

Audio Control & Instrumentation Cable, 2 to 32C, 18AWG, Overall Screen & PVC Sheath

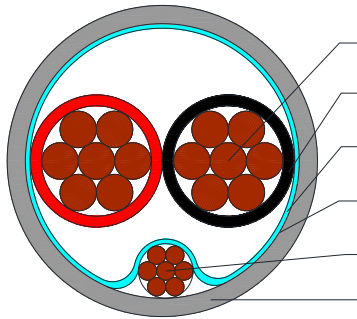


C91013, C91015, C91017, C91144, C91211, C91239, C91258, C91668, C91623, C91624, C94235, C94236, C94237, C94394, C94546

Applications

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

Cross Section Drawing



- Conductor
- Insulation
- Al/PET Tape
- Rip Cord
- Drain Wire
- Sheath



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
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	C91013	C91015	C91017	C91144	C91211	C91239	C91258	C91668	C91623	C94394	C91624	C94235	C94546	C94236	C94237
No of cores	2	3	4	5	6	7	8	9	10	11	12	16	20	24	32
Conductor Construction (AWG)	18(7 x 26)														
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	0.45	0.5	0.5	0.5	0.6	0.6	0.8	1.0
Nom. Overall Diameter(mm)	4.0	4.2	4.6	5.5	5.75	5.9	6.4	6.7	7.5	7.6	7.8	9.2	10.0	11.7	13.0
Operating Temperature (°C)	-25 to +75														
Max. Recommended Pulling Tension (N)	200	299	399	500	600	620	797	955	999	1095	1200	1600	2000	2400	3200
Min. Bend Radius (install)(mm)	40	42	46	55	58	59	64	67	75	76	78	92	100	117	130
Nominal Cable Weight (kg/km)	29.6	39.2	49.4	60.2	70.9	79	89.5	93.6	104	120	129	171	210	257	336

Electrical Characteristics at 20°C

Part Number	C91013	C91015	C91017	C91144	C91211	C91239	C91258	C91668	C91623	C94394	C91624	C94235	C94546	C94236	C94237
No of core	2	3	4	5	6	7	8	9	10	11	12	16	20	24	32
Max. DC Resistance Conductor (Ω/km)	26.2														
Max. DC Resistance Screen (Ω/km)	95														
Capacitance conductor to conductor (pF/m)	95	90	75	75	75	75	75	75	75	75	75	75	75	75	75
Capacitance cond. To Rest (pF/m)	175	170	160	145	140	140	140	140	140	140	140	140	140	140	140
Nominal Inductance (μH/m)	0.5														
Max. Recommended Current at 25°C (Amps)	5	5	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0
Max. Operating Voltage (Vrms)	300														

Reference Standards

(BS) EN 50290-2	IEC 60332-1-2 & IEC 60332-1-3
IEC 60228	RoHS directives