



PRYSMIAN
CABLES & SYSTEMS

FIRE RESISTANT CABLES

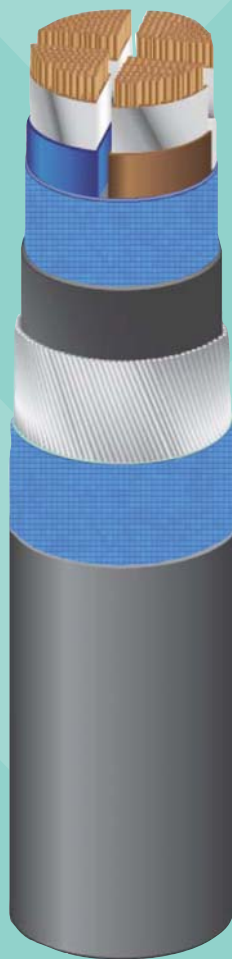


FP600S

FIRE RESISTANT CABLES

FP600S

Low Voltage (600/1000V)



Conductor

Insulation

Core Identification

Bedding

Armour

Sheath



Temperature Range
-20 to +90°C



Bending Radius
Fixed $r=8D$



Mechanical Impact
Very Good



Fire Performance
BS EN 60332-1-2
BS EN 50266-2-4



Flexibility
Rigid



Halogen Free
BS EN 50267-2-1



Low Smoke Emissions
BS EN 61034-2



Fire Resistance
BS 7346-6 120 min
BS 8491 120 min

'ENHANCED' FIRE RESISTANT CABLES



Certificate No 077n
Certificate No 517c



BS 7346-6 120 min

BS 8491 120 min

- > Plain annealed copper stranded shaped conductor complying with BS EN 60228 class 2.
- > **Primary insulation:**
Mineral ceramic (Mica/Glass) fire resistant tape.
- > **Secondary insulation:**
90°C cross-linked insulation.
- >
 - ● brown-blue
 - ● brown-black-grey
 - ● blue-brown-black-grey
- > Thermoplastic LSOH bedding.
- > Single layer of galvanised steel wires.
- > Robust thermoplastic LSOH sheath
Colour - Black.

Prysmian FP600S Fire Resistant Cable

Nominal cross sectional area	Approximate overall diameter	Approximate diameter under armour	Nominal diameter of armour wires	Approximate cable weight	Maximum conductor resistance at 20°C	Current Rating DC or single phase AC Clipped direct Amps	Current rating DC or single phase AC Free air Amps	Voltage drop DC	Volt drop single phase AC	Recommended accessories	
mm ²	mm	mm	mm	kg/km	ohms/km			mV/A/m	mV/A/m	Claw Cleat Ref No.	Brass Gland Ref No.

Two Core

10	21	16	1.25	800	1.83	85	90	4.7	4.7	370CG04	LSF25CW
16	23	17	1.25	1000	1.15	110	115	2.9	2.9	370CG05	LSF25CW
25	26	20	1.25	1300	0.727	146	152	1.85	1.90	370CG06	LSF25CW
35	30	23	1.6	1800	0.524	180	188	1.35	1.35	370CG06	LSF32CW
50*	31	24	1.6	2000	0.387	219	228	0.98	1.0	370CG06	LSF32CW
70*	33	26	1.6	2600	0.268	279	291	0.67	0.69	370CG07	LSF40CW

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

Three Core

10	23	17	1.25	1000	1.83	1.4	73	78	4.0	370CG05	LSF25CW
16	24	18	1.25	1200	1.15	2.2	94	99	2.5	370CG06	LSF25CW
25	29	22	1.6	1800	0.727	3.6	124	131	1.65	370CG06	LSF32CW
35	31	24	1.6	2100	0.524	5.0	154	162	1.15	370CG07	LSF32CW
50*	32	25	1.6	2600	0.387	7.1	187	197	0.87	370CG07	LSF40CW
70*	36	28	1.6	3300	0.268	10	238	251	0.6	370CG08	LSF40CW

Four Core

10	24	19	1.25	1200	1.83	1.4	73	78	4.0	370CG05	LSF25CW
16	26	20	1.25	1400	1.15	2.2	94	99	2.5	370CG06	LSF25CW
25	31	24	1.6	2100	0.727	3.6	124	131	1.65	370CG07	LSF32CW
35	34	27	1.6	2600	0.524	5.0	154	162	1.15	370CG07	LSF40CW
50*	36	29	1.6	3200	0.387	7.1	187	197	0.87	370CG08	LSF40CW
70*	41	32	2.0	4500	0.268	10	238	251	0.6	370CG08	LSF50sCW
95*	44	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*	55	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*	64	54	2.5	13000	0.0754	34.3	520	546	0.21	370CG12	LSF75CW
300*	70	59	2.5	15600	0.0601	42.9	599	628	0.185	370CG13	LSF75CW
400*	79	66	3.15	20000	0.047	57.2	673	728	0.165	370CG14	LSF85CW

Note* Shaped conductors.

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.

Correction factors for Ambient temperatures

Ambient Temperature °C	25	30	35	40	45	50	55	60
Rating 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
Single layer multicore on a perforated metal cable tray, vertical or horizontal	Touching	0.88	0.81	0.77	0.75	0.73	0.73	0.72	0.72

Note: Where the horizontal clearance between adjacent cables exceeds 2 cable diameters no correction factor need be applied.

Standard conditions of groupings as stated in BS7671 IEE Wiring Regs apply.

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