PRYSMIAN
CABLES & SYSTEMS

FIRE RESISTANT CABLES

FP PLUS™

New Generation

Now with enhanced
Insudite™ insulation

`ENHANCED´
FIRE RESISTANT CABLES

FP PLUS™
BS7629-1:2008

Certificate No 077g/02

FP PLUS™

> The new generation of FP PLUS™ is a highly durable and dressable, easy to terminate and install fire resistant cable, using an enhanced variant of the unique Insudite™ damage resistant insulation system. It brings to the market for the first time an ***enhanced*** fire alarm cable with the unmatched combination of rigidity and ease of bending associated with the market leading FP200 Gold® cable.

New generation FP PLUS™ sets previously unobtainable levels in ease of installation for an ***enhanced*** cable whilst maintaining full compliance with all the necessary test requirements. Approved for fire detection and fire alarm critical signal paths to BS5839-1:2002+A2:2008 and voice alarm systems to BS5839-8:2008 in enhanced application areas and emergency lighting systems to BS5266-1:2005.

APPROVALS

> In addition to approvals to BS7629-1 and BS6387 Category CWZ, FP PLUS™ has received BASEC and LPCB approval to BS5839-1:2002 for ***enhanced*** applications. This includes approval to BS EN 50200 Class PH120 and the new integrated fire, shock and water test BS8434-2 for 120 minutes. All Prysmian FP PLUS™ cables are manufactured under an ISO 9001 Quality System certified by BASEC and LPCB.

DATA CAPABILITY

> FP PLUS™ has excellent data/signal transmission characteristics making it ideal for voice alarm, addressable and networked systems.

INSTALLATION

> In accordance with the new BS5839-1 and BS5266-1 requirements, cables must be supported by a fixing that can withstand the same fire conditions as the cable. To meet this requirement the use of Prysmian AP LSOH® coated metal P-clips or the new FP Firefix™ rapid fixing system is recommended. FP PLUS™ should be installed in accordance with BS7671/IEE Wiring Regulations and/or any other appropriate national regulations or codes. It is suitable for indoor and outdoor installation in suitably protected environments and particularly appropriate for surface wiring, direct burial in plaster, tray or other installations requiring a dressable product.

CABLE CHARACTERISTICS

Temperature Range
-20 to +70°C

Bending Radius
Fixed r=6D

Mechanical Impact
Medium

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 6387 Category CWZ
BS EN 50200 PH120
BS 8434-2 120 min

PRYSMIAN CABLES & SYSTEMS

FIRE RESISTANT CABLES 300/500V

KEY APPLICATIONS

> Fire detection and fire alarm systems for buildings
> Voice alarm systems
> Emergency lighting
> Other essential service circuits

CABLE DESCRIPTION

CONDUCTOR

Plain annealed copper solid circular conductor complying with BS EN 60228 class 1.

INSULATION

High performance damage resistant enhanced Insudite™.
British Standard Type EI5.

CORE IDENTIFICATION

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

SCREEN/CPC

Laminated aluminium tape screen bonded to sheath and in contact with full size tinned annealed copper circuit protective conductor which provides automatic screen earthing.

SHEATH

Robust thermoplastic enhanced LSOH sheath;
Colour - White or Red. Other colours to special order.
For external exposure the use of a white sheath is recommended.

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 Colour - White or Red		
								[1] LSOH® fixing clips	[2] Nylon LSOH® gland	FP Firefix™ fixing clips
mm²	no./mm	mm	kg/km	ohms/km	Amps	Amps	mV/A/m			
Two core										
1.5	1/1.38	9.2	115	12.1	16.5	19.5	29	AP9	251/GL2520	UFPNF04
2.5	1/1.78	11.5	176	7.4	23	27	18	AP11	252/GL2520	-

Notes to table

[1] Recommended clip spacing 300 mm 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, 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

Rating 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

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

www.prysmian.co.uk

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