

Audio Control & Instrumentation Cable, 2C to 20C, 18AWG Unscreened & PVC Sheath

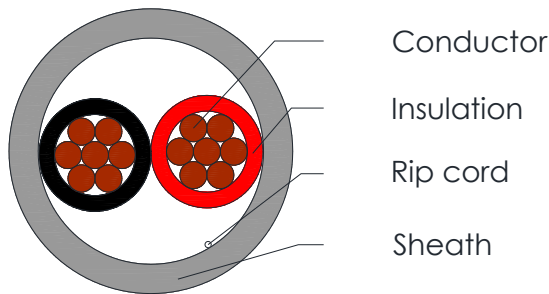


C91014, C91016, C91018, C91054, C91212, C91517, C91259, C91290, C91621, C94393, C94547, C94572, C94641

Applications

Unscreened 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, 18AWG 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
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	C91014	C91016	C91018	C91054	C91212	C91517	C91259	C94641	C91621	C94393	C91290	C94547	C94572
No of cores	2	3	4	5	6	7	8	9	10	11	12	20	24
Conductor Construction (AWG)	18 (7 x 26)												
Nom. Diameter Conductor(mm)	1.10												
Nom. Radial Thickness Insulation(mm)	0.2												
Nom. Radial Thickness Sheath(mm)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.8
Nom. Overall Diameter(mm)	3.9	4.1	4.55	5.2	5.7	5.8	5.9	6.7	7.4	7.8	8.0	9.9	11.5
Operating Temperature (°C)	-25 to +75												
Max. Recommended Pulling Tension (N)	200	299	399	500	600	700	797	900	996	1095	1195	2000	2400
Min. Bend Radius (install)(mm)	40	42	46	55	58	58	60	67	75	78	80	100	115
Nominal Cable Weight (kg/km)	27.3	36.9	47.2	58	68.2	77.6	87	95	100	115	126	207	254

Electrical Characteristics at 20°C

Part Number	C91014	C91016	C91018	C91054	C91212	C91517	C91259	C94641	C91621	C94393	C91290	C94547	C94572
No of cores	2	3	4	5	6	7	8	9	10	11	12	20	24
Max. DC Resistance Conductor (Ω/km)	26.2												
Capacitance conductor to conductor (pF/m)	52	55	45	50	50	50	50	50	50	50	50	50	50
Nominal Inductance (μH/m)	0.5												
Max. Recommended Current at 25°C (Amps)	5	5	4	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0
Max. Operating Voltage (Vrms)	300												

Reference Standards

IEC 60228	IEC 60332-1
EN 50290	RoHS directives