

Fire Detection and Alarm System Cables

Four Core, Overall Screen, FPLR Type

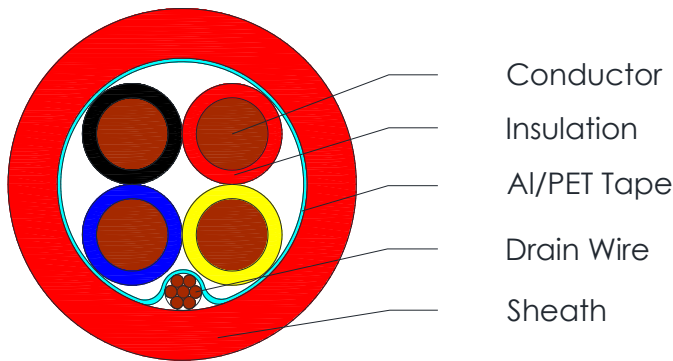


C4670, C4671, C4672, C4673, C4674

Applications

Screened four 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 Core 4: Blue
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.

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Physical Characteristics

Part Number	C4670	C4671	C4672	C4673	C4674
No of Cores x Conductor Size (mm ²)	4 x 0.75	4 x 1.0	4 x 1.5	4 x 2.5	4 x 4.0
Nom. Diameter Conductor (mm)	1.00	1.13	1.39	1.80	7 x 0.85
Nom. Radial Thickness Insulation (mm)	0.25				
Nom. Diameter Drain Wire (mm)	0.75				
Nom. Diameter Insulation (mm)	1.50	1.63	1.90	2.30	3.05
Nom. Radial Thickness Sheath (mm)	0.40	0.40	0.40	0.40	0.5
Nom. Overall Diameter (mm)	4.5	4.9	5.5	6.5	8.5
Operating Temperature (°C)	-40 to +105				
Max. Recommended Pulling Tension (N)	370	640	800	1010	1330
Min. Bend Radius (install) (mm)	45	49	55	65	85
Nominal Cable Weight (kg/km)	48.2	57.2	78.0	118.8	184.8
Fire Retardancy	FPLR	FPLR	FPLR	FPLR	FPLR

Electrical Characteristics at 20°C

Part Number	C4670	C4671	C4672	C4673	C4674
No of Cores x AWG Gauge	4 x 0.75	4 x 1.0	4 x 1.5	4 x 2.5	4 x 4.0
Max. DC Resistance Conductor (Ω /km)	24.5	18.1	12.1	7.41	4.61
Max. DC Resistance Screen (Ω /km)	52.7				
Capacitance conductor to conductor (pF/m)	190	190	190	200	200
Capacitance cond. To other cond.+screen (pF/m)	395	395	395	410	410
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