# 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- uk.prysmian.com/technical-area/faqs
- Technical email - tech.info@prysmian.com
- Live Chat - uk.prysmian.com/technical-area
- Technical hotline: 02380 295222

## STANDARDS

| | |
|---|---|
| **BS 6387 Category CWZ** | Fire Resistant Tests |
| **IEC 60331-21** | Fire Resistant Test |
| **BS EN 60332-1-2** | Flame Propagation - Single Cable |
| **BS EN 61034-2** | Smoke emission |
| **BS EN 60754-1** | Corrosive and acid gas |

## CONSTRUCTION

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

## 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

## 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] | Embodied Carbon [CO2e kg/km] |
|---|---|---|---|---|---|---|
| 95 | Class 2 = stranded | 1.6 | 16 | 965 | 0.193 | 2,640 |
| 120 | Class 2 = stranded | 1.6 | 17.4 | 1,200 | 0.153 | 3,210 |
| 150 | Class 2 = stranded | 1.8 | 19.3 | 1,500 | 0.124 | 3,929 |
| 185 | Class 2 = stranded | 2 | 22 | 1,850 | 0.0991 | 4,886 |
| 240 | Class 2 = stranded | 2.2 | 25 | 2,400 | 0.0754 | 6,266 |
| 300 | Class 2 = stranded | 2.4 | 27 | 3,100 | 0.0601 | 7,920 |
| 400 | Class 2 = stranded | 2.6 | 31 | 3,800 | 0.047 | 9,947 |
| 500 | Class 2 = stranded | 2.8 | 35 | 4,900 | 0.0366 | 12,694 |
| 630 | Class 2 = stranded | 2.8 | 38 | 6,200 | 0.0283 | 16,236 |

*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