



APPLICATION

Enhanced fire Resistant cables for use primarily in fire detection, fire alarm, voice alarm, and emergency lighting circuits. These cables are designed to continue to operate for a period of time in a fire situation. 'Enhanced grade' fire resistance is recommended for systems, in particular building types, in which cables might need to operate correctly during a fire for periods in excess of those normally required for single phase evacuation of a building.

CHARACTERISTICS

Voltage Rating Uo/U

300/500V

Temperature Rating

-40°C to +90°C

Minimum Bending Radius

6 x overall diameter

CONSTRUCTION

Conductor

1.5mm² - 2.5mm²: Class 1 solid conductor

4mm²: 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

STANDARDS

BS 7629-1, BS 5839-1, IEC/EN 60754-1/2, IEC/EN 61034-2, EN 50200-PH30-PH60-PH90-PH120, BS 6387, BS 5266-1, BS 8519 Cat 3, BS 8434-2, EN 60228

DIMENSIONS

Class 1 Solid Plain Conductor

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	EARTH WIRE CONSTRUCTION n° /mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
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2	1.5	1/1.18	8.8	105
2	2.5	1/1.75	10.2	150
2	4	7/0.85	12.2	220
3	1.5	1/1.38	9.3	130
3	2.5	1/1.75	10.8	190
3	4	7/0.85	13	280
4	1.5	1/1.38	10.3	165
4	2.5	1/1.38	12	240
4	4	7/0.85	14.4	350

ELECTRICAL CHARACTERISTICS

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