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 1.5mm^2 & 2.5mm^2 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	Construction Standard
BS EN 50200 - 30 minutes	Fire Resistant Test - Flame & Shock - 30 Minutes
BS EN 50200 - 60 minutes	Fire Resistant Test - Flame & Shock - 60 Minutes
BS EN 50200 - 120 minutes	Fire Resistant Test - Flame & Shock - 120 Minutes
BS 8434-2	Fire Resistant Test - Flame, Shock & Water - 120 Minutes
BS 6387 Category CWZ	Fire Resistant Tests
BS EN 60332-1-2	Flame Propagation - Single Cable
BS EN 61034-2	Smoke emission
BS EN 60754-1	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 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

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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 [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	120	12.1	354
2	2.5	Class 2 = stranded	White	2.5	11.1	175	7.41	1,000
2	4	Class 2 = stranded	White	4	12.3	235	4.61	1,249
3	1.5	Class 1 = solid	White	1.5	9.8	150	12.1	407
3	2.5	Class 2 = stranded	White	2.5	11.8	220	7.41	1,402
3	4	Class 2 = stranded	Red	4	13.1	290	4.61	1,678
4	1.5	Class 1 = solid	Red	1.5	10.9	185	12.1	464
4	2.5	Class 2 = stranded	Red	2.5	13.2	270	7.41	1,814
4	4	Class 2 = stranded	White	4	14.7	355	4.61	2,290

*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