

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
- Manufactured under ISO 9001 Quality management systems

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 | Aluminium |
| Material outer sheath | Low smoke zero halogen |
| Cable shape | Round |

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 |

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 | Nominal cross section of protective conductor [mm ²] | Nominal outer diameter [mm] | Cable weight [kg/km] | Conductor resistance at 20° C [Ohm/km] |
|-----------------|--|--------------------|--|-----------------------------|----------------------|--|
| 2 | 1.5 | Class 1 = solid | 1.5 | 9.2 | 115 | 12.1 |
| 2 | 2.5 | Class 1 = solid | 2.5 | 11.5 | 175 | 7.41 |
| 3 | 1.5 | Class 1 = solid | 1.5 | 11.7 | 175 | 12.1 |
| 3 | 2.5 | Class 1 = solid | 2.5 | 12.7 | 225 | 7.41 |
| 4 | 1.5 | Class 1 = solid | 1.5 | 12.5 | 210 | 12.1 |
| 4 | 2.5 | Class 1 = solid | 2.5 | 13.5 | 270 | 7.41 |