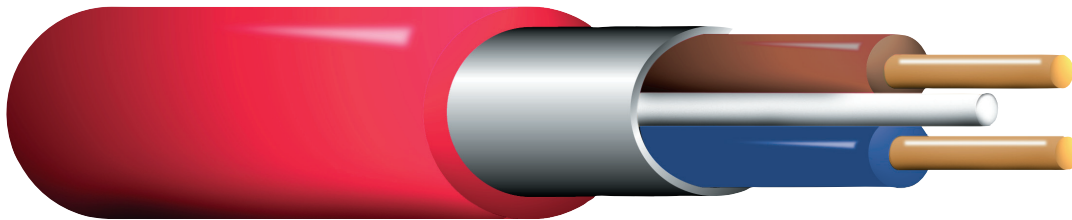


FP PLUS™

'ENHANCED' FIRE RESISTANT CABLE 300/500 V



CABLE DESCRIPTION

Conductor

Plain annealed copper. Solid (1.5 & 2.5 mm²) or stranded circular conductors (4.0 mm²) to meet the requirements of BS EN 60228 class 1 or class 2.

Insulation

High performance, damage resistant enhanced Insudite™ to meet BS EN 50363-5, Type E15. Including mica tape for 2c4mm² and all 3 & 4 core.

Overall metallic screen and CPC

Polyester backed laminated aluminium or copper tape bonded to outer sheath to provide overall screen. In contact with full sized, tinned annealed copper circuit protective conductor and laid-up with the cores to provide automatic screen earthing

Sheath

Robust thermoplastic low smoke, zero halogen and reduced flame propagation outer sheath. Standard colours white and red with bespoke colours available to special order. Suitable for outdoor installation with exposure to normal daylight UV.

Key Applications

- > Fire detection and fire alarm systems for buildings
- > Voice alarm systems and emergency voice communication
- > Emergency and escape route lighting
- > Control circuits for fire safety and fire fighting systems
- > Other essential service control circuits for 'enhanced' fire resistance

British Standards, Tests & Approvals

- > BS 7629-1 Enhanced 120
- > BS EN 50200 PH30, PH60, PH120
- > BS 8434-2 Flame, impact & water test for 'enhanced' cable
- > BS 5839-1, 6, 8 & 9 'enhanced' fire resisting cable
- > BS 5266-1 'enhanced' fire resisting cable
- > BS 8519 category 2 control cable
- > BASEC approved
- > LPCB approved (specific products & fire tests only)

Core identification

Harmonised - standard

- brown-blue
- ○ brown-black-grey
- ○ ○ blue-brown-black-grey

Non harmonised - to special order

- red-black
- ○ red-yellow-blue
- ○ ○ black-red-yellow-blue



Temperature Range
-20 to +70°C



Bending Radius
r=6D



Mechanical Impact
Medium



Fire Performance
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 EN 50200
PH30, PH60, PH120
BS 8434-2
BS 6387 CW2

Nominal cross sectional area mm ²	Conductor Construction no/mm	Approximate overall diameter mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C Ω/km	Current rating DC or single phase AC Enclosed Amps	Current rating DC or single phase AC Clipped direct Amps	Volt drop DC or single phase AC mV/A/m	Recommended accessories Colour - White or Red	
								LSOH [®] fixing clips	Nylon LSOH [®] gland

Two core

								UNEPNF03	
1.5	1/1.38	9.2	115	12.1	16.5	19.5	29	AP9	251/GL2520
2.5	1/1.78	11.5	180	7.41	23	27	18	AP11	252/GL2520
4.0*	7/0.85	12.2	235	4.6	30	36	11	AP11	252/GL2520

Three core

1.5	1/1.38	11.7	175	12.1	16.5	19.5	29	AP10	252/GL2520
2.5	1/1.78	12.7	230	7.41	23	27	18	AP11	251/GL2520
4.0*	7/0.85	13.0	290	4.6	30	36	11	AP13	252/GL2520

Four Core

1.5	1/1.38	12.5	210	12.1	16.5	19.5	29	AP9	251/GL2520
2.5	1/1.78	13.5	270	7.41	23	27	18	AP11	252/GL2520
4.0*	7/0.85	14.6	355	4.6	30	36	11	AP15	254

*Product FP PLUS FLEX

Notes to table

- > Recommended clip spacing 300 mm horizontal and 400mm vertical.
- > Minimum recommended installation temperature 0°C. Installation methods for current rating in accordance with BS7671/IET Wiring Regulations.
- > The tabulated ratings are based upon a 30°C ambient temperature and 70°C operating temperature. For other ambient temperatures or where cables are grouped together, appropriate de-rating factors should be applied.
- > De-rate by factor 0.8 when 4 cores are loaded

Correction factors for Ambient temperatures: Table 4B1

Table 4B1

Ambient Temperature°C	25	30	35	40	45	50
Rating factor	1.03	1.00	0.94	0.87	0.79	0.71

Correction factors for grouping of cables: Table 4C1

Table 4C1

Number of cables	2	3	4	5	6	7
Rating factor	0.80	0.70	0.65	0.60	0.57	0.54

Sales enquiries

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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



For further information please see our dedicated FP Cables website: www.fpcables.co.uk