

# Fire Detection and Alarm System Cables

## Two core, Unscreened, FPLP Type

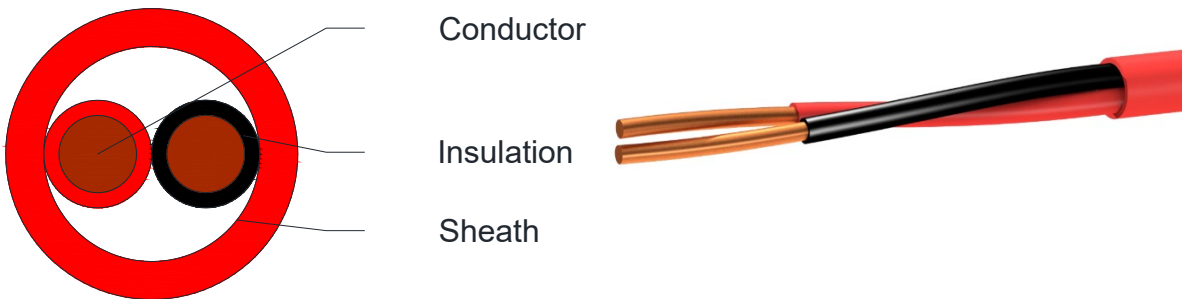


C1565, C1566, C1567, C1568

### Applications

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

### Cross Section Drawing



### Design

Unit	Properties
Conductor	2 x Bare Copper wire
Insulation	FEP Core 1: Black Core 2: Red
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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### C1565, C1566, C1567, C1568

#### Physical Characteristics

Part Number	C1565	C1566	C1567	C1568
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. Radial Insulation Diameter (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)	4.9	5.4	6.1	7.0
Operating Temperature (°C)	-10 to +75			
Max. Recommended Pulling Tension (N)	215	345	552	876
Min. Bend Radius (install) (mm)	49	54	61	70
Nominal Cable Weight (kg/km)	33.5	44.9	63.9	90.5
Fire Retardancy	FPLP	FPLP	FPLP	FPLP

#### Electrical Characteristics at 20°C

Part Number	C1565	C1566	C1567	C1568
No of cores x AWG Gauge	2 x 18AWG	2 x 16AWG	2 x 14AWG	2 x 12AWG
Max. DC Resistance Conductor	22.7	15.47	9.36	5.61
Capacitance conductor to conductor	48	53	55	59
Nominal Inductance	0.3	0.5	0.6	0.6
Max. Recommended Current at 25°C	5.3	11	18	24
Max. Operating Voltage	300			

#### Reference Standards

UL1424
UL1666 FPLP
RoHS directives