

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



C1007, C1009, C1011, C1252, C1254, C1659, C4411, C4591

## Applications

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

## 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) 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	C1007	C1009	C1011	C4591	C1252	C1254	C1659	C4411
No of cores x 16AWG (19 x 29)	2	3	4	5	6	8	10	12
Nom. Diameter Conductor(mm)	1.4							
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)	37.3	50	63.5	79.4	91.6	120.8	138.2	167.7

## Electrical Characteristics at 20°C

Part Number	C1007	C1009	C1011	C4591	C1252	C1254	C1659	C4411
No of cores x 16AWG (19 x 29)	2	3	4	5	6	8	10	12
Max. DC Resistance Conductor ( $\Omega$ /km)	15.47							
Max. DC Resistance Screen ( $\Omega$ /km)	78.5							
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 ( )	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	UL 1581
IEC 60228	UL listed E486876. (Type CL2X)
IEC 60332-1	RoHS directives