

FP PLUS®

Fire Resistant Cable. BS 7629-1. 300/500 V





Prysmian FP PLUS is the **'Enhanced'**, hard skin, dressable fire resistant cable most commonly needed for fire alarm and emergency lighting circuits

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.

FEATURES AND BENEFITS

- Fully screened
- Full size CPC in direct contact with screen
- Tough Insudite® insulation compliant with EI5 to BS EN 50363-5
- Low Smoke, Zero Halogen (LSOH®) sheath
- Easy termination
- BS 8519 "Control" Category 2, Code of Practice Life Safety and Firefighting
- BS 5839-1 "Enhanced", Code of Practice Fire Alarms
- BS 5266-1 "Enhanced", Code of Practice Emergency Lighting
- Designed to meet the requirements of London Underground LUL S1085
- Manufactured under ISO 9001 Quality management systems

ADDITIONAL TECHNICAL SUPPORT

- FAQ's- uk.prysmian.com/technical-area/faqs
- Technical email tech.info@prysmian.com
- Live Chat uk.prysmian.com/technical-area
- Technical hotline: 02380 295222

STANDARDS



BS 7629-1 - Enhanced 120 BS EN 50200 - 30 minutes BS EN 50200 - 60 minutes BS EN 50200 - 120 minutes BS 8434-2 BS 6387 Category CWZ BS EN 60332-1-2 BS EN 60332-1-2 BS EN 61034-2 BS EN 60754-1 GB00_FPPLUS_20250717 Construction Standard Fire Resistant Test - Flame & Shock - 30 Minutes Fire Resistant Test - Flame & Shock - 60 Minutes Fire Resistant Test - Flame & Shock - 120 Minutes Fire Resistant Test - Flame, Shock & Water - 120 Minutes Fire Resistant Tests Flame Propagation - Single Cable Smoke emission Corrosive and acid gas



CONSTRUCTION

Conductor material Conductor surface Core insulation material Screen construction Screen Screen material Material outer sheath Cable shape

APPLICATIONS PROPERTIES

| Nominal voltage U0 [V] | 300 |
|------------------------------------|------------------------------------|
| Nominal voltage U [V] | 500 |
| Flame retardant | In accordance with BS EN 60332-1-2 |
| Halogen free | Yes |
| Low smoke | Yes |
| Max. conductor temperature [°C] | 70 |
| Min. Operation temperature [°C] | -25 |
| UV resistant | Yes |
| Outdoor installation | Yes |
| Min. Installation temperature [°C] | 0 |
| Max. Installation temperature [°C] | 60 |
| Bending radius (rule) | 6D |

Copper

Crosslinked polymer

Low smoke zero halogen

Metallised foil

Aluminium

Bare

Yes

Round

COLOURS

Insulation: Two Cores: Brown, Blue; Three Cores: Brown, Black, Grey; Four Cores: Blue, Brown, Black, Grey; Sheath: Red or White

CURRENT RATINGS

Refer to table 4D2 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

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TECHNICAL DATA

| Number of cores | Nominal cross section conductor [mm²] | Conductor category | Colour outer sheath | Nominal cross section of protective conductor [mm ²] | Nominal outer diameter [mm] | Cable weight [kg/km] | Conductor resistance at 20° C [Ohm/km] | Embodied Carbon [CO2e kg/km] |
|--------------------|---|-----------------------|---------------------------|---|--------------------------------------|----------------------------|---|---------------------------------------|
| 2 | 1.5 | Class 1 = solid | Red | 1.5 | 9.2 | 115 | 12.1 | 465 |
| 2 | 2.5 | Class 1 = solid | Red | 2.5 | 11.5 | 175 | 7.41 | 685 |
| 3 | 1.5 | Class 1 = solid | Red | 1.5 | 11.7 | 175 | 12.1 | 539 |
| 3 | 2.5 | Class 1 = solid | Red | 2.5 | 12.7 | 225 | 7.41 | 1,326 |
| 4 | 1.5 | Class 1 = solid | Red | 1.5 | 12.5 | 210 | 12.1 | 598 |
| 4 | 2.5 | Class 1 = solid | Red | 2.5 | 13.5 | 270 | 7.41 | 1,676 |

*The embodied carbon figure is taken from a single product in the range, for more information on how we calculate our embodied carbon figure visit here:<u>https://uk.prysmiangroup.com/embodied-carbon</u>