



FIRE RESISTANT CABLES



FP200 GOLD®

FIRE RESISTANT CABLES

FP200 GOLD® BS7629-1:2008



Certificate No 077f
Certificate No 077k

FP200 GOLD®



APPROVALS

DATA CAPABILITY

INSTALLATION

- > The original highly durable and dressable, easy to terminate and install fire resistant cable, using the unique Insudite™ damage resistant insulation system. 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 'standard' application areas, and emergency lighting systems to BS5266-1:2005.

The changes to cable test methods and requirements first introduced by BS5839-1:2002+A2:2008 "Fire detection and fire alarm systems for buildings - Part 1: Code of practice for system design, installation, commissioning and maintenance" mean that fire resistant cables must now be approved against new test requirements.

- > In addition to approvals to BS7629-1 and BS6387 Category CWZ, FP200 Gold® has received BASEC and LPCB approval to BS5839-1:2002 for 'standard' applications. This includes approval to BS EN 50200 Class PH30 and the new integrated fire, shock and water test BS8434-1 for 30 minutes. FP200 Gold® is also approved to BS EN 50200 Class PH60 as required by BS5266-1:2005.

All Prysmian FP200Gold® cables are manufactured under an ISO 9001 Quality System certified by BASEC and LPCB.

- > FP200 Gold® has excellent data/signal transmission characteristics making it ideal for voice alarm, addressable and networked systems.
- > In accordance with 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.

FP200Gold 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
BS6387 Category CWZ
BS EN 50200 PH30 & PH60
BS EN 50200 Annex E

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 (1.0 – 2.5 mm²) or stranded (4.0 mm²) circular conductor complying with BS EN 60228 class 1 or class 2.

INSULATION

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

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.

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 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 mm ²	Conceptual Construction no./mm	Mean overall diameter mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C ohms/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		
								¹ LSOH® fixing clips	² Nylon LSOH® gland	FP Firefix™ fixing clips
Two core										
1.0 ³	1/1.13	8.0	78	18.1	13	15	44	AP7	251/GL2520	UFPNF02
1.5	1/1.38	8.1	93	12.1	16.5	19.5	29	AP7	251/GL2520	UFPNF01* UFPNF02
2.5	1/1.78	9.5	140	7.4	23	27	18	AP9	251/GL2520	-
4.0	7/0.85	11.6	195	4.6	30	36	11	AP11	252/GL2520	-
Three core										
1.0 ³	1/1.13	8.2	88	18.1	13	15	44	AP7	251/GL2520	UFPNF02
1.5	1/1.38	8.4	116	12.1	16.5	19.5	29	AP8	251/GL2520	UFPNF04
2.5	1/1.78	10.4	180	7.4	23	27	18	AP10	252/GL2520	-
4.0	7/0.85	12.3	248	4.6	30	36	11	AP12	252	-
Four Core										
1.0 ³	1/1.13	8.5	107	18.1	13	15	44	AP8	251/GL2520	UFPNF04
1.5	1/1.38	10	143	12.1	16.5	19.5	29	AP9	251/GL2520	-
2.5	1/1.78	11.9	225	7.4	23	27	18	AP11	252/GL2520	-
4.0	7/0.85	13.5	310	4.6	30	36	11	AP13	254	-

Notes to table

1 Recommended clip spacing 300 mm horizontal and 400mm vertical. 2 Brass glands may be used as an alternative. 3 BS5266-1:2005 clause 9.2.3 states a minimum cross-sectional area of conductor of 1.5mm²

FP200 Gold® is also available in multi-core versions (7,12 & 19 core)

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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FP200 Gold[®] Multicore

BS7629-1:2008

FIRE RESISTANT CABLES



Certificate No 077a
Certificate No 077b



Key Applications

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

Conductor

- > Plain annealed copper solid (1.0 - 1.5 mm²) or stranded (2.5 mm²) circular conductor complying with BS EN 60228 class 1 or class 2.

Insulation

- > High Performance damage resistant Insudite™. British Standard Type E15.

Core Identification

- > 7-12-19 cores white with printed number.

Screen

- > Laminated aluminium tape screen bonded to sheath and in contact with tinned annealed copper 0.5mm² drain wire which provides automatic screen earthing.

Sheath

- > 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
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 PH30
BS EN 50200 Annex E

Prysmian FP200 Gold[®] Multicore Cable

Nominal cross sectional area mm	Conceptual construction no./mm	Mean overall diameter mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C ohms/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	
								¹ LSOH [®] Fixing Clips	² Nylon LSOH Gland
Seven core									
1.0	1/1.13	12.1	196	18.1	13*	15*	44	AP12	252
1.5	1/1.38	13.3	249	12.1	16.5*	19.5*	29	AP13	252
2.5	7/0.67	16.3	387	7.4	23*	27*	18	AP16	254
Twelve core									
1.5	1/1.38	17.5	399	12.1	16.5	19.5*	29	AP18	254
2.5	7/0.67	21.7	637	7.4	23*	27*	18	AP22	255
Nineteen core									
1.5	1/1.38	20.5	588	12.1	16.5	19.5*	29	AP20	255
2.5 ³	7/0.67	25.6	949	7.4	23*	27*	18	AP25	-

Notes to table

¹ Recommended clip spacing 300 mm and 400 mm vertical.

² Brass gland may be used as an alternative.

³ This size is not included in the latest (2008) edition of BS7629-1 and is therefore manufactured to BS7629-1:1997

Installation methods for current rating in accordance with BS7671/IEE Wiring Regulations.

Minimum recommended installation temperature 0°C.

*The tabulated rating is as a two core and may be used where its number of cores carrying current does not exceed the square root of the total number of cores.

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 following rating factors should be applied.

Temperature rating factors									
Ambient Temperature °C	25	30	35	40	45	50	55	60	
Rating factor	1.03	1.00	0.94	0.87	0.79	0.71	0.61	0.50	
Rating Factors for Grouping									
Number of circuits	2	3	4	5	6	7	8	9	
Rating factor	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	