

'Enhanced' Fire Resistant Cables

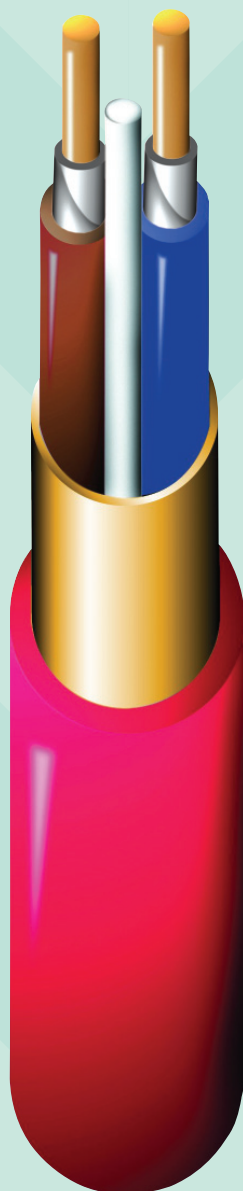
Low Voltage (300/500 V)

BS7629-1:2008

FP Plus™



Certificate no 077g



Key Applications

Conductor

Insulation

Screen

Core Identification

Sheath

- > Fire detection and fire alarm systems for buildings. FP PLUS™ is BASEC and LPCB approved in accordance with the requirements of BS5839-1:2002+A2:2008 Clause 26.2 for **enhanced** fire resisting cables.
- > Plain annealed copper solid conductor complying with BS EN 60228 class 1.
- > Cross-linked damage resistant insulation (Type EI5) over mineral ceramic (mica/glass) tape.
- > Laminated copper tape screen bonded to sheath and in contact with full size tinned annealed copper circuit protective conductor which provides automatic screen earthing.
- brown-blue
 - brown-black-grey
 - blue-brown-black-grey
- > Robust thermoplastic LSOH® sheath
Colour - White or Red. Other colours to special order
For external exposure the use of a white sheath is recommended



Temperature
Range
-20 to +70°C



Bending Radius
Fixed r=6D



Mechanical Impact
Medium



Fire Performance
BSEN60332-1-2
BSEN50266-2-4



Flexibility
Rigid



Halogen Free
BSEN50267-2-1



Low Smoke
Emissions
BSEN61034-2



Fire Resistant
BS6387 Category CWZ
BSEN50200 PH120
BS8434-2 120 min

FP PLUS™ Fire Resistant Cable

Cable Details

Nominal cross sectional area	Conceptual construction	Mean overall diameter	Approximate cable weight	Maximum conductor resistance at 20°C	Current rating DC or single phase AC Enclosed	Current rating DC or single phase AC Clipped direct	Volt drop DC or single phase AC	Recommended Accessories	
mm ²	no./mm	mm	kg/km	ohms/km	Amps	Amps	mV/A/m	LSOH® fixing clips ¹	Nylon LSOH® gland ²
Two Core									
1.0	1/1.13	8.5	110	18.1	13	15	44	AP8	251/GL2520
Three Core									
1.0	1/1.13	9.0	125	18.1	13	15	44	AP9	251/GL2520
1.5	1/1.38	10.0	150	12.1	16.5	19.5	29	AP10	251/GL2520
Four Core									
1.0	1/1.13	10.3	160	18.1	13	15	44	AP10	252/GL2520
1.5	1/1.38	11.0	190	12.1	16.5	19.5	29	AP11	252/GL2520

¹ Recommended clip spacing 300mm horizontal and 400mm vertical

² Brass glands may be used as an alternative

Minimum recommended installation temperature 0°C

Installation methods for current rating in accordance with BS7671/IEE 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, the appropriate rating factors should be applied.

Temperature ratings factor

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 groupings

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