

Standard Fire Resistant Multicore Cables - Solid Conductor

multicomp PRO

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

1.5mm² to 2.5mm² : 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 mm ²	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
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 mm ²	Conductor Resistance at 20°C Ω/km	Insulation Resistance at 20°C 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 mm ²	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 mm ²	Current Rating Amps	
	2 Core	3 and 4 Core
1.5	22	19.5
2.5	30	26

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Voltage Drop

Clipped Direct

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

De-Rating 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	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, 1.5mm ² , Red	MP002410
Multicore Cable, 2 Core + Earth, 1.5mm ² , White	MP002411
Multicore Cable, 2 Core + Earth, 2.5mm ² , Red	MP002414
Multicore Cable, 2 Core + Earth, 2.5mm ² , White	MP002415
Multicore Cable, 3 Core + Earth, 1.5mm ² , Red	MP002418
Multicore Cable, 3 Core + Earth, 1.5mm ² , White	MP002419
Multicore Cable, 4 Core + Earth, 1.5mm ² , Red	MP002421
Multicore Cable, 4 Core + Earth, 1.5mm ² , White	MP002422

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