

# Fire Detection and Alarm System Cables

## Stranded conductor, Two Core, Overall Screen, FPLR Type

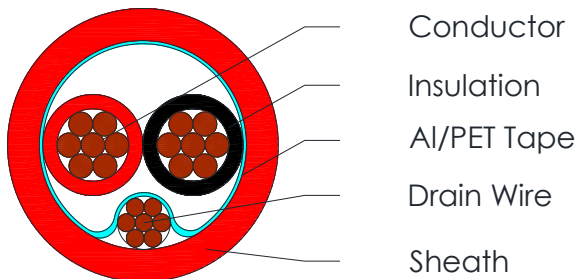


CI 4028, CI 4029, CI 4030, CI 4031

### Applications

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

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Stranded Tinned Copper wire
Insulation	Polyvinyl Chloride Core 1: Black Core 2: Red
Screen (if applicable)	Aluminium/Polyester 100% Coverage
Drain Wire (if applicable)	24 AWG (7 x 32) Tinned Copper wire
Sheath Material	Flame-Retardant Polyvinyl Chloride Colour: Red or Grey
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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## Stranded conductor, Two Core, Overall Screen, FPLR Type



C14028, C14029, C14030, C14031

### Physical Characteristics

Part Number	C14028	C14029	C14030	C14031
Screen Type	Screened	Unscreened	Screened	Unscreened
No of Cores x AWG Gauge	2 x 18AWG	2 x 18AWG	2 x 16AWG	2 x 16AWG
Construction of Conductor	7 x 26AWG	7 x 26AWG	19 x 29AWG	19 x 29AWG
Nom. Diameter Conductor (mm)	1.16	1.16	1.40	1.40
Nom. Radial Thickness Insulation (mm)	0.25			
Nom. Diameter Drain Wire (mm)	7×0.20	-	7×0.20	-
Nom. Diameter Insulation (mm)	1.66	1.66	1.90	1.90
Nom. Radial Thickness Sheath (mm)	0.40	0.40	0.40	0.40
Nom. Overall Diameter (mm)	4.30	4.20	4.70	4.60
Operating Temperature (°C)	-15 to +75			
Max. Recommended Pulling Tension (N)	220	220	350	350
Min. Bend Radius (install) (mm)	40	39	47	46
Nominal Cable Weight (kg/km)	43	40	48	45
Fire Retardancy	FPLR			

### Electrical Characteristics at 20°C

Part Number	C14028	C14029	C14030	C14031
No of Cores x AWG Gauge	2 x 18AWG	2 x 18AWG	2 x 16AWG	2 x 16AWG
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7	22.7	15.47	15.47
Max. DC Resistance Screen ( $\Omega$ /km)	78.5	-	78.5	-
Capacitance conductor to conductor (pF/m)	167	60	174	65
Capacitance cond. To other cond.+screen (pF/m)	260	-	322	-
Nominal Inductance ( $\mu$ H/m)	0.56			
Max. Recommended Current at 25°C(Amps)	5.3	5.3	11	11
Max. Operating Voltage (Vrms)	300			

### Reference Standards

UL 1666 – UL1424 FPLR

RoHS directives