

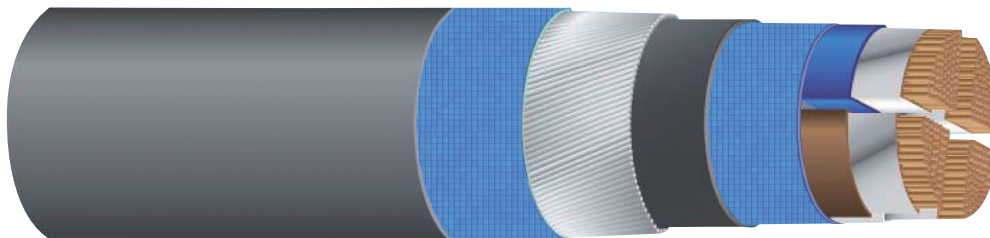
PRYSMIAN  
**FP 600s**



Certificate No 077n/01\*  
Certificate No 517c/01\*

**FIRE RESISTANT ARMoured POWER CABLE - BS 7846 F120 600/1000 V**

**ULTIMATE PROTECTION FOR ELECTRICAL EMERGENCY SYSTEMS**



### Conductor

Plain annealed copper stranded conductor meets the requirements of BS EN 60228 Class 2

### Insulation

Mineral ceramic (Mica) fire resistant tape. 90°C cross - linked insulation.

### Bedding

Extruded LSOH

### Armour

Single layer of galvanised steel wires.

### Sheath

Extruded LSOH suitable for outdoor installation with exposure to normal daylight UV

### Key Applications

FP600S is the ultimate fire resistant armoured cable suitable for use in essential emergency systems to retain circuit integrity in the event of fire. Power cable for all life safety and fire fighting systems.

- > Smoke barriers, control dampers, smoke curtains
- > Smoke and heat exhaust ventilation systems
- > Fire fighting and evacuation lift supplies
- > Extinguishing systems - sprinkler pumps, water mist and powder.
- > Wet riser pumps.

### British Standards

- > BS 7846 F120
- > BS 8491 120 minutes\*
- > BS 8519 Category 1, 2 and 3 power
- > London Underground S1085 Approved Products Register
- > BASEC approved
- > LPCB approved\*
- > BS EN 60754-1 (BS EN 502767-2-1\*)
- > BS EN 61034-2\*

### Core identification

HARMONISED CORE IDENTIFICATION:

- brown-blue
- ○ brown-black-grey
- ○ ○ blue-brown-black-grey
- ○ ○ ○ blue-brown-black-grey-green/yellow



**Temperature Range**  
-25 to +90°C



**Bending Radius**  
r=8D



**Mechanical Impact**  
High



**Flame Propagation**  
BS EN 60332-1-2  
BS EN 60332-3-24



**Flexibility**  
Rigid



**Halogen Free**  
BS EN 60754-1



**Low Smoke Emissions**  
BS EN 61034-2



**Fire Resistance**  
BS 7846 F120  
BS 8491 120 min

Nominal cross sectional area	Approximate overall diameter (D)	Approximate diameter under armour	Nominal diameter of armour wires	Approximate cable weight	Short circuit rating of conductor (1 sec)	Maximum conductor resistance at 20°C	Current rating DC or single phase AC clipped direct	Current rating DC or single phase AC Free air or perforated tray	Voltage drop DC	Volt drop single phase AC	Recommended accessories	
											Claw Cleat Ref No.	Brass Gland Ref No.
mm <sup>2</sup>	mm	mm	mm	kg/km	kA	ohms/km	Amps	Amps	mV/A/m	mV/A/m		

Two Core

4	21	14.8	1.25	800	0.57	4.61	49	52	12	12	370CG04	LSF25CW
6	21	14.7	1.25	850	0.86	3.08	62	66	7.9	7.9	370CG04	LSF25CW
10	23	17.2	1.25	1100	1.4	1.83	85	90	4.7	4.7	370CG05	LSF25CW
16	25	18.4	1.25	1250	2.2	1.15	110	115	2.9	2.9	370CG05	LSF25CW
25	27	21	1.25	1550	3.6	0.727	146	152	1.85	1.90	370CG06	KA493-S6
35	31	24	1.6	2100	5.0	0.524	180	188	1.35	1.35	370CG06	LSF32CW
50	30	23	1.6	2100	7.1	0.387	219	228	0.98	1.0	370CG06	LSF32CW
70	33	26	1.6	2600	10	0.268	279	291	0.67	0.69	370CG07	LSF40CW
95	36	27	2.0	3400	13.6	0.193	338	354	0.49	0.52	370CG07	LSF40CW
120	39	31	2.0	4100	17.2	0.153	392	410	0.39	0.42	370CG08	LSF50SCW
150	42	33	2.0	4800	21.4	0.124	451	472	0.31	0.35	370CG08	LSF50SCW
185	47	37	2.5	6100	26.5	0.0911	515	539	0.25	0.29	370CG09	LSF50CW
240	51	41	2.5	7500	34.3	0.0754	607	636	0.195	0.24	370CG09	LSF50CW
300	56	45	2.5	9000	42.9	0.0601	698	732	0.155	0.21	370CG10	LSF63CW
400	61	50	2.5	10900	57.2	0.0470	787	847	0.120	0.19	370CG11	LSF63CW

