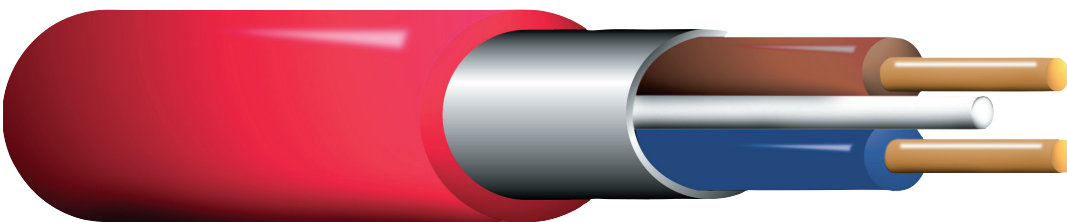


PRYSMIAN
FP PLUS



'ENHANCED' FIRE RESISTANT CABLE 300/500 V



Conductor

Plain annealed copper. Solid (1.5 & 2.5 mm²) or stranded circular conductors (4.0 mm²) to meet the requirements of BS EN 60228 class 1 or class 2.

Insulation

High performance, damage resistant enhanced Insudite™ to meet BS EN 50363-5, Type EI5. Including mica tape for 2c4mm² and all 3 & 4 core.

Overall metallic screen and CPC

Polyester backed laminated aluminium or copper tape bonded to outer sheath to provide overall screen. In contact with full sized, tinned annealed copper circuit protective conductor and laid-up with the cores to provide automatic screen earthing

Sheath

Robust thermoplastic low smoke, zero halogen and reduced flame propagation outer sheath. Standard colours white and red with bespoke colours available to special order. Suitable for outdoor installation with exposure to normal daylight UV.

Key Applications

- > Fire detection and fire alarm systems for buildings
- > Voice alarm systems and emergency voice communication
- > Emergency and escape lighting
- > Control circuits for fire safety and fire fighting systems
- > Other essential service control circuits for 'enhanced' fire resistance

British Standards, Tests & Approvals

- > BS 7629-1 Enhanced 120*
- > BS EN 50200 PH30, PH60, PH120*
- > BS 8434-2 Flame, impact & water test for 'enhanced' cable*
- > BS 5839-1, 6, 8 & 9 'enhanced' fire resisting cable*
- > BS 5266-1 'enhanced' fire resisting cable
- > BS 8519 category 2 control cable
- > BASEC approved
- > LPCB approved*
- > BS 6387 CWZ*

Core identification

Harmonised - standard

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

Non harmonised – to special order

- ○ red-black
- ○ red-yellow-blue
- ○ black-red-yellow-blue



Temperature Range
-20 to +70°C



Bending Radius
r=6D



Mechanical Impact
Medium



Fire Performance
BS EN 60332-1-2



Flexibility
Rigid



Halogen Free
BS EN 60754-1



Low Smoke Emissions
BS EN 61034-2



Fire resistance
BS EN 50200
PH30, PH60, PH120
BS 8434-2
BS 6387 CW2

| Nominal cross sectional area mm ² | Conductor Construction no/mm | Approximate overall diameter mm | Approximate cable weight kg/km | Maximum conductor resistance at 20°C Ω/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 | |
|---|---------------------------------|------------------------------------|-----------------------------------|--|---|---|---|--|-------------------------------|
| | | | | | | | | LSOH [®] fixing clips | Nylon LSOH [®] gland |

Two core

| | | | | | | | | | |
|------|--------|------|-----|------|------|------|----|------|------------|
| 1.5 | 1/1.38 | 9.2 | 115 | 12.1 | 16.5 | 19.5 | 29 | AP9 | 251/GL2520 |
| 2.5 | 1/1.78 | 11.5 | 180 | 7.41 | 23 | 27 | 18 | AP11 | 252/GL2520 |
| 4.0* | 7/0.85 | 12.2 | 235 | 4.6 | 30 | 36 | 11 | AP12 | 252 |

Three core

| | | | | | | | | | |
|------|--------|------|-----|------|------|------|----|------|------------|
| 1.5 | 1/1.38 | 11.7 | 175 | 12.2 | 16.5 | 19.5 | 29 | AP11 | 252/GL2520 |
| 2.5 | 1/1.78 | 12.7 | 230 | 7.41 | 23 | 27 | 18 | AP12 | 252 |
| 4.0* | 7/0.85 | 13.0 | 290 | 4.6 | 30 | 36 | 11 | AP13 | 252 |

Four Core

| | | | | | | | | | |
|------|--------|------|-----|------|------|------|----|------|-----|
| 1.5 | 1/1.38 | 12.5 | 210 | 12.2 | 16.5 | 19.5 | 29 | AP12 | 252 |
| 2.5 | 1/1.78 | 13.5 | 270 | 7.41 | 23 | 27 | 18 | AP13 | 254 |
| 4.0* | 7/0.85 | 14.7 | 355 | 4.6 | 30 | 36 | 11 | AP14 | 254 |

*Product FP PLUS FLEX

Notes to table

- > Recommended clip spacing 300 mm horizontal and 400mm vertical.
- > Minimum recommended installation temperature 0°C. Installation methods for current rating in accordance with BS7671/IET 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 de-rating factors should be applied.
- > De-rate by factor 0.8 when 4 cores are loaded

Correction factors for Ambient temperatures: Table 4B1

| Ambient Temperature°C | 25 | 30 | 35 | 40 | 45 | 50 |
|-----------------------|------|------|------|------|------|------|
| Rating factor | 1.03 | 1.00 | 0.94 | 0.87 | 0.79 | 0.71 |

Correction factors for grouping of cables: Table 4C1

| Number of cables | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------|------|------|------|------|------|------|
| Rating factor | 0.80 | 0.70 | 0.65 | 0.60 | 0.57 | 0.54 |

Sales enquiries
Tel: 0845 767 8345
Fax: 023 8029 5465

Overseas sales enquiries
Tel: +44 (0) 23 8029 5481
Fax: +44 (0) 23 8029 5465

UK Technical helpline
Tel: 0845 767 8345

Overseas technical
Tel: +44 (0) 23 8029 5481

Prysmian Cables & Systems Limited
Chickenhall Lane
Eastleigh
Hampshire
SO50 6YU
United Kingdom
www.whyprysmian.co.uk

Information Hotline
Tel: +44 (0) 23 8029 5029
Fax: +44 (0) 23 8029 5437



Should you have any concerns about unsafe, non-approved or counterfeit cable, please contact the ACI



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

Tel: 020 8946 6978
Email: report@aci.org.uk



All sizes and values without tolerances are reference values. Specifications are for products afterwards may give different results. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part without written consent of Prysmian Group. Prysmian Group reserves the right to amend this specification without prior notice.