

PRYSMIAN  
**FP100**



Certificate No 077c\*  
Certificate No 077p\*, †

THE FIRE RESISTANT SOLUTION FOR STEEL CONDUIT  
450/750 V and 600/1000V



### Conductor

Plain annealed copper stranded conductor meets the requirements of BS EN 60228 Class 2

### Insulation

Mineral ceramic (Mica) fire resistant tape and 90°C cross - linked insulation

### Key Applications

> Consider using FP100 when FP200 Gold, FP PLUS or FP600S are unsuitable

### Performance Standards

- > 450/750V and 600/1000V
- > BS 6387 Category CWZ\*
- > BS EN 60754-1
- > BS EN 61034-2\*, †
- > IEC 60331-21\*
- > Use in screwed steel conduit to achieve fire rating
- > LPCB Approved\*
- > Low smoke, zero halogen, flame retardant
- > BS EN 50267-2-1\*

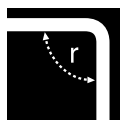
### Core identification

- red
- brown
- black
- yellow
- orange
- grey
- blue
- green/yellow

Other core colours available on request



Temperature Range  
-25 to +90°C



Bending Radius  
below 9mm diameter r=4D  
above 9mm diameter r=6D



Mechanical Impact  
Requires Protection



Fire Performance  
BS EN 60332-1-2



Flexibility  
Rigid



Halogen Free  
BS EN 60754-1



Low Smoke Emissions  
BS EN 61034-2



Fire Resistant  
IEC 60331-21  
BS 6387 Category CWZ

Nominal cross sectional area	Approximate overall diameter (D)	Approximate cable weight	Maximum conductor resistance at 20°C	Short circuit rating (1sec)	Current rating DC or single phrase AC	Current rating three phase AC	Volt drop DC	Volt drop single phrase AC	Volt drop three phase AC
mm <sup>2</sup>	mm	kg/km	Ω/km	kA	Amps	Amps	mV/A/m	mV/A/m	mV/A/m

#### Single Core

1.5	3.9	27	12.1	0.20	23	20	31	31	27
2.5	4.6	41	7.41	0.35	31	28	19	19	16
4	5.1	55	4.61	0.57	42	37	12	12	10
6	5.6	77	3.08	0.86	54	48	7.9	7.9	6.8
10	7.5	135	1.83	1.4	75	66	4.7	4.7	4
16	8.1	190	1.15	2.2	100	88	2.9	2.9	2.5
25	9.5	280	0.727	3.6	133	117	1.85	1.9	1.65
35	10.6	370	0.524	5.0	164	144	1.35	1.35	1.15
50	12.2	500	0.387	7.1	198	175	0.99	1.05	0.9
70	14.1	710	0.268	10.0	253	222	0.68	0.75	0.65
95	16	965	0.193	13.6	306	269	0.49	0.58	0.5
120	17.4	1200	0.153	17.2	354	312	0.39	0.48	0.42
150	19.3	1500	0.124	21.4	393	342	0.32	0.43	0.37
185	22	1850	0.0991	26.5	449	384	0.25	0.37	0.32
240	25	2400	0.0754	34.3	528	450	0.19	0.33	0.29
300	27	3100	0.0601	42.9	603	514	0.155	0.31	0.27
400	31	3800	0.0470	57.2	683	584	0.120	0.29	0.25
500	35	4900	0.0366	71.5	783	666	0.093	0.28	0.24
630	38	6200	0.0283	90.1	900	764	0.072	0.27	0.23

#### Notes to table

- > Installation methods for current rating "Enclosed in conduit on a wall" in accordance with BS7671/IET Wiring Regulations.
- > Minimum recommended installation temperature 0°C.
- > The tabulated ratings are based upon a 30°C ambient temperature at 90°C operating temperature.
- > For other ambient temperatures or where several circuits are grouped together, the following rating factors should be applied.

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For further information please  
see our dedicated FP Cables website:  
www.fpcables.co.uk



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