

Fire Detection and Alarm System Cables

Two Core, Overall Screen, Fire Rated

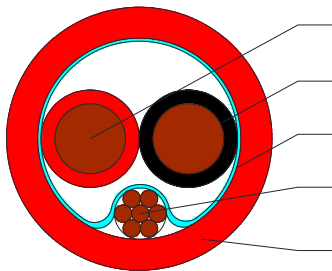


C1458, C1459, C1469, C1470

Applications

Screened two core cable suitable for Fire Detection and Alarm Systems.

Cross Section Drawing



Conductor
Insulation
Al/PET Tape
Drain Wire
Sheath



Design

Unit	Properties
Conductor	2 x Bare Copper wire
Insulation	Halogen Free Flame-Retardant Core 1: Black Core 2: Red
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	22 AWG (7 x 30) Tinned Copper wire
Sheath Material	Halogen Free Flame-Retardant (HFFR/LSZH) Colour: Red
Standard Put Up Length	305 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

Fire Detection and Alarm System Cables

Two Core, Overall Screen, Fire Rated



C1458, C1459, C1469, C1470

Physical Characteristics

Part Number	C1458	C1459	C1469	C1470
No of Cores x AWG Gauge	2 x 18AWG	2 x 16AWG	2 x 14AWG	2 x 12AWG
Nom. Diameter Conductor (mm)	1.02	1.29	1.63	2.05
Nom. Radial Thickness Insulation (mm)	0.4	0.4	0.6	0.6
Nom. Diameter Drain Wire (mm)	0.75			
Nom. Diameter Insulation (mm)	1.90	2.10	2.83	3.2
Nom. Radial Thickness Sheath (mm)	0.9	0.9	1.0	1.1
Nom. Overall Diameter (mm)	5.9	6.1	7.8	8.7
Operating Temperature (°C)	-40 to +105			
Max. Recommended Pulling Tension (N)	215	345	552	876
Min. Bend Radius (install) (mm)	59	61	78	87
Nominal Cable Weight (kg/km)	47.9	58.4	87.5	120.1

Electrical Characteristics at 20°C

Part Number	C1458	C1459	C1469	C1470
No of Cores x AWG Gauge	2 x 18AWG	2 x 16AWG	2 x 14AWG	2 x 12AWG
Max. DC Resistance Conductor (Ω /km)	22.7	15.47	9.36	5.61
Max. DC Resistance Screen (Ω /km)	52.7			
Capacitance conductor to conductor (pF/m)	160	189	160	216
Capacitance cond. To other cond.+screen (pF/m)	297	358	340	424
Nominal Inductance (μ H/m)	0.3	0.5	0.6	0.6
Max. Recommended Current at 25°C(Amps)	5.3	11	18	24
Max. Operating Voltage (Vrms)	300			

Reference Standards

IEC 60332-3-24	IEC 61034
IEC 60754-1&-2	RoHS directives