS 8592:2016 with additional tested to BS 6387:2013 CWZ, BS EN 50200:2015 PH120 and Annex E, BS 8434-2:2003+A2:2009 (all preceding tests conducted in steel conduit) as listed in the BASEC product certification scheme and their correct cable markings.

Yours faithfully,

(Stanley CHOW)
for Director of Fire Services

cc:
CTO(FPEC) c/w copy of incoming application form and BSSEC certificate only for record - Fax: 2382 2495

SC/WLC/why
FileCode: Fire Resistant Cable_Prysmian FP100_Draka FT Sifer cables_20250613.doc