

FP100®

THE FIRE RESISTANT SOLUTION FOR STEEL CONDUIT



Certificate No 077c

CABLE DESCRIPTION

Conductor

Plain annealed copper stranded (class 2) conductor.

Insulation

Mineral ceramic (Mica/Glass) fire resistant tape. 90°C high performance cross linked mineral filled insulation.

Key Applications

- > Essential safety circuits where the cable is protected by metal conduit.
- > May be used for emergency lighting, fire alarm systems not requiring a twisted cable or other essential services.

Performance Standards

- > 450/750 V and 600/1000 V
- > BS 6387:1994 Cat C (950±40°C for 180 mins)
- > BS 6387:1994 Cat W (650±40°C for 30 mins)
- > BS 6387:1994 Cat Z (950±40°C for 15 mins)
- > EN 50267-2-2:1999
- > EN 61034-2:2005
- > IEC 60331-21:1999
- > Use in screwed steel conduit to achieve fire rating
- > LPCB Approved
- > Low smoke, zero halogen, flame retardant

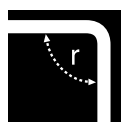
Core identification

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

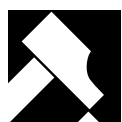
Other core colours available on request



Temperature Range
-25 to +90°C



Bending Radius
up to 8mm diameter r=4D
above 9mm diameter r=6D



Mechanical impact
Requires protection



Fire performance
BS EN 60332-1-2



Flexibility
Semi-flexible



Halogen Free
BS EN 50267-2-1



Low Smoke Emissions
BS EN 61034-2



Fire Resistant
IEC 60331-21
BS 6387 Category CWZ
EN50200 PH120*

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

1.5*	3.5	26	12.1	215	23	20	31	31	27
2.5*	4.1	38	7.41	360	31	28	19	19	16
4*	4.6	54	4.61	570	42	37	12	12	10
6*	5.2	75	3.08	860	54	48	7.9	7.9	6.8
10*	6.6	120	1.83	1425	75	66	4.7	4.7	4
16	7.7	180	1.15	2275	100	88	2.9	2.9	2.5
25	9.0	270	0.727	3375	133	117	1.85	1.9	1.65
35	10.0	360	0.524	5000	164	144	1.35	1.35	1.15
50	11.7	490	0.387	7150	198	175	0.99	1.05	0.9
70	13.2	680	0.268	10000	253	222	0.68	0.75	0.65
95	15.3	940	0.193	13575	306	269	0.49	0.58	0.5
120	16.8	1160	0.153	17150	354	312	0.39	0.48	0.42
150	18.7	1440	0.124	21450	393	342	0.32	0.43	0.37
185	20.8	1800	0.0991	26450	449	384	0.25	0.37	0.32
240	23.5	2350	0.0754	34325	528	450	0.19	0.33	0.29
300	27.3	3000	0.0601	42925	603	514	0.155	0.31	0.27
400	32.5	3970	0.0470	57225	683	584	0.120	0.29	0.25
500	36.0	4980	0.0366	71525	783	666	0.093	0.28	0.24
630	40.0	6340	0.0283	90125	900	764	0.072	0.27	0.23

Notes to table

- > * Sizes 1.5 - 10mm² are rated at 450/750V.
- > Installation methods for current rating "Enclosed in conduit on a wall or in trunking" in accordance with BS7671/IEE Wiring Regulations.
- > Minimum recommended installation temperature -5°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.

Temperature ratings factor

Ambient Temperature°C	25	30	35	40	45	50	55	60
Rating factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71

Rating Factors for Groupings

Number of circuits	2	3	4	5	6	7	8	9
Rating factor	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50

Sales enquiries
Tel: 0845 767 8345
Fax: 023 8029 5465

Overseas sales enquiries
Tel: +44 (0) 23 5029 5481
Fax: +44 (0) 23 8029 5465

UK Technical helpline
Tel: 0845 767 8345
Fax: 023 8029 5002

Overseas technical
Tel: +44 (0) 23 8029 5481
Fax: +44 (0) 23 8029 5002

Prysmian Cables & Systems Limited
Chickenhall Lane
Eastleigh
Hampshire
SO50 6YU
United Kingdom
www.prysmiangroup.co.uk

Information hotline
Tel: +44 (0) 23 8029 5029
Fax: +44 (0) 23 8029 5437



Should you have any concerns about unsafe, non-approved or counterfeit cable, please contact the ACI

Tel: 020 8946 6978
Email: report@aci.org.uk



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



A brand of the
Prysmian
Group