

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 also suitable as a separate CPC.

FEATURES AND BENEFITS

- Ideal for rewiring existing steel conduit and upgrade to a fire resistant system or where the added mechanical protection or flexibility of a steel conduit or trunking system is required
- Tough robust insulation prevents damage during installation
- Low smoke and corrosive gas emissions Low Smoke, Zero Halogen (LSOH®)

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

APPLICATIONS PROPERTIES

Nominal voltage U ₀ [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 ²]	Conductor category	Nominal thickness insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
1.5	Class 2 = stranded	0.7	3.9	27	12.1
2.5	Class 2 = stranded	0.8	4.6	41	7.41
4	Class 2 = stranded	0.8	5.1	55	4.61
6	Class 2 = stranded	0.8	5.6	77	3.08
10	Class 2 = stranded	1	7.5	135	1.83
16	Class 2 = stranded	1	8.1	190	1.15
25	Class 2 = stranded	1.2	9.5	280	0.727
35	Class 2 = stranded	1.2	10.6	370	0.524
50	Class 2 = stranded	1.4	12.2	500	0.387
70	Class 2 = stranded	1.4	14.1	710	0.268
95	Class 2 = stranded	1.6	16	965	0.193
120	Class 2 = stranded	1.6	17.4	1,200	0.153
150	Class 2 = stranded	1.8	19.3	1,500	0.124
185	Class 2 = stranded	2	22	1,850	0.0991
240	Class 2 = stranded	2.2	25	2,400	0.0754
300	Class 2 = stranded	2.4	27	3,100	0.0601
400	Class 2 = stranded	2.6	31	3,800	0.047
500	Class 2 = stranded	2.8	35	4,900	0.0366
630	Class 2 = stranded	2.8	38	6,200	0.0283