

Nominal cross-sectional area	Mean overall diameter	Approximate cable weight	Minimum bending radius (fixed)	Maximum conductor resistance at 20 °C	Short circuit rating (1 sec)	Current rating DC or Single phase AC Clipped direct	Current rating DC or Single phase AC Free Air	Volt drop DC	Volt drop Single phase AC
mm ²	mm	kg/km	mm	ohms/km	KA	Amps	Amps	mV/A/m	mV/A/m

TWO CORE

1.0	10.7	145	65	18.1	0.14	19	21	46	46
1.5	11.2	165	65	12.1	0.20	24	26	31	31
2.5	12.1	200	70	7.41	0.35	33	36	19	19
4.0	13.2	250	80	4.61	0.57	45	49	12	12
6.0	14.3	315	85	3.08	0.86	58	63	7.9	7.9
10	16.2	385	100	1.83	1.4	80	86	4.7	4.7
16	18.3	550	110	1.15	2.2	107	115	2.9	2.9
25	21.4	925	130	0.727	3.5	138	149	1.85	1.9
35	22.9	1080	140	0.524	5.0	171	185	1.35	1.4
50	25.6	1350	160	0.387	7.1	209	225	1.0	1.0
70	29.5	1905	180	0.268	10.0	269	289	0.67	0.69
95	33.2	2455	200	0.193	13.5	328	352	0.49	0.52
120	36.7	3065	220	0.153	17.1	382	410	0.39	0.42
150	40.5	3740	250	0.124	21.4	441	473	0.31	0.35
185	45.8	4730	280	0.0991	25 ²	506	542	0.25	0.29
240	52.6	6335	320	0.0754	25 ²	599	641	0.195	0.24
300	58.2	7540	350	0.0601	25 ²	693	741	0.155	0.21

SEVEN CORE

1.0	14.1	265	85	18.1	0.14	19 ¹	21 ¹	46	46
1.5	14.9	405	90	12.1	0.21	24 ¹	26 ¹	31	31
2.5	16.1	560	100	7.41	0.35	33 ¹	36 ¹	19	19

TWELVE CORE

1.0	17.9	310	110	18.1	0.14	19 ¹	21 ¹	46	46
1.5	19.0	480	120	12.1	0.21	24 ¹	26 ¹	31	31
2.5	20.8	680	130	7.41	0.35	33 ¹	36 ¹	19	19

NINETEEN CORE

1.0	20.7	395	130	18.1	0.14	19 ¹	21 ¹	46	46
1.5	22.1	620	140	12.1	0.21	24 ¹	26 ¹	31	31
2.5	24.2	900	150	7.41	0.35	33 ¹	36 ¹	19	19

TWENTY SEVEN CORE

1.0	24.6	735	150	18.1	0.14	19 ¹	21 ¹	46	46
1.5	26.0	920	160	12.1	0.21	24 ¹	26 ¹	31	31
2.5	28.8	1190	180	7.41	0.35	33 ¹	36 ¹	19	19

THIRTY SEVEN CORE

1.0	27.3	950	170	18.1	0.14	19 ¹	21 ¹	46	46
1.5	29.4	1195	180	12.1	0.21	24 ¹	26 ¹	31	31
2.5	32.6	1575	200	7.41	0.35	33 ¹	36 ¹	19	19

Note 1. The majority of cores in a multicore auxiliary cable carry only small or intermittent current and a current rating based on the assumption that only 2 cores, the positive and negative (or line and neutral) feed cores approach the maximum permitted current loading is given. Where all cores in a cable are equally loaded the following factors should be applied to the 2 core rating.

Number of cores	2	7	12	19	27	37
Rating factor	1.00	0.63	0.53	0.45	0.40	0.36

Note 2. The short circuit rating is limited by the bursting strength of the unarmoured cable design.

