

Fire Detection and Alarm System Cables

Three Core, Unscreened, FPLR Type

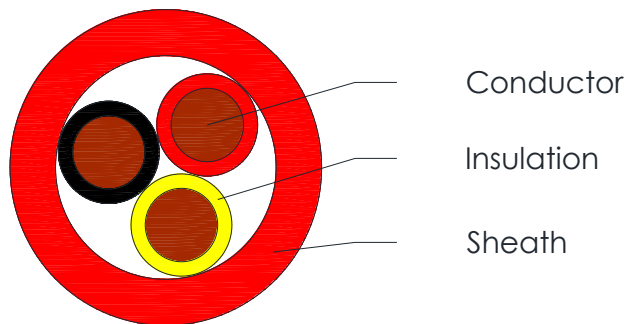


C4182, C4183, C4184, C4185, C4186

Applications

Unscreened Three cores cable suitable for Fire Detection and Alarm Systems.

Cross Section Drawing



Design

Unit	Properties
Conductor	Bare Copper wire
Insulation	Polyvinyl Chloride Core 1: Black Core 2: Red Core 3: Yellow
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	C4182	C4183	C4184	C4185	C4186
No of Cores x Conductor Size (mm ²)	3 x 0.75	3 x 1.0	3 x 1.5	3 x 2.5	3 x 4.0
Nom. Diameter Conductor (mm)	1.00	1.13	1.39	1.80	7 x 0.85
Nom. Radial Thickness Insulation (mm)	0.4	0.4	0.6	0.6	0.8
Nom. Diameter Insulation (mm)	1.85	1.94	2.60	3.00	4.15
Nom. Radial Thickness Sheath (mm)	0.9	1.0	1.1	1.2	1.2
Nom. Overall Diameter (mm)	5.7	6.2	7.8	8.9	11.4
Operating Temperature (°C)	-40 to +105				
Max. Recommended Pulling Tension (N)	330	520	658	826	1322
Min. Bend Radius (install) (mm)	57	62	78	89	114
Nominal Cable Weight (kg/km)	46.9	57.1	88.0	127.5	198.3
Fire Retardancy	FPLR	FPLR	FPLR	FPLR	FPLR

Electrical Characteristics at 20°C

Part Number	C4182	C4183	C4184	C4185	C4186
No of Cores x AWG Gauge	3 x 0.75	3 x 1.0	3 x 1.5	3 x 2.5	3 x 4.0
Max. DC Resistance Conductor (Ω /km)	24.5	18.1	12.1	7.41	4.61
Capacitance conductor to conductor (pF/m)	75	75	70	70	70
Nominal Inductance (μ H/m)	0.56	0.56	0.6	0.6	0.6
Max. Recommended Current at 25°C(Amps)	3.2	11	18	24	32
Max. Operating Voltage (Vrms)	300				

Reference Standards

UL 1666 – UL1424 FPLR

RoHS directives