

Enhanced Fire Resistant Multicore Cables - Solid Conductor

multicomp^{PRO}

RoHS
Compliant



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.

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 8434-2, BS EN 60228
- Cables are tested and accredited by BASEC

Characteristics

Voltage Rating U_o/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

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 +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	
MP002412	Red	2	1.5	1/1.18	8.8	105	
MP002413	White						
MP002416	Red		2.5		1/1.75		10.2
MP002417	White						
MP002420	White	3	1.5	1/1.38	9.3	130	
MP002423	Red	4			10.3	165	
MP002424	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	170
2.5	7.41		120	200

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	
	2 Core	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	MP002412
Multicore Cable, 2 Core + Earth, 1.5mm ² , White	MP002413
Multicore Cable, 2 Core + Earth, 2.5mm ² , Red	MP002416
Multicore Cable, 2 Core + Earth, 2.5mm ² , White	MP002417
Multicore Cable, 3 Core + Earth, 1.5mm ² , White	MP002420
Multicore Cable, 4 Core + Earth, 1.5mm ² , Red	MP002423
Multicore Cable, 4 Core + Earth, 1.5mm ² , White	MP002424

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