

A Brand of Prysmian Group

# **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

#### **CONSTRUCTION**

Conductor material Conductor surface Core insulation material Fire Resistant Tests Fire Resistant Test Flame Propagation - Single Cable Smoke emission Corrosive and acid gas

Copper Bare Mica + polymer



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#### **APPLICATIONS PROPERTIES**

Nominal voltage U0 [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

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## **TECHNICAL DATA**

Nominal cross section conductor [mm²]	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