

# Audio Control & Instrumentation Cable, 2C to 12C, 16AWG, Unscreened & PVC



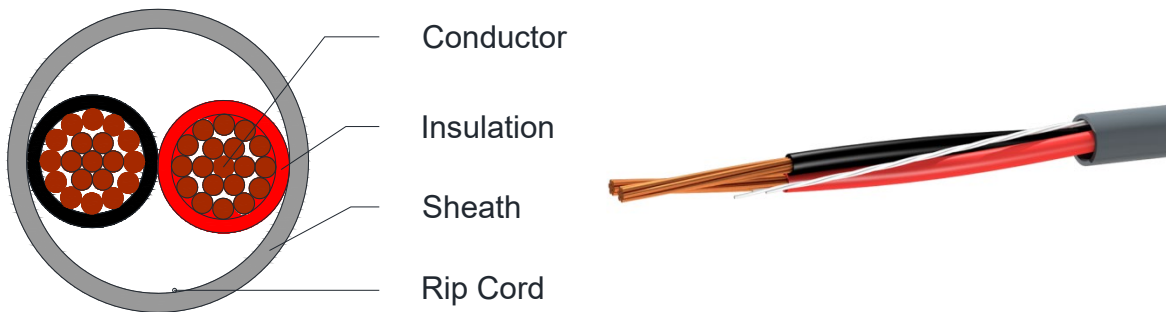
## Plenium Rated Sheath

C8008, C8010, C8012, C8253, C8255, C8410, C8638, C8698

### 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, 16AWG flexible
Insulation	Flame-Retardant Polyvinyl Chloride (PVC) 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
Rip cord	Nylon yarn
Sheath	Flame-Retardant Polyvinyl Chloride (PVC) CMP Rated 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	C8008	C8010	C8012	C8253	C8698	C8255	C8638	C8410
No of cores x 16AWG (19 x 29)	2	3	4	6	7	8	10	12
Nom. Diameter Conductor(mm)	1.4							
Nom. Radial Thickness Insulation(mm)	0.3							
Nom. Radial Thickness Sheath(mm)	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5
Nom. Overall Diameter(mm)	4.9	5.2	5.7	7.3	7.5	8.2	9.2	9.5
Operating Temperature (°C)	-25 to +75							
Max. Recommended Pulling Tension (N)	262	391	520	780	947	1040	1300	1560
Min. Bend Radius (install)(mm)	49	52	57	73	75	82	92	95
Nominal Cable Weight (kg/km)	35	7.7	61.1	89	109	118.1	135.5	161.6

### Electrical Characteristics at 20°C

Part Number	C8008	C8010	C8012	C8253	C8698	C8255	C8638	C8410
No of cores x 16AWG (19 x 29)	2	3	4	6	7	8	10	12
Max. DC Resistance Conductor ( $\Omega$ /km)	15.47							
Capacitance conductor to conductor (pF/m)	53	56	55	48	47	45	45	45
Nominal Inductance ( $\mu$ H/m)	0.5							
Max. Recommended Current at 25°C (Amps)	6.25	6.25	5.00	4.35	4.35	4.35	4.35	4.35
Max. Operating Voltage (Vrms)	300							

### Reference Standards

(BS) EN 50290-2
IEC 60228
CMP Rated
RoHS directives