

TECHNICAL DATA SHEET

Enhanced Fire Resistant Cable RoHS BS7629-1

Construction	
Conductor	1.5mm ² - 2.5mm ² : Class 1 solid conductor 4mm ² : Class 2 stranded conductor
Insulation	Mica/Glass fire resistant tape covered by 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 ²	EARTH WIRE CONSTRUCTION n° /mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
CB20999 CB21000	2	1.5	1/1.18	8.8	105
CB21003 CB21004	2	2.5	1/1.75	10.2	150
CB21007 CB21008	3	1.5	1/1.38	9.3	130
CB21011 CB21012	4	1.5	1/1.38	10.3	165

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS CONDUCTOR SECTIONAL AREA RESISTANCE mm² Ω/km	INSULATION RESISTANCE AT 20°C - MΩXkm	NOMINAL CAPACITANCE pF/m			
		Core / Core	Core / Screen		
1	18.1	300	95	160	
1.5	12.1	300	110	170	
2.5	7.41	300	120	200	
4	4.61	300	150	250	

CURRENT CARRYING CAPACITY Clipped Direct

NOMINAL CROSS	CURRENT RATING				
SECTIONAL AREA	Amps				
mm ²	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	CURRENT RATING				
SECTIONAL AREA	Amps				
mm ²	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	CURRENT RATING Amps				
mm²	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	CURRENT RATING				
SECTIONAL AREA	Amps				
mm ²	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

