

Fire Detection and Alarm System 300V Cables

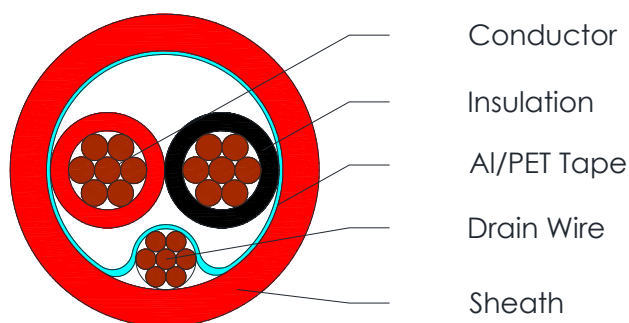
Two Core, Stranded conductor, Overall Screen, FPLR Type



C1521, C1522, C1523, C1524

Applications

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



Design

Unit	Properties
Conductor	2 x Bare Stranded Copper wire
Insulation	Polyvinyl Chloride 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 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	C1521	C1522	C1523	C1524
No of Cores x AWG Gauge	2 x 18AWG	2 x 16AWG	2 x 14AWG	2 x 12AWG
Nom. Diameter Conductor (mm)	1.16	1.4	1.8	2.33
Nom. Radial Thickness Insulation (mm)	0.4	0.4	0.6	0.6
Nom. Diameter Drain Wire (mm)	0.75			
Nom. Diameter Insulation (mm)	2.00	2.25	3.00	3.53
Nom. Radial Thickness Sheath (mm)	0.9	0.9	1.0	1.1
Nom. Overall Diameter (mm)	6.1	6.4	8.1	9.4
Operating Temperature (°C)	-40 to +105			
Max. Recommended Pulling Tension (N)	215	345	552	876
Min. Bend Radius (install) (mm)	61	64	81	94
Nominal Cable Weight (kg/km)	47.9	58.4	87.5	120.1
Fire Retardancy	FPLR	FPLR	FPLR	FPLR

Electrical Characteristics at 20°C

Part Number	C1521	C1522	C1523	C1524
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	150	150	140
Capacitance cond. To other cond.+screen (pF/m)	297	290	290	280
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 FPLR

RoHS directives