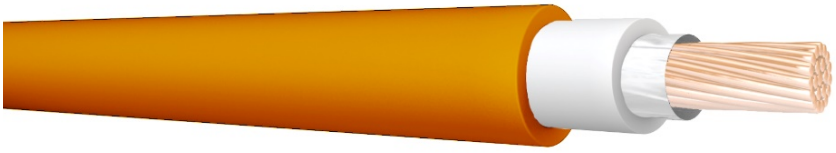
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FP300MI

Fire resistant LSOH power cable for fixed wiring



Fire resistant LSOH cable with flexible mineral insulation.

KEY APPLICATIONS

Prysmian FP300MI is designed for cabling essential safety circuits associated with fire detection, alarm and evacuation, emergency lighting, fire control and fire fighting systems used in a wide range of public access buildings and industrial complexes where continued circuit operation in the event of fire is required.

FEATURES AND BENEFITS

Robust LSOH mineral filled sheath

Plain annealed copper stranded conductor for flexibility

Dual layer insulation

Manufactured under ISO 9001 Quality management systems

STANDARDS

BS 6387	Fire Resistant Tests
IEC 60331-21	Fire Resistant Tests
BS EN 61034-2	Smoke emission
BS EN 60754-1	Corrosive and acid gas
BS EN 60332-1-2	Flame Propagation – Single Cable
BS EN 60332-3-24	Flame Propagation – Multiple (Bunched) Cables – Category C

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Crosslinked polymer
Material outer sheath	Low smoke zero halogen
Cable shape	Round

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APPLICATIONS PROPERTIES

Nominal voltage U0 [V]	600
Nominal voltage U [V]	1000
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: Single Core: White;

Sheath: Orange.

CURRENT RATINGS

Refer to table 4E1 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

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TECHNICAL DATA

Number of cores	Nominal cross section conductor [mm²]	Conductor category	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
1	4	Class 2 = Stranded	7.8	95	4.61
1	6	Class 2 = Stranded	8.4	120	3.08
1	10	Class 2 = Stranded	9.3	170	1.83
1	16	Class 2 = Stranded	10.4	230	1.15
1	25	Class 2 = Stranded	11.9	375	0.727
1	35	Class 2 = Stranded	12.6	450	0.524
1	50	Class 2 = Stranded	14.0	580	0.387
1	70	Class 2 = Stranded	16.0	800	0.268
1	95	Class 2 = Stranded	17.8	1065	0.193
1	120	Class 2 = Stranded	19.6	1360	0.153
1	150	Class 2 = Stranded	21.4	1615	0.124
1	185	Class 2 = Stranded	24.1	2000	0.0991
1	240	Class 2 = Stranded	27.6	2680	0.0754
1	300	Class 2 = Stranded	30.4	3270	0.0601
1	400	Class 2 = Stranded	35.0	4260	0.0470
1	500	Class 2 = Stranded	38.8	5345	0.0366
1	630	Class 2 = Stranded	43.0	6710	0.0283

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Certificate of Product Approval

Certificate Number: 077e Issue: 09

PRYSMIAN CABLES & 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:
FP300 single core cables
FP300MI single core cables

Standard(s) (see Appendix for details)

BS 6387:2013 (Category CWZ)
EN 60754-1:2014
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 BRE Global Ltd.	Karen Coull Certification Scheme Manager	7 March 2019 Date of Issue	6 April 2000 Date of First issue

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Appendix to Certificate No: 077e

PRYSMIAN CABLES & SYSTEMS LIMITED

Issue: 09

Product name				LPCB Ref. No.
FP300 single core cable				077e/01
Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1 (outer covering)	IEC 60331-21
1.0	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
1.5	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
2.5	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
4.0	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
6.0	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
10	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
16	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
25	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
35	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
50	One (1)	C (2,4)	<0.5% HCl	Complies (5)
70	One (1)	C (2,4)	<0.5% HCl	Complies (5)
95	One (1)	C (2,4)	<0.5% HCl	Complies (5)

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Product name				LPCB Ref. No.
FP300 single core cable				077e/01
Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1 (outer covering)	IEC 60331-21
120	One [1]	C [2,4]	<0.5% HCl	Complies [5]
150	One [1]	C [2,4]	<0.5% HCl	Complies [5]
185	One [1]	C [2,4]	<0.5% HCl	Complies [5]
240	One [1]	C [2,4]	<0.5% HCl	Complies [5]
300	One [1]	-	<0.5% HCl	Complies [5]
400	One [1]	-	<0.5% HCl	Complies [5]
500	One [1]	-	<0.5% HCl	Complies [5]
630	One [1]	-	<0.5% HCl	Complies [5]

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Issue: 09

Product name				LPCB Ref. No.
FP300MI single core cable				077e/02
Nominal csa of conductor (mm^2)	Core Construction	BS 6387	EN 60754-1 (outer covering)	IEC 60331-21
1.0	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
1.5	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
2.5	One (1)	CWZ (2,3)	<0.5% HCl	Complies (5)
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300	One [1]	-	<0.5% HCl	Complies [5]	
400	One [1]	-	<0.5% HCl	Complies [5]	
500	One [1]	-	<0.5% HCl	Complies [5]	
630	One [1]	-	<0.5% HCl	Complies [5]	

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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 requirement of BS 6387, testing for C, W and Z categories was conducted using a 20mm stainless steel conduit as the other metallic element.
4. To satisfy the requirement of BS 6387, testing for C category was conducted using a 38mm stainless steel conduit as the other metallic element.
5. The FP300 and FP300MI 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 voltage rating of 600V.

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