

## 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](https://uk.prysmian.com/technical-area/faqs) - uk.prysmian.com/technical-area/faqs
- [Technical email](mailto:tech.info@prysmian.com) - tech.info@prysmian.com
- [Live Chat](https://uk.prysmian.com/technical-area) - 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 61034-2**  
**BS EN 60754-1**

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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	Aluminium
Material outer sheath	Low smoke zero halogen
Cable shape	Round

## APPLICATIONS PROPERTIES

Nominal voltage U <sub>0</sub> [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 [mm²]	Conductor category	Colour outer sheath	Nominal cross section of protective conductor [mm²]	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: <https://uk.prysmiangroup.com/embodied-carbon>