

## FP500

### Mechanically Protected Cat 3 Fire Resistant Control Cable



Prysmian FP500 is the cable designed to satisfy CAT 3 Control cable requirements for BS 8519:2020 including where the control cable is to be used as a single phase power cable.

### KEY APPLICATIONS

LV life safety control panel supplies (single phase) including **fire-fighting applications**.

Satisfies the requirements of **BS 8519 for small single phase power cables** without the need for additional mechanical protection.

### FEATURES AND BENEFITS

- Suitable for use in large and complex buildings to control fire fighting equipment
- BS 8519 Category 2 and 3 for control
- Robust armour provides cable with added mechanical protection
- Reduced flame propagation
- Low Smoke, Zero Halogen (LSOH®) sheath
- Manufactured under ISO 9001 Quality Management Systems
- Multi core steel wire armour mechanical protection built in
- No special tools needed
- Use readily available BW or CW glands
- White Numbered cores
- Red coloured outer sheath for easy identification
- Building Research Establishment (BRE) tests reports: Details available upon request

### ADDITIONAL TECHNICAL SUPPORT

- [FAQ's](https://uk.prysmiangroup.com/technical-area/faqs) - uk.prysmiangroup.com/technical-area/faqs
- [Technical email](mailto:tech.info@prysmiangroup.com) - tech.info@prysmiangroup.com
- [Live Chat](https://uk.prysmiangroup.com/technical-area) - uk.prysmiangroup.com/technical-area
- Technical hotline: 02380 295222

### STANDARDS

BS EN 50200 - PH120

BS 8434-2

BS EN 60332-1-2

BS EN 61034-2

BS EN 60754-1

BS 8519 Annex D

Fire Resistant Test - Flame & Shock - 120 Minutes

Fire Resistant Test - Flame, Shock & Water - 120 Minutes

Flame Propagation - Single Cable

Smoke emission

Corrosive and acid gas

Fire Resistant Test - Life Safety and Fire Fighting Systems

## CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Mica + XLPE
Armouring/reinforcement	Wire
Armouring	Yes
Material inner sheath	Low smoke zero halogen
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 60332-3-24
Halogen free	Yes
Low smoke	Yes
Max. conductor temperature [°C]	90
Min. Operation temperature [°C]	-25
UV resistant	Yes
Outdoor installation	Yes
Min. Installation temperature [°C]	0
Max. Installation temperature [°C]	80
Underground installation	Yes
Bending radius (rule)	8D

## COLOURS

Insulation: White with black numbers;  
Sheath: Red

## CURRENT RATINGS

Refer to table 4E4 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature

## TECHNICAL DATA

Number of cores	Nominal cross section conductor [mm <sup>2</sup> ]	Shape of conductor	Nominal diameter under armour [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
3	1.5	Round	9.3	13.9	370	12.1
3	2.5	Round	10.8	15.4	455	7.41
4	1.5	Round	10.2	14.8	415	12.1
4	2.5	Round	12.1	16.9	530	7.41
5	1.5	Round	11.2	15.6	445	12.1
5	2.5	Round	12.9	17.3	550	7.41