



**FIRE RESISTANT CABLES**



**FP200 GOLD®**

# FIRE RESISTANT CABLES

## FP200 GOLD® BS7629-1

### 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 in BS5839-1:2002 "standard" application areas, voice alarm systems to BS5839-8:1998 (Amd 2006) and emergency lighting systems to BS5266-1:2005.

The changes to cable test methods and requirements first introduced by BS5839-1:2002 "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 BSEC and LPCB approval to BS5839-1:2002 for 'standard' applications. This includes approval to EN50200 Class PH30 and the new integrated fire, shock and water test BS8434-1 for 30 minutes. FP200 Gold® is also approved to EN 50200 Class PH60 as required by BS5266-1:2005. All Prysmian FP200Gold are manufactured under an ISO 9001 Quality System certified by BSEC and LPCB.
- > FP200 Gold® has excellent data/signal transmission characteristics making it ideal for voice alarm, addressable and networked systems.
- > 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.

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 +70C



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  
EN50200 PH30 & PH60  
BS8434-1 30min

# 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 mm<sup>2</sup>) or stranded (4.0 mm<sup>2</sup>) circular conductor complying with B6360 class 1 or class 2.

### INSULATION

High performance damage resistant Insudite™. British Standard Type E15.

## 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

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<br>mm <sup>2</sup> | Conceptual Construction<br>no./mm | Mean overall diameter<br>mm | Approximate cable weight<br>kg/km | Maximum conductor resistance at 20°C<br>ohms/km | Current rating DC or single phase AC<br>Enclosed Amps | Current rating DC or single phase AC<br>Clipped direct Amps | Volt drop DC or single phase AC<br>mV/A/m | Recommended accessories<br>Colour - White or Red |  |                          |
|---|-----------------------------------|-----------------------------|-----------------------------------|---|---|---|---|--|--|--------------------------|
|   |                                   |                             |                                   |   |   |   |   | <sup>1</sup> LSOH <sup>®</sup> fixing clips      | <sup>2</sup> Nylon LSOH <sup>®</sup> gland | FP Firefix™ fixing clips |

### Two core

|     |        |      |     |      |      |      |    |      |            |                     |
|-----|--------|------|-----|------|------|------|----|------|------------|---------------------|
| 1.0 | 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*<br>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 | 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 | 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.

\* Single clip

FP200 Gold<sup>®</sup> 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 |

**UK Sales enquiries**

Tel: 0845 767 8345

Fax: 023 8029 5465

**UK Technical helpline**

Tel: 0845 767 8345

Fax: 023 8029 5002

**Prysmian Cables & Systems Limited**

Chickenhall Lane

Eastleigh

Hampshire

SO50 6YU

United Kingdom

For further information please see

our dedicated FP website:

[www.fpcables.co.uk](http://www.fpcables.co.uk)

[www.prysmian.co.uk](http://www.prysmian.co.uk)

member of  
**voltimum**  
.co.uk

**Overseas Sales enquiries**

Tel: +44 23 8029 5481

Fax: +44 23 8029 5465

**Overseas Technical helpline**

Tel: +44 23 8029 5481

Fax: +44 23 8029 5002

**Information hotline**

Tel: +44 (0) 23 8029 5029

Fax: +44 (0) 23 8029 5437

[cables.marketing.uk@prysmian.com](mailto:cables.marketing.uk@prysmian.com)