

FP PLUS FLEX

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



Prysmian FP PLUS FLEX is the 'Enhanced', hard skin, dressable original 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
- 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
- Manufactured under ISO 9001 Quality management systems
- For 2, 3 and 4 core 1.5mm² & 2.5mm² cables use FP PLUS - See here [FP PLUS® | Prysmian Group](#)

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 - PH30

BS EN 50200 - PH60

BS EN 50200 - PH120

BS 8434-2

BS 6387 Category CWZ

BS EN 60332-1-2

BS EN 61034-2

BS EN 60754-1

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 | Copper |
| Conductor surface | Bare |
| Core insulation material | Crosslinked polymer |
| Screen construction | Metallised foil |
| Screen | Yes |
| Screen material | Copper, bare |
| Material outer sheath | Low smoke zero halogen |
| Cable shape | Round |

APPLICATIONS PROPERTIES

| | |
|------------------------------------|------------------------------------|
| Nominal voltage U ₀ [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 |

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

TECHNICAL DATA

| Number of cores | Nominal cross section conductor [mm ²] | 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 [CO ₂ e kg/km] |
|-----------------|--|--------------------|---------------------|--|-----------------------------|----------------------|--|---|
| 2 | 1.5 | Class 1 = solid | Red | 1.5 | 9.2 | 120 | 12.1 | 298 |
| 2 | 2.5 | Class 2 = stranded | White | 2.5 | 11.1 | 175 | 7.41 | 795 |
| 2 | 4 | Class 2 = stranded | White | 4 | 12.3 | 235 | 4.61 | 1,130 |
| 3 | 4 | Class 2 = stranded | Red | 4 | 13.1 | 290 | 4.61 | 1,443 |
| 4 | 1.5 | Class 1 = solid | Red | 1.5 | 10.9 | 185 | 12.1 | 381 |
| 4 | 2.5 | Class 2 = stranded | Red | 2.5 | 13.2 | 270 | 7.41 | 1,277 |
| 4 | 2.5 | Class 2 = stranded | Red | 2.5 | 13.2 | 270 | 7.41 | 1,277 |
| 4 | 4 | Class 2 = stranded | White | 4 | 14.7 | 355 | 4.61 | 1,833 |

*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: <https://uk.prysmiangroup.com/embodied-carbon>