

FIRE RESISTANT CABLES



FP200 GOLD[®]

FIRE RESISTANT CABLES

FP200 GOLD® BS7629-1:2008

FP200 GOLD®



APPROVALS

DATA CAPABILITY

INSTALLATION



Certificate No 077f
Certificate No 077k



- > 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 BS5266-1:2011.

The changes to cable test methods and requirements first introduced by BS5839-1:2002 PH30, PH60 and PH120 mean fire resistant cables are now approved to new test requirements.

- > In addition to approvals to BS7629-1 and BS6387 Category CWZ, FP200 Gold' has received BSEC and LPCB approval to BS5839-1:2002 for 'standard' applications. This includes approval to BS EN 50200 Class PH30, PH60 and PH120 and the integrated fire, shock and water test BS EN 50200 Annex E for 30 minutes.

All Prysmian FP200Gold' cables are manufactured in the UK under an ISO 9001 Quality System certified by BSEC and LPCB.

FP200 Gold' meets the requirements of IS EN 50200:2006 PH120 classification as required by IS 3217:2008, and also the requirements of IS EN 50200 Annex E.2 for 30 minutes Standard classification as required by IS 3218:2009/ AC:2010

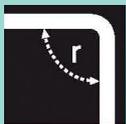
- > FP200 Gold' has excellent data/signal transmission characteristics making it ideal for voice alarm, addressable and networked systems.
- > In accordance with BS5839-1 and BS5266-1 requirements, cables must be supported by a fixing that can withstand the same fire conditions as the cable. To meet this requirement the use of Prysmian AP LSOH' coated metal P-clips or the new FP Firefix™ rapid fixing system is recommended.

FP200 Gold' should be installed in accordance with BS7671/IET Wiring Regulations and/or other appropriate regulations or codes. For outdoor installation use white sheathed cable, red sheath requires additional suitable UV protection. Ideal for surface, tray, direct burial in plaster or other methods that benefit from 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 60332-3-21



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 & PH120
BS EN 50200 Annex E (30 mins)

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.

| Conceptual Construction | Mean overall diameter | Approximate cable weight | Maximum conductor resistance at 20°C | Current rating DC or single phase AC | Current rating DC or single phase AC | Volt drop DC or single phase AC | Recommended accessories Colour - White or Red | | | |
|-------------------------|-----------------------|--------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------|---|---------------------|------------|---|
| | | | | | | | Enclosed Amps | Clipped direct Amps | mV/A/m | ¹ LSOH ¹ 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 BS5266-1:2011 clause 8.2.7 states a minimum cross-sectional area of conductor of 1.5mm²

FP200 Gold¹ 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

* Single clip

| 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 |

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

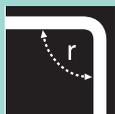
- > Laminated aluminium tape screen bonded to sheath and in contact with tinned annealed copper 0.5mm² drain wire which provides automatic screen earthing.

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 | |



A brand of the

Prysmian
Group

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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



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