

Fire Alarm Cables

As per IEC : 60332

CMI Fire Alarm

'CMI' Fire Alarm cables shall comply with :

- ❖ BS 7629-1:2008 - 300/500 V fire resistant electric cables having low emission of smoke and corrosive gases when affected by fire - Multicore cables;
- ❖ Enhanced fire resistant cables as described in Clause 26.2e) of BS 5839-1:2002 - Fire detection and alarm systems for buildings. Code of practice for system design, installation, commissioning and maintenance; and achieved:
- ❖ Class PH120 when tested in accordance with BS EN 50200 - Method of test for resistance to fire of unprotected small cables for use in emergency circuits.

Conductor : Plain annealed copper to BS 6360

- ❖ Solid (class 1) for 1 - 1,5 - 2,5 sqmm* ❖ Stranded (class 2) for 4 sqmm
- * 1,5 - 2,5 sqmm are available with stranded conductor (class 2)

Insulation : Mica tape plus high performance silicone rubber EI 2 to BS 7655: section 1.1

Earth Conductor : Tinned annealed copper to BS 6360 (drain wire for multicore cables)

Electrostatic Screen : Aluminium / polyester tape 125% coverage

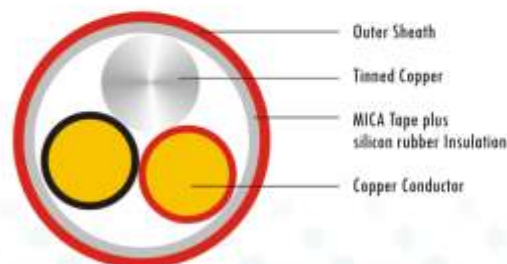
Sheath : Thermoplastic zero halogen, low smoke, flame retardant, abrasion resistant. Type LTS3 to BS 7655: section 6.1

Physical Parameters

No. of conductores x section (sq mm)	Size of Cond (nr./mm)	Size of earth wire (nr./mm)	Final Diameter (nr./mm)	Net Weight (kg/km)
2 x 1.0	1/1.13	1/1.13	7.9	85
3 x 1.0	1/1.13	1/1.13	8.4	105
4 x 1.0	1/1.13	1/1.13	9.3	125
2 x 1.5	1/1.38	1/1.38	8.8	105
3 x 1.5	1/1.38	1/1.38	9.3	130
4 x 1.5	1/1.38	1/1.38	10.3	165
2 x 2.5	1/1.75	1/1.75	10.2	150
3 x 2.5	1/1.75	1/1.75	10.8	190
4 x 2.5	1/1.75	1/1.75	12.0	240
2 x 1.5	7/0.53	7/0.53	9.2	110
3 x 1.5	7/0.53	7/0.53	9.4	135
4 x 1.5	7/0.53	7/0.53	10.5	170
2 x 2.5	7/0.67	7/0.67	10.3	155
3 x 2.5	7/0.67	7/0.67	10.9	190
4 x 2.5	7/0.67	7/0.67	12.1	250
2 x 4.0	7/0.85	7/0.85	12.2	220
3 x 4.0	7/0.85	7/0.85	13.0	280
4 x 4.0	7/0.85	7/0.85	14.4	350

Electrical Characteristic

Voltage rating	Single or Three phase circuit up to 300/500 V r.m.s. or up to 750 V d.c. circuit			
	1	1.5	2.5	4
Temperature rating - for insulated conductors only	-40 ÷ +90 °C max +200 °C			
Cross section (sq mm)	1	1.5	2.5	4
Conductor resistance (Ω / km at 20 °C)	18.1	12.1	7.41	4.61
Insulation resistance (MΩ x km at 20 °C)	300	300	300	300
Nominal Capacitance (pF / m)				
- core/core	95	100	120	150
- core/screen	160	170	200	250



2 core x 1 sq. mm