

Audio Control & Instrumentation Cable, 2C to 12C, 16AWG, Overall Screen & PVC Sheath



C91007, C91009, C91011, C91252, C91254, C91659, C94411, C94591

Applications

Screened Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS).

Cross Section Drawing



Design

Unit	Properties
Conductor	N x Bare Copper wire, 16AWG flexible
Insulation	Polyolefin Core 1: Black Core 2: Red Core 3: White Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow Core 9: Purple Core 10: Grey Core 11: Pink Core 12: Tan
Drain wire	24 AWG (7 x 32)
Screen	Aluminium/Polyester 100% Coverage
Rip cord	Nylon yarn
Sheath	Flame-Retardant Polyvinyl Chloride (PVC) Standard colour: Grey
Standard Put Up Length	305 meters

*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	C91007	C91009	C91011	C94591	C91252	C91254	C91659	C94411
No of cores	2	3	4	5	6	8	10	12
Nom. Conductor Construction (AWG)	16AWG (19 x 29)							
Nom. Radial Thickness Insulation(mm)	0.2							
Nom. Radial Thickness Sheath(mm)	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
Nom. Overall Diameter(mm)	4.6	4.9	5.3	6.0	6.8	7.6	8.5	8.8
Operating Temperature (°C)	-25 to +75							
Max. Recommended Pulling Tension (N)	262	391	520	650	780	1040	1300	1560
Min. Bend Radius (install)(mm)	46	49	53	60	68	76	85	88
Nominal Cable Weight (kg/km)	35.3	48	61.5	77.4	89.6	118.8	136.2	165.7

Electrical Characteristics at 20°C

Part Number	C91007	C91009	C91011	C94591	C91252	C91254	C91659	C94411
No of cores	2	3	4	5	6	8	10	12
Max. DC Resistance Conductor (Ω /km)	16.6							
Max. DC Resistance Screen (Ω /km)	95							
Capacitance conductor to conductor (pF/m)	105	105	90	80	80	70	70	70
Capacitance cond. To other cond.+screen (pF/m)	185	190	185	160	160	150	150	150
Nominal Inductance (l)	0.5							
Max. Recommended Current at 25°C (Amps)	6.25	6.25	5	5	4.35	4.35	4.35	4.35
Max. Operating Voltage (Vrms)	300							

Reference Standards

(BS) EN 50290-2	IEC 60332-1
IEC 60228	RoHS directives