Nominal cross-sectional area	Mean overall diameter	Approximate cable weight	Minimum bending radius (fixed)	Maximum conductor resistance at 20 °C	Short circuit rating (1 sec)	Current rating Three phase AC Clipped direct	Current rating Three phase AC Free Air	Volt drop Three phase AC
mm ²	mm	kg/km	mm	ohms/km	KA	Amps	Amps	mV/A/m
THREE CORE								
1.0	11.2	165	70	18.1	0.14	17	18	40
1.5	11.8	185	70	12.1	0.20	22	23	27
2.5	12.7	230	80	7.41	0.35	30	32	16
4.0	13.9	300	85	4.61	0.57	40	42	10
6.0	15.1	380	90	3.08	0.86	52	54	6.8
10	17.1	540	110	1.83	1.4	71	75	4.0
16	19.4	760	120	1.15	2.2	96	100	2.5
25	22.8	1185	140	0.727	3.5	119	127	1.65
35	24.4	1410	150	0.524	5.0	147	158	1.15
50	27.3	1810	170	0.387	7.1	179	192	0.87
70	31.7	2595	190	0.268	10.0	229	246	0.60
95	35.7	3400	220	0.193	13.5	278	298	0.45
120	39.4	4300	240	0.153	17.1	322	346	0.37
150	43.5	5215	270	0.124	21.4	371	399	0.30
185	49.2	6430	300	0.0991	25 ²	424	456	0.26
240	56.7	8700	340	0.0754	25 ²	500	538	0.21
300	62.6	10470	380	0.0601	25 ²	576	621	0.185
FOUR CORE								
1.0	12.1	195	75	18.1	0.14	17	18	40
1.5	12.7	220	80	12.1	0.20	22	23	27
2.5	13.8	280	85	7.41	0.35	30	32	16
4.0	15.1	365	90	4.61	0.57	40	42	10
6.0	16.4	465	100	3.08	0.86	52	54	6.8
10	18.7	625	120	1.83	1.4	71	75	4.0
16	21.2	925	130	1.15	2.2	96	100	2.5
25	25.0	1485	150	0.727	3.5	119	127	1.65
35	26.8	1860	160	0.524	5.0	147	158	1.15
50	30.3	2380	190	0.387	7.1	179	192	0.87
70	35.2	3280	220	0.268	10.0	229	246	0.60
95	39.6	4535	240	0.193	13.5	278	298	0.45
120	43.8	5730	270	0.153	17.1	322	346	0.37
150	48.5	6745	300	0.124	21.4	371	399	0.30
185	54.8	8355	330	0.0991	25 ²	424	456	0.26
240	63.2	11345	380	0.0754	25 ²	500	538	0.21
300	69.8	13725	420	0.0601	25 ²	576	621	0.185

Note 2. The short circuit rating is limited by the bursting strength of the unarmoured cable design.

Loss Prevention Certification Board



APPENDIX TO CERTIFICATE NO. 077b

PRYSMIAN CABLES & SYSTEMS LTD
(Formerly Pirelli Cables Ltd (Eastleigh))

Products

LPCB Ref. No.

FP 300 fire resistant cable LSOH outer covering

077b/01

Nominal csa of conductor (mm ²)	Core construction	BS 6387	BS EN 50267-2-1 (outer covering)
1.0	2, 3 & 4	C, W, Z	<0.5% HCl
1.5	2, 3 & 4	C, W, Z	<0.5% HCl
2.5	2, 3 & 4	C, W, Z	<0.5% HCl
4.0	2, 3 & 4	C, W, Z	<0.5% HCl
6.0	2, 3 & 4	C, W, Z	<0.5% HCl
10.0	2, 3 & 4	C, W, Z	<0.5% HCl
16.0	2, 3 & 4	C, W, Z	<0.5% HCl

Uo/U 450/750 V

Note: The FP 300 LSOH cable also met category C, W, Z when tested for voltage rating 600/1000V which is not recognised by BS 6387.

This certificate is valid until withdrawn by LPCB.
To check the validity and the authenticity of this certificate please visit our website www.RedBookLive.com or contact us.

