

Fire Detection and Alarm System Cables

Two Core, Overall Screen, FPLP Type

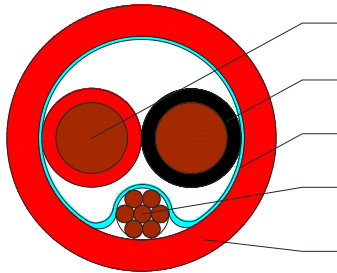


C1387, C1388, C1389, C1390

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	FEP Core 1: Black Core 2: Red
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	22 AWG (7 x 30) Tinned Copper wire
Sheath Material	Flame-Retardant Polyvinyl Chloride (PVC) FPLP Grade 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.

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Physical Characteristics

Part Number	C1387	C1388	C1389	C1390
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)	0.35	0.35	0.38	0.38
Nom. Diameter Drain Wire (mm)	0.75			
Nom. Diameter Insulation (mm)	1.75	2.0	2.40	2.82
Nom. Radial Thickness Sheath (mm)	0.63	0.63	0.63	0.63
Nom. Overall Diameter (mm)	5.0	5.5	6.2	7.1
Operating Temperature (°C)	-10 to +75			
Max. Recommended Pulling Tension (N)	215	345	552	876
Min. Bend Radius (install) (mm)	50	55	62	71
Nominal Cable Weight (kg/km)	39.6	50.4	69.4	96.5
Fire Retardancy	FPLP	FPLP	FPLP	FPLP

Electrical Characteristics at 20°C

Part Number	C1387	C1388	C1389	C1390
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)	78	89	96	109
Capacitance cond. To other cond.+screen (pF/m)	144	166	180	202
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

UL 1666 – UL1424 FPLP
RoHS directives