

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

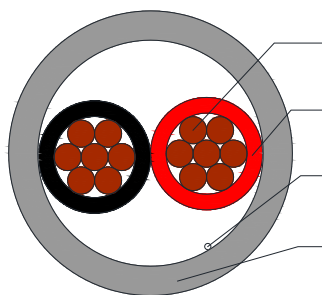


C1014, C1016, C1018, C1054, C1212, C1517, C1259, C1290, C1621, C4393, C4547, C4572, C4641

## Applications

Unscreened Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS). UL listed E486876.(Type CL2X)

## Cross Section Drawing



Conductor  
Insulation  
Rip cord  
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
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.

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



C1014, C1016, C1018, C1054, C1212, C1517, C1259, C1290, C1621, C4393, C4547, C4572, C4641

## Physical Characteristics

Part Number	C1014	C1016	C1018	C1054	C1212	C1517	C1259	C4641	C1621	C4393	C1290	C4547	C4572
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)	1.2												
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	C1014	C1016	C1018	C1054	C1212	C1517	C1259	C4641	C1621	C4393	C1290	C4547	C4572
No of cores	2	3	4	5	6	7	8	9	10	11	12	20	24
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7												
Capacitance conductor to conductor (pF/m)	52	55	45	50	50	50	50	50	50	50	50	50	50
Nominal Inductance ( $\mu$ H/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

(BS) EN 50290-2	UL1581
IEC 60228	UL listed E486876.(Type CL2X)
IEC 60332-1-2 & IEC 60332-1-3	RoHS directives