Standard Fire Resistant Multicore Cables - Solid Conductor

RoHS Compliant



APPLICATION

Standard 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. 'Standard' fire resistance is recommended for general use.

Standards & Approvals

- BS 7629-1, BS 5839-1, BS EN/IEC 60754-1/2, BS EN 61034-2, BS EN 50200-PH30, PH60, PH90, PH120, BS 6387, BS 5266-1, BS 8519, BS EN 60228
- Cables are tested and accredited by BASEC

Characteristics

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

Construction

Conductor
1.5mm^2 to 2.5mm^2 : Class 1 Solid 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 +Bare Earth

Sheath Colour
Red & White

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Dimensions

Class 1 Solid Plain Conductor

Eland Part No.	Sheath Colour	No. Of Cores	Nominal Cross Sectional Area mm²	Earth Wire Construction n° /mm	Nominal Overall Diameter mm	Nominal Weight kg/km
MP002410	Red	2	1.5	1/1.38	8	95
MP002411	White					
MP002414	Red		2.5	1/1.75	9.4	130
MP002415	White					
MP002418	Red	3	1.5	1/1.38	8.5	115
MP002419	White					
MP002421	Red	4			9.4	140
MP002422	White					

Electrical Characteristics

Nominal Cross Sectional Area mm²	Conductor Resistance at 20ºC Ω/km	Insulation Resistance at 20ºC MΩXkm	Nominal Capacitance pF/m	
			Core / Core	Core / Screen
1.5	12.1	300	110	190
2.5	7.41		130	220

Current Carrying Capacity

Nominal Cross Sectional Area mm²	Current Rating Amps	
	2 Core	3 and 4 Core
1.5	24	22
2.5	33	30

In Conduit or in Cable Tray

Nominal Cross Sectional Area mm²	Current Rating Amps	
	2 Core	3 and 4 Core
1.5	22	19.5
2.5	30	26

Voltage Drop

Clipped Direct

Nominal Cross Sectional Area mm²	Voltage Drop mV/A/m	
		3 and 4 Core
1.5	30	26
2.5	18	15

In Conduit or in Cable Tray

Nominal Cross Sectional Area mm²	Voltage Drop mV/A/m	
	2 Core	3 and 4 Core
1.5	30	26
2.5	18	15

De-Rating Factors

Ambient Temperature	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC	55ºC	60ºC	65ºC
De-Rating Factor	1.04	1	0.95	0.9	0.85	0.8	0.74	0.67	0.6

Part Number Table

Description	Part Number
Multicore Cable, 2 Core + Earth, 1.5mm², Red	MP002410
Multicore Cable, 2 Core + Earth, 1.5mm², White	MP002411
Multicore Cable, 2 Core + Earth, 2.5mm², Red	MP002414
Multicore Cable, 2 Core + Earth, 2.5mm², White	MP002415
Multicore Cable, 3 Core + Earth, 1.5mm², Red	MP002418
Multicore Cable, 3 Core + Earth, 1.5mm², White	MP002419
Multicore Cable, 4 Core + Earth, 1.5mm², Red	MP002421
Multicore Cable, 4 Core + Earth, 1.5mm², White	MP002422

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