

Fire Detection and Alarm System Cables

Two core, Unscreened, FPLR Type



C4172, C4173, C4174, C4175, C4176

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	Polyvinyl Chloride Core 1: Black, Core 2: Red
Sheath Material	Flame-Retardant Polyvinyl Chloride(PVC) 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	C4172	C4173	C4174	C4175	C4176
No of Cores x Conductor size (mm ²)	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5	2 x 4.0
Nom. Diameter Conductor (mm)	1.0	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. Radial Thickness Sheath (mm)	0.9	0.9	1.0	1.1	1.2
Nom. Overall Diameter (mm)	5.6	5.9	7.4	8.3	10.5
Operating Temperature (°C)	-40 to +105				
Max. Recommended Pulling Tension (N)	220	350	580	900	1300
Min. Bend Radius (install) (mm)	56	59	74	83	105
Nominal Cable Weight (kg/km)	38	43	66	93	145
Fire Retardancy	FPLR	FPLR	FPLR	FPLR	FPLR

Electrical Characteristics at 20°C

Part Number	C4172	C4173	C4174	C4175	C4176
No of Cores x Conductor size (mm ²)	2 x 0.75	2 x 1.0	2 x 1.5	2 x 2.5	2 x 4.0
Max. DC Resistance Conductor (Ω/km)	24.5	18.1	12.1	7.41	4.61
Capacitance conductor to conductor	70	70	75	75	75
Nominal Inductance	0.3	0.5	0.6	0.6	0.6
Max. Recommended Current at 25°C	5.3	11	18	24	32
Max. Operating Voltage	300				

Reference Standards

UL1424
UL1666 FPLR
RoHS directives