

FP200 Gold®



BS7629-1

BS5839-1:2002

CABLE CHARACTERISTICS



Temperature Range
-20 to +70°C



Bending Radius
Fixed r=6D



Mechanical Impact
Medium



Fire Performance
BSEN50265-2-1
BSEN50266-2-4



Flexibility
Rigid



Halogen Free
BSEN50267-2-1



Low Smoke Emissions
BSEN50268-2



Fire Resistant
BS6387 Category CWZ
EN50200 PH30
BS8434-1 30 min

KEY APPLICATIONS

Fire detection and fire alarm systems for buildings. FP200 Gold is BSEC and LPCB approved in accordance with the requirements of BS5839-1:2002 Clause 26.2 for standard fire resisting cables. Emergency lighting or other essential service circuits

CABLE DESCRIPTION

CONDUCTOR

Plain annealed copper solid (1.0 - 2.5mm²) or stranded (4.0mm²) circular conductor complying with BS6360 class 1 or class 2

INSULATION

High Performance damage resistant Insudite™

Core identification:

- brown-blue
- ○ brown-black-grey
- ○ ○ blue-brown-black-grey

SCREEN

Laminated aluminium tape screen bonded to sheath and in contact with full size tinned annealed copper circuit protective conductor which provides automatic screen earthing

SHEATH

Robust thermoplastic LSOH sheath: Colour - White or Red

Other colours to special order

For external exposure the use of white sheath is recommended



Nominal cross sectional area mm ²	Conceptual construction no./mm	Mean overall diameter mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C ohms/km	Current rating DC or single phase AC Enclosed Amps	Current rating DC or single phase AC Clipped direct Amps	Volt drop DC or single phase AC mV/A/m	Recommended accessories		
								LSOH ¹ fixing clips	Nylon ² LSOH [®] gland	FP Firefix™ fixing clips

Two core

1.0	1/1.13	8.0	78	18.1	13	15	44	AP7	251/GL2520	UFPNF02*
1.5	1/1.38	8.1	93	12.1	16.5	19.5	29	AP7	251/GL2520	UFPNF02*
2.5	1/1.78	9.5	140	7.4	23	27	18	AP9	251/GL2520	-
4.0	7/0.85	11.2	195	4.6	30	36	11	AP11	252/GL2520	-

Three core

1.0	1/1.13	8.2	88	18.1	13	15	44	AP7	251/GL2520	UFPNF02*
1.5	1/1.38	8.5	116	12.1	16.5	19.5	29	AP8	251/GL2520	UFPNF04*
2.5	1/1.78	10.6	180	7.4	23	27	18	AP10	252/GL2520	-
4.0	7/0.85	11.9	248	4.6	30	36	11	AP11	252/GL2520	-

Four core

1.0	1/1.13	8.5	107	18.1	13	15	44	AP8	251/GL2520	UFPNF04*
1.5	1/1.38	10.0	143	12.1	16.5	19.5	29	AP9	251/GL2520	-
2.5	1/1.78	11.9	225	7.4	23	27	18	AP11	252/GL2520	-
4.0	7/0.85	13.2	310	4.6	30	36	11	AP13	254	-

FP200 Gold® is also available in multi-core versions (7, 12 & 19 core configurations)

¹ Recommended clip spacing 300 mm horizontal and 400mm vertical

² Brass glands may be used as an alternative

Minimum recommended installation temperature 0°C

Installation methods for current rating in accordance with BS7671/IEE Wiring Regulations

The tabulated ratings are based upon a 30°C ambient temperature and 70°C operating temperature.

For other ambient temperatures or where cables are grouped together, appropriate rating factors should be applied.

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FPG/08/04

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* R - Red
W - White

FP200 Gold®**BS7629-1****BS5839-1:2002****Temperature rating factors:**

Ambient rating factors °C	Rating Factor
25	1.03
30	1.00
35	0.94
40	0.87
45	0.79
50	0.71
55	0.61
60	0.50

Correction Factors for groupings

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

FP200 Gold Multicore®

BS7629-1



CABLE CHARACTERISTICS



Temperature
Range
-20 to +70°C



Bending Radius
Fixed $r=6D$



Mechanical Impact
Medium



Fire Performance
BS EN 50265-2-1
BS EN 50266-2-4



Flexibility
Rigid



Halogen Free
BS EN 50267-2-1



Low Smoke Emissions
BS EN 50268-2



Fire Resistant
BS 6387 Category CWZ

KEY APPLICATIONS

Essential safety circuits. LPCB approved fire resistant cable

CABLE DESCRIPTION

CONDUCTOR

Plain annealed copper solid (1.0 - 1.5mm²) or stranded (2.5mm²) circular conductor complying with BS6360 class 1 or class 2

INSULATION

High Performance damage resistant Insudite™

Core identification:

7-12-19 cores white with printed number

SCREEN

Laminated aluminium tape screen bonded to sheath and in contact with tinned annealed copper 0.5mm² drain wire

SHEATH

Robust thermoplastic LSOH sheath: Colour - White or Red

Other colours to special order

For external exposure the use of white sheath is recommended



Nominal cross sectional area mm²	Conceptual construction no./mm	Mean overall diameter mm	Approximate cable weight kg/km	Maximum conductor resistance at 20°C ohms/km	Current rating DC or single phase AC Enclosed Amps	Current rating DC or single phase AC Clipped direct Amps	Volt drop DC or single phase AC mV/A/m	Recommended accessories	
								LSOH® fixing clips ¹	Nylon LSOH® gland ²
Seven core									
1.0	1/1.13	12.1	196	18.1	13*	15*	44	AP12	252
1.5	1/1.38	13.3	249	12.1	16.5*	19.5*	29	AP13	252
2.5	7/0.67	16.3	387	7.4	23*	27*	18	AP16	254
Twelve core									
1.5	1/1.38	17.5	399	12.1	16.5	19.5*	29	AP18	254
2.5	7/0.67	21.7	637	7.4	23*	27*	18	AP22	255
Nineteen core									
1.5	1/1.38	20.5	588	12.1	16.5	19.5*	29	AP20	255
2.5	7/0.67	25.6	949	7.4	23*	27*	18	AP25	-

¹ Recommended clip spacing

Cable Diameter (mm)	Recommended Maximum Spacing of Clips	
	Horizontal (mm)	Vertical (mm)
Not exceeding 15mm	300	400
Exceeding 15mm but not Exceeding 20mm	350	450
Exceeding 20mm	400	550

² Brass glands may be used as an alternative

Installation methods for current rating in accordance with BS7671/IEE Wiring Regulations

*The tabulated rating is as a two core and may be used where its number of cores carrying current does not exceed the square root of the total number of cores.

The tabulated ratings are based upon a 30°C ambient temperature and 70°C operating temperature. For other ambient temperatures or where cables are grouped together, the following rating factors should be applied.