

# TECHNICAL DATA SHEET

**PRO-ELEC**

## Standard Fire Resistant Cable BS7629-1

**RoHS  
Compliant**

Construction	
Conductor	1.5mm <sup>2</sup> - 2.5mm <sup>2</sup> : Class 1 solid conductor 4mm <sup>2</sup> : Class 2 stranded conductor
Insulation	High performance fire resistant silicone rubber
Overall Screen	Al/PET (Aluminium/Polyester Tape)
Circuit Protective Conductor	Tinned copper
Outer Sheath	LSZH (Low Smoke Zero Halogen)
Core Identification	2 cores: Blue, Brown + Bare Earth 3 cores: Brown, Black, Grey + Bare Earth 4 cores: Blue, Brown, Black, Grey
Sheath Colour	Red, White

Specification	
Voltage Rating Uo/U	300/500V
Temperature Rating	-40°C to +90°C
Minimum Bend Radius	6 x overall diameter



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## DIMENSIONS

PART NO	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	EARTH WIRE CONSTRUCTION n° /mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
CB20997 CB20998	2	1.5	1/1.38	8	95
CB21001 CB21002	2	2.5	1/1.75	9.4	130
CB21005 CB21006	3	1.5	1/1.38	8.5	115
CB21009 CB21010	4	1.5	1/1.38	9.4	140

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONDUCTOR RESISTANCE AT 20°C Ω/km	INSULATION RESISTANCE AT 20°C MΩXkm	NOMINAL CAPACITANCE pF/m	
			Core / Core	Core / Screen
1	18.1	300	100	170
1.5	12.1	300	110	190
2.5	7.41	300	130	220
4	4.61	300	160	270

## CURRENT CARRYING CAPACITY

### Clipped Direct

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT RATING Amps	
	2 Core	3 and 4 Core
1	19	17
1.5	24	22
2.5	33	30
4	45	40

### In Conduit or in Cable Tray

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT RATING Amps	
	2 Core	3 and 4 Core
1	17	15
1.5	22	19.5
2.5	30	26
4	40	35

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## VOLTAGE DROP

### Clipped Direct

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT RATING Amps	
	2 Core	3 and 4 Core
1	45	39
1.5	30	26
2.5	18	15
4	11	10

### In Conduit or in Cable Tray

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT RATING Amps	
	2 Core	3 and 4 Core
1	45	39
1.5	30	26
2.5	18	15
4	11	10

## DERATING FACTORS

AMBIENT TEMPERATURE	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C
DE-RATING FACTOR	1.04	1.00	0.95	0.90	0.85	0.80	0.74	0.67	0.60