

Audio Control & Instrumentation Cable, 2C to 20C, 14AWG, Overall Screen & PVC Sheath



C1001, C1003, C1005, C1209, C1248, C1250, C14185, C14186

Applications

Screened Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS) . UL listed E486876.

Cross Section Drawing



Design

Unit	Properties
Conductor	N x Bare Copper wire, 14AWG 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 Black Color with white number identification for cores more than 12
Drain wire	24 AWG (7 x 32) Tinned Copper
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	C1001	C1003	C1005	C1209	C1248	C1250	C14185	C14186
No of cores x 14AWG (19X27)	2	3	4	5	6	8	12	20
Nom. Diameter Conductor(mm)	1.8							
Nom. Radial Thickness Insulation(mm)	0.3							
Nom. Radial Thickness Sheath(mm)	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8
Nom. Overall Diameter(mm)	6.0	6.5	6.9	7.8	8.6	9.8	11.3	14.1
Operating Temperature (°C)	-25 to +75							
Max. Recommended Pulling Tension (N)	420	635	845	1055	1265	1685	2525	4212
Min. Bend Radius (install)(mm)	60	65	70	78	86	98	113	141
Nominal Cable Weight (kg/km)	57	79.9	102.5	127	151	197.3	295	493

Electrical Characteristics at 20°C

Part Number	C1001	C1003	C1005	C1209	C1248	C1250	C14185	C14186
No of cores x 14AWG (19X27)	2	3	4	5	6	8	12	20
Max. DC Resistance Conductor (Ω/km)	9.36							
Max. DC Resistance Screen (Ω/km)	78.5							
Capacitance conductor to conductor (pF/m)	105	100	98	97	96	95	95	95
Capacitance cond. To other cond.+screen (pF/m)	190	190	178	176	175	170	170	170
Nominal Inductance (μH/m)	0.5							
Max. Recommended Current at 25°C (Amps)	8	8	6.4	6.4	5.6	5.6	5.6	5.6
Max. Operating Voltage (Vrms)	300							

Reference Standards

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