

## FP100® BS 8592

Fire Resistant Single Core Cable. 450/750 V



Prysmian FP100® BS 8592 is the original fire resistant low voltage single core cable for use in screwed steel conduits

### KEY APPLICATIONS

FP100® BS 8592 is ideally suited to drawing into conduit installations that provide adequate mechanical protection and it forms the key part of a wiring system for evacuation and fire fighting applications.

Green/Yellow is also suitable as a separate earth.

### FEATURES AND BENEFITS

- Ideal for rewiring existing steel conduit and upgrade to a fire resistant system or where the added mechanical protection or utilisation of a steel conduit is required
- Tough robust insulation prevents damage during installation
- Low smoke and corrosive gas emissions Zero Halogen, Low Smoke (LSOH®)
- Manufactured under ISO 9001 Quality management systems
- 1.5 - 6mm<sup>2</sup> fire tested to BS 8519:2020 Annex D (Manufacturer's test reports available upon request)

### ADDITIONAL TECHNICAL SUPPORT

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

### STANDARDS



**BS 8592**

**IEC 60331-3**

**BS EN 50200 - 120 minutes**

**BS 8434-2**

**BS EN 60332-1-2**

**BS EN 61034-2**

**BS EN 60754-1**

**BS EN 60228**

Construction Standard

Fire Resistant Test

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

Conductors

### CONSTRUCTION

Conductor material

Conductor surface

Core insulation material

Copper

Bare

Mica + polymer

## APPLICATIONS PROPERTIES

Nominal voltage U <sub>0</sub> [V]	450
Nominal voltage U [V]	750
Flame retardant	In accordance with BS EN 60332-1-2
Halogen free	Yes
Low smoke	Yes
Max. conductor temperature [°C]	90
Min. Operation temperature [°C]	-25
Min. Installation temperature [°C]	0
Max. Installation temperature [°C]	80
Bending radius (rule)	6D

## COLOURS

A range of insulation colours are available, including green/yellow

## CURRENT RATINGS

Refer to table 4E1 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

Nominal cross section conductor [mm <sup>2</sup> ]	Conductor category	Nominal thickness insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]	Embodied Carbon [CO <sub>2</sub> e kg/km]
1.5	Class 2 = stranded	0.7	3.6	26	12.1	90
2.5	Class 2 = stranded	0.8	4.2	39	7.41	124
4	Class 2 = stranded	0.8	4.7	53	4.61	176
6	Class 2 = stranded	0.8	5.3	76	3.08	221
10	Class 2 = stranded	1	6.6	125	1.83	472
16	Class 2 = stranded	1	7.2	180	1.15	644
25	Class 2 = stranded	1.2	9	280	0.727	856
35	Class 2 = stranded	1.2	10.5	380	0.524	1,219
50	Class 2 = stranded	1.4	12.2	520	0.387	1,552
70	Class 2 = stranded	1.4	13.4	710	0.268	2,151

\*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>