Signed on behalf of the LPCB

Name: R PHILLIPS

Page 2 of 4

Date of Issue 21 April 2006

Issue No. 09

LPCB is part of BRE Certification Ltd., Garston, Watford WD25 9XX. Tel +44 (0)1923 664100
Fax +44 (0)1923 664603 www.RedBookLive.com

This certificate remains the property of BRE Certification Ltd and is issued subject to terms and conditions and is maintained and held in force through regular surveillance activities.

消防處
牌照及審批總區
通風系統課

九龍尖沙嘴亞旺道一號
消防局總部大樓五樓



FIRE SERVICES DEPARTMENT
LICENSING & CERTIFICATION
COMMAND

Ventilation Division
5/F, Fire Services Headquarters Building,
1 Hong Chong Road, Tsim Sha Tsui East,

Our Ref. FP (FS) 317/21 V

Your Ref.

Fax. 852-2382 2495

Tel. No. 852-22514140

22 June 2006

Messrs. Prysmian Cable Systems Pte Ltd.,
Room 1010-11, Lu Plaza,
2 Wing Yip Street,
Kwun Tong,
Hong Kong.
(Attn. Mr. Stephen LAM)

Dear Sir,

**"Prysmian" Fire Resistant Cables
(Formerly Known as Pirelli Cable)**

I have scrutinized the documents attached to your letter dated 30 May 2006. Please be informed that I have no objection in principle to the use of "Prysmian" fire resistant cables in fire service installations subject to compliance with the Code of Practice for Minimum Fire Service Installations and Equipment (2005 Edition), and according to the following details:

- Manufacturer : Prysmian Cables & Systems Ltd., (Formerly known as Pirelli Cables Limited), Hants, UK
- Cable Model : a) FP100 and FP 300 & FP 300MI single core fire resistant cables
b) FP 200 Gold & FP 150 LSOH fire resistant cables
c) FP200 Flex fire resistant cables
d) FP150, FP 300 & FP 400 fire resistant cable LSOH outer covering
- Cable Sizes : a) "FP100" from 1.0 to 95 mm² inclusive, single core
b) "FP150" from 1.0 to 2.5 mm² inclusive; 2, 3&4 cores
c) "FP200 Gold" from 1.0 to 4.0 mm² inclusive; 2, 3&4 cores

- d) "FP200 Gold" 1.0 mm² 7 cores, 1.5 mm² 7, 12 & 19 cores and 2.5 mm² 7 & 12 cores.
- e) "FP200 Flex" from 1.0 to 2.5 mm² inclusive; 2, 3&4 cores
- f) "FP300" from 1.0 to 35 mm² inclusive; single core
- g) "FP300" LSOH from 1.0 to 16 mm² inclusive; 2, 3&4 cores
- h) "FP400" LSOH from 1.0 to 400 mm² inclusive; 2, 3&4 cores.

Test Certificate

Certificate Issued by the Loss Prevention Certification Board:

- a) Certificate No. 077a dated 21 April 2006, Issue No. 09 with Appendix ref. no. 077a/02 and 077/03.
 - b) Certificate NO. 077b dated 21 April 2006, Issue No. 09 with Appendix ref. no. 077b/01 and 077b/02.
 - c) Certificate NO. 077c, Issue 07 dated 21 April 2006 with Appendix ref. no. 077c/01.
 - d) Certificate NO. 077d, Issue No. 06 dated 21 April 2006 with Appendix ref. no. 077d/01.
 - e) Certificate NO. 077e, Issue No. 05 dated 21 April 2006 with Appendix ref. no. 077e/01 and 077e/02.
- Certificate NO. 077f, Issue 03 dated 21 April 2006 with Appendix ref. no. 077f/01.

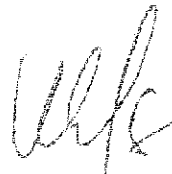
Standard Tested & Results

BS 6387: 1994: (Category C, W, Z)- complies

Remark

- a) Large single core cables which comply with BS 6387 Cat C only will be considered on project basis.
- b) The cables shall have LPCB mark.
- c) The LPCB Certificates shall remain valid.
- d) This assessment is subject to review by June 2011.

Yours faithfully,



(TSE Kin-cheung)
for Director of Fire Services