

## FP PLUS™



BS7629-1

BS5839-1:2002

## CABLE CHARACTERISTICS



Temperature  
Range  
-20 to +70°C



Bending Radius  
Fixed r=8D



Mechanical Impact  
Medium



Fire Performance  
BSEN50265-2-1  
BSEN50266-2-4



Flexibility  
Rigid



Halogen Free  
BSEN50267-2-1



Low Smoke Emissions  
BSEN50268-2



Fire Resistant  
BS6387 Category CWZ  
EN50200 PH120  
BS8434-2 120min

## KEY APPLICATIONS

Fire detection and fire alarm systems for buildings. FP PLUS™ is BASEC and LPCB approved in accordance with the requirements of BS5839-1:2002 Clause 26.2 for **enhanced** fire resisting cables.

## CABLE DESCRIPTION

## CONDUCTOR

Plain annealed copper solid conductor complying with BS6360 class 1.

## INSULATION

Cross-linked damage resistant insulation (Type EI5).

## Core identification:

- brown-blue
- ○ brown-black-grey
- ○ ○ blue-brown-black-grey

## SCREEN

Laminated copper tape screen bonded to sheath and in contact with full size tinned annealed copper circuit protective conductor.

## SHEATH

Robust thermoplastic LSOH sheath

Colour - Red

Other colours to special order

For external exposure the use of black or 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         |                                |
|-------------------------------------------------|-----------------------------------|-----------------------------|-----------------------------------|-------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------|---------------------------------|--------------------------------|
|                                                 |                                   |                             |                                   |                                                 |                                                       |                                                             |                                           | LSOH® fixing clips <sup>1</sup> | Nylon LSOH® gland <sup>2</sup> |

## Two core

|     |        |      |     |      |      |      |    |      |            |
|-----|--------|------|-----|------|------|------|----|------|------------|
| 1.0 | 1/1.13 | 8.5  | 110 | 18.1 | 13   | 15   | 44 | AP8  | 251/GL2520 |
| 1.5 | 1/1.38 | 9.4  | 125 | 12.1 | 16.5 | 19.5 | 29 | AP9  | 251/GL2520 |
| 2.5 | 1/1.78 | 11.0 | 170 | 7.4  | 23   | 27   | 18 | AP10 | 252/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 |
| 2.5 | 1/1.78 | 11.0 | 210 | 7.4  | 23   | 27   | 18 | AP11 | 252/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 |
| 2.5 | 1/1.78 | 12.6 | 270 | 7.4  | 23   | 27   | 18 | AP12 | 252        |

<sup>1</sup> Recommended clip spacing 300mm horizontal and 400mm vertical

<sup>2</sup> 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.