

# FP100®

Fire Resistant Single Core Cable. 450/750 V



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

## KEY APPLICATIONS

FP100® 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 Low Smoke, Zero Halogen (LSOH®)
- Manufactured under ISO 9001 Quality management systems

## ADDITIONAL TECHNICAL SUPPORT

- [FAQ's](http://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](http://uk.prysmian.com/technical-area) - uk.prysmian.com/technical-area
- Technical hotline: 02380 295222

## STANDARDS



BS 6387 Category CWZ  
IEC 60331-21  
BS EN 60332-1-2  
BS EN 61034-2  
BS EN 60754-1

Fire Resistant Tests  
Fire Resistant Test  
Flame Propagation - Single Cable  
Smoke emission  
Corrosive and acid gas

## CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Mica + polymer

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## 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

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## COLOURS

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

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## 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

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## 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]
95	Class 2 = stranded	1.6	16	965	0.193	6,817
120	Class 2 = stranded	1.6	17.4	1,200	0.153	8,507
150	Class 2 = stranded	1.8	19.3	1,500	0.124	10,502
185	Class 2 = stranded	2	22	1,850	0.0991	13,166
240	Class 2 = stranded	2.2	25	2,400	0.0754	17,236
300	Class 2 = stranded	2.4	27	3,100	0.0601	21,782
400	Class 2 = stranded	2.6	31	3,800	0.047	27,137
500	Class 2 = stranded	2.8	35	4,900	0.0366	34,636
630	Class 2 = stranded	2.8	38	6,200	0.0283	44,702

\*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>