

# Fire Detection and Alarm System Cables

## Two Core, Overall Screen, FPLR Type

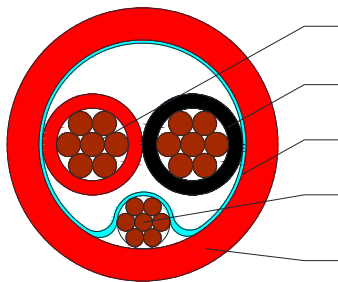


C4567, C4568, C4569, C4570

### 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	Stranded Bare 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.

# Fire Detection and Alarm System Cables

## Two Core, Overall Screen, FPLR Type



### C4567, C4568, C4569, C4570

#### Physical Characteristics

Part Number	C4567	C4568	C4569	C4570
No of Cores x Conductor size (mm <sup>2</sup> )	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5
Nom. Diameter Conductor (mm)	7 x 0.37	7 x 0.43	7 x 0.53	7 x 0.67
Nom. Radial Thickness Insulation (mm)	0.4	0.4	0.6	0.6
Nom. Diameter Drain Wire (mm)	0.75			
Nom. Radial Thickness Sheath (mm)	0.9	0.9	1.0	1.1
Nom. Overall Diameter (mm)	5.9	6.3	7.9	8.8
Operating Temperature (°C)	-40 to +105			
Max. Recommended Pulling Tension (N)	220	350	580	900
Min. Bend Radius (install) (mm)	59	63	79	88
Nominal Cable Weight (kg/km)	43	48	71	99
Fire Retardancy	FPLR	FPLR	FPLR	FPLR

#### Electrical Characteristics at 20°C

Part Number	C4567	C4568	C4569	C4570
No of Cores x Conductor size (mm <sup>2</sup> )	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41
Max. DC Resistance Screen (Ω/km)	52.7			
Capacitance conductor to conductor (pF/m)	160	160	160	160
Capacitance cond. To other cond.+screen (pF/m)	300	300	300	300
Nominal Inductance (μH/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