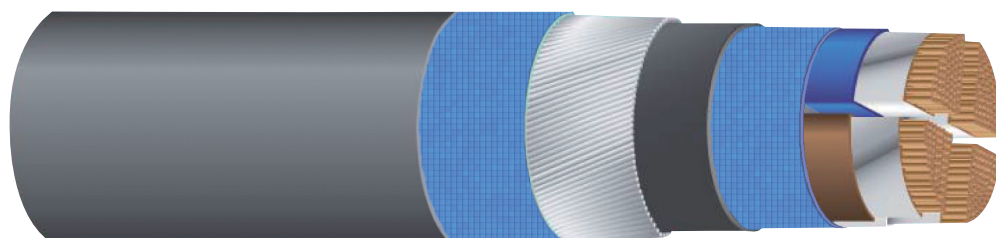


FP600S

ULTIMATE PROTECTION FOR ELECTRICAL EMERGENCY SYSTEMS



Certificate No 077n
Certificate No 517c/01



CABLE DESCRIPTION

Conductor

Plain annealed copper stranded circular (4-35 mm²) or shaped (50-400 mm²) conductor complying with BS EN 60228 Class 2.

Insulation

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

Bedding

Thermoplastic LSOH bedding compound to retain orientation of the cores and support the galvanised steel wire armour layer.

Armour

Single layer of galvanised steel wires.

Sheath

Robust thermoplastic LSOH sheath. Colour - black. Other colours to special order for minimum quantity.

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 and control 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

- > BS8519 Category 1, 2 and 3 power and control cable
- > BS8491 120 minutes
- > BS7846 F120
- > BASEC and LPCB approved
- > London Underground 1.085 Approved Products Register (Section 12)

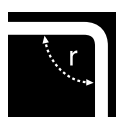
Core identification

HARMONISED CORE IDENTIFICATION:
 ○ brown-blue
 ○ brown-black-grey
 ○ blue-brown-black-grey

NON HARMONISED CORE IDENTIFICATION:
 ○ red-black
 ○ red-yellow-blue
 ○ black-red-yellow-blue
 Non harmonised colours to special order.



Temperature Range
-25 to +90°C



Bending Radius
Fixed
Circular conductor 6D
Shaped conductor 8D



Mechanical Impact
High



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



Flexibility
Rigid



Halogen Free
BS EN 50267-2-1



Low Smoke Emissions
BS EN 61034-2



Fire Resistance
BS 7846 F120
BS 8491 120 min

Correction factors for Ambient temperatures

See BS7671, table 4B1 - Rating factors (Ca) for ambient air temperatures other than 30°C

Correction factors for grouping of cables

See BS7671, table 4C1 - Rating factors for one circuit or one multicore cable or for a group of circuits, or a group of multicore cables.

See BS7671, table 4C4 - Rating factors for groups of more than one multicore cable, to be applied to reference current-carrying capacities for multicore cables in free air.