Nominal cross sectional area	Approximate overall diameter (D)	Approximate diameter under armour	Nominal diameter of armour wires	Approximate cable weight	Maximum conductor resistance at 20°C	Short circuit rating of conductor (1 sec)	Current rating three phase AC clipped direct	Current rating three phase AC Free air or perforated tray	Volt drop three phase AC	Recommended accessories	
										Claw Cleat Ref No.	Brass Gland Ref No.
mm <sup>2</sup>	mm	mm	mm	kg/km	ohms/km	kA	Amps	Amps	mV/A/m		

Three Core

4	22	15.7	1.25	910	4.61	0.57	42	44	10	370CG05	LSF25CW
6	21	15.0	1.25	860	3.08	0.86	53	56	6.8	370CG04	LSF25CW
10	25	18.7	1.25	1200	1.83	1.4	73	78	4.0	370CG05	LSF25CW
16	26	19.7	1.25	1400	1.15	2.2	94	99	2.5	370CG06	LSF25CW
25	30	23	1.6	2000	0.727	3.6	124	131	1.65	370CG06	LSF32CW
35	33	26	1.6	2500	0.524	5.0	154	162	1.15	370CG07	LSF32CW
50	33	26	1.6	2700	0.387	7.1	187	197	0.87	370CG07	LSF32CW
70	36	29	1.6	3400	0.268	10	238	251	0.60	370CG07	LSF40CW
95	41	32	2.0	4600	0.193	13.6	289	304	0.45	370CG08	LSF50SCW
120	44	35	2.0	5500	0.153	17.2	335	353	0.37	370CG08	LSF50SCW
150	49	39	2.5	6900	0.124	21.4	386	406	0.30	370CG09	LSF50CW
185	53	43	2.5	8200	0.0991	26.5	441	463	0.26	370CG09	LSF63CW
240	58	47	2.5	10300	0.0754	34.3	520	546	0.21	370CG11	LSF63CW
300	63	52	2.5	12300	0.0601	42.9	599	628	0.185	370CG12	LSF63CW
400	69	58	2.5	15100	0.0470	57.2	673	728	0.165	370CG13	LSF75CW

Nominal cross sectional area	Approximate overall diameter (D)	Approximate diameter under armour	Nominal diameter of armour wires	Approximate cable weight	Maximum conductor resistance at 20°C	Short circuit rating of conductor (1 sec)	Current rating three phase AC clipped direct	Current rating three phase AC Free air or perforated tray	Volt drop three phase AC	Recommended accessories	
										Claw Cleat Ref No.	Brass Gland Ref No.
mm <sup>2</sup>	mm	mm	mm	kg/km	ohms/km	kA	Amps	Amps	mV/A/m		

#### Four Core

4	21	15.3	1.25	860	4.61	0.57	42	44	10	370CG04	LSF25CW
6	23	16.4	1.25	1000	3.08	0.86	53	56	6.8	370CG05	LSF25CW
10	26	21.0	1.25	1400	1.83	1.4	73	78	4.0	370CG06	KA493-56
16	28	22.0	1.25	1650	1.15	2.2	94	99	2.5	370CG06	KA493-56
25	33	26	1.6	2400	0.727	3.6	124	131	1.65	370CG07	LSF32CW
35	36	29	1.6	3000	0.524	5.0	154	162	1.15	370CG07	LSF40CW
50	37	30	1.6	3300	0.387	7.1	187	197	0.87	370CG08	LSF40CW
70	41	32	2.0	4500	0.268	10	238	251	0.60	370CG08	LSF50SCW
95	45	36	2.0	5700	0.193	13.6	289	304	0.45	370CG08	LSF50SCW
120	50	40	2.5	7300	0.153	17.2	335	353	0.37	370CG09	LSF50CW
150	54	44	2.5	8600	0.124	21.4	386	406	0.30	370CG10	LSF63CW
185	59	49	2.5	10500	0.0991	26.5	441	463	0.26	370CG11	LSF63CW
240	65	54	2.5	13000	0.0754	34.3	520	546	0.21	370CG13	LSF63CW
300	70	59	2.5	15700	0.0601	42.9	599	628	0.185	370CG14	LSF75CW
400	79	66	3.15	20200	0.0470	57.2	673	728	0.165	370CG15	LSF85CW

#### Five Core

4	24	17.4	1.25	1050	4.61	0.57	42	44	10	370CG05	LSF25CW
6	24	18	1.25	1150	3.08	0.86	53	56	6.8	370CG05	LSF25CW
10	29	23	1.25	1650	1.83	1.4	73	78	4.0	370CG06	KA493-56
16	32	25	1.6	2100	1.15	2.2	94	99	2.5	370CG07	LSF32CW
25	35	28	1.6	2800	0.727	3.6	124	131	1.65	370CG07	LSF40CW
35	39	32	1.6	3300	0.524	5.0	154	162	1.15	370CG08	LSF40CW

No LPCB approval for 5 Core

#### Notes to tables

- > Circular conductor 4.0- 35mm<sup>2</sup>.
- > Shaped conductor 50mm<sup>2</sup> and above.
- > Current ratings in accordance with BS 7671/IET Wiring Regulations.
- > The tabulated ratings are based upon a 30°C ambient temperature and 90°C operating temperature.

#### Installation

- > Minimum recommended installation temperature 0°C.
- > Suitable for indoor and outdoor installations. Should be installed in accordance with BS 7671/IET Wiring Regulations or any other appropriate national regulations.
- > Suitable for direct burial, trough, tray, ladder or other installations requiring a robust armoured cable.

PRYSMIAN

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For further information please  
see our dedicated FP Cables website:  
[www.fpcables.co.uk](http://www.fpcables.co.uk)



Should you have any concerns about  
unsafe, non-approved or counterfeit  
cable, please contact the ACI

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