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 (1sec) of conductor	Current rating Three phase AC clipped direct	Current rating Three phase AC Free air or perforated tray	Volt drop Three phase AC	Recommended accessories	
mm²	mm	mm	mm	kg/km	ohms/km	kA	Amps	Amps	mV/A/m	Claw Cleat Ref No.	Brass Gland Ref No.
Three Core											
4	21	15	1.25	800	4.61	0.57	42	44	10	370CG04	LSF25CW
6	21	15	1.25	820	3.08	0.86	53	56	6.8	370CG04	LSF25CW
10	23	17	1.25	1050	1.83	1.4	73	78	4.0	370CG05	LSF25CW
16	24	19	1.25	1400	1.15	2.2	94	99	2.5	370CG05	LSF25CW
25	29	22	1.6	2000	0.727	3.6	124	131	1.65	370CG06	LSF32CW
35	31	24	1.6	2300	0.524	5.0	154	162	1.15	370CG06	LSF32CW
50	32	25	1.6	2800	0.387	7.1	187	197	0.87	370CG07	LSF32CW
70	36	29	1.6	3600	0.268	10	238	251	0.6	370CG07	LSF40CW
95	40	32	2.0	4500	0.193	13.6	289	304	0.45	370CG08	LSF50SCW
120	43	35	2.0	5400	0.153	17.2	335	353	0.37	370CG08	LSF50SCW
150	48	39	2.5	6900	0.124	21.4	386	406	0.30	370CG09	LSF50CW
185	52	43	2.5	8200	0.0991	26.5	441	463	0.26	370CG09	LSF63CW
240	57	47	2.5	10100	0.0754	34.3	520	456	0.21	370CG10	LSF63CW
300	62	52	2.5	12200	0.0601	42.9	599	628	0.185	370CG12	LSF63CW
400	69	58	2.5	15000	0.0470	57.2	673	728	0.165	370CG13	LSF75CW
Four Core											
4	21	15	1.25	800	4.61	0.57	42	44	10	370CG04	LSF25CW
6	23	17	1.25	950	3.08	0.86	53	56	6.8	370CG05	LSF25CW
10	24	19	1.25	1200	1.83	1.4	73	78	4.0	370CG05	LSF25CW
16	27	20	1.25	1600	1.15	2.2	94	99	2.5	370CG06	
25	32	24	1.6	2400	0.727	3.6	124	131	1.65	370CG07	LSF32CW
35	35	27	1.6	2800	0.524	5.0	154	162	1.15	370CG07	LSF40CW
50	36	29	1.6	3200	0.387	7.1	187	197	0.87	370CG07	LSF40CW
70	41	32	2.0	4500	0.268	10	238	251	0.64	370CG08	LSF50SCW
95	44	36	2.0	5700	0.193	13.6	289	304	0.45	370CG08	LSF50SCW
120	49	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	48	2.5	10500	0.0991	26.5	441	463	0.26	370CG11	LSF63CW
240	64	54	2.5	12900	0.0754	34.3	520	546	0.21	370CG12	LSF63CW
300	70	59	2.5	15500	0.0601	42.9	599	628	0.185	370CG14	LSF75CW
400	79	66	3.15	20100	0.0470	57.2	673	728	0.165	370CG15	LSH85CW

Circular conductor 4.0-35mm². Shaped conductor 50mm² and above. 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. For other ambient temperatures or where cables are grouped together, the following rating factors should be applied.

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	Current Rating DC or single phase AC Free Air or perforated tray Amps	Voltage drop DC	Volt drop single phase AC	Recommended accessories	
mm ²	mm	mm	mm	kg/km	ohms/km	Amps	Amps	mV/A/m	mV/A/m	Claw Cleat Ref No.	Brass Gland Ref No.
Two Core											
4	21	15	1.25	800	4.61	49	52	12	12	370CG04	LSF25CW
6	21	15	1.25	800	3.08	62	66	7.9	7.9	370CG04	LSF25CW
10	22	16	1.25	800	1.83	85	90	4.7	4.7	370CG05	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	
35	30	23	1.6	1800	0.524	180	188	1.35	1.35	370CG06	LSF32CW
50	31	24	1.6	2200	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	LSF32CW
95	35	27	2.0	3400	0.193	338	354	0.49	0.52	370CG07	LSF40CW
120	39	30	2.0	4100	0.153	392	410	0.39	0.42	370CG08	LSF50SCW
150	42	33	2.0	4700	0.124	451	472	0.31	0.35	370CG08	LSF50SCW
185	46	36	2.5	6100	0.0091	515	539	0.25	0.29	370CG09	LSF50CW
240	51	41	2.5	7500	0.0754	607	636	0.795	0.24	370CG09	LSF50CW
300	56	45	2.5	9000	0.0601	698	732	0.155	0.21	370CG10	LSF63CW
400	61	50	2.5	11000	0.0470	787	847	0.120	0.19	370CG11	LSF63CW

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 (1sec) of conductor	Current rating Three phase AC clipped direct	Current rating Three phase AC Free air or perforated tray	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.
Five Core											
4	22	17	1.25	900	4.61	0.57	42	44	10	370CG05	LSF25CW
6	24	18	1.25	1070	3.08	0.86	53	56	6.8	370CG05	LSF25CW
10	27	21	1.25	1390	1.83	1.4	73	78	4.0	370CG06	
16	30	23	1.6	1900	1.15	2.2	94	99	2.5	370CG06	LSF32CW
25	34	26	1.6	2500	0.727	3.6	124	131	1.65	370CG07	LSF40CW
35	37	29	1.6	3100	0.524	5.0	154	162	1.15	370CG07	LSF40CW

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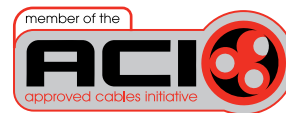
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Should you have any concerns about unsafe, non-approved or counterfeit cable, please contact the ACI

Tel: 020 8946 6978
Email: report@aci.org.uk

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