

# Audio Control & Instrumentation Cable, 2C to 8C, 16AWG, Unscreen & PE Sheath

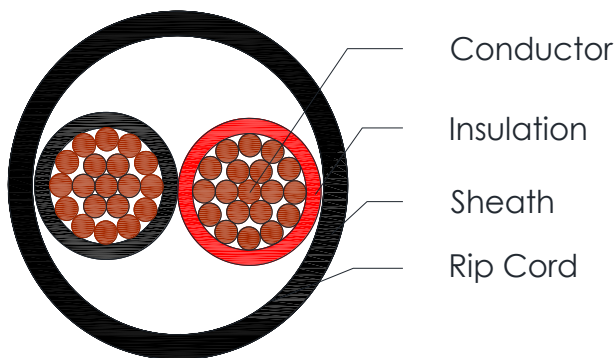


C1807, C1809, C1811, C1839, C1841

## 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             | Polyolefin<br>Core 1: Black<br>Core 2: Red<br>Core 3: White<br>Core 4: Green<br>Core 5: Brown<br>Core 6: Blue<br>Core 7: Orange<br>Core 8: Yellow |
| Rip cord               | Nylon yarn  |
| Sheath                 | PE<br>Standard colour: Black  |
| 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 8C, 16AWG, Unscreen & PE Sheath



**C1807, C1809, C1811, C1839, C1841**

## Physical Characteristics

| Part Number                          | C1807      | C1809 | C1811 | C1839 | C1841 |
|--------------------------------------|------------|-------|-------|-------|-------|
| No of cores x 16AWG (19 x 29)        | 2          | 3     | 4     | 6     | 8     |
| Nom. Diameter Conductor(mm)          | 1.4        |       |       |       |       |
| Nom. Radial Thickness Insulation(mm) | 0.2        |       |       |       |       |
| Nom. Radial Thickness Sheath(mm)     | 0.6        |       |       |       |       |
| Nom. Overall Diameter(mm)            | 4.9        | 5.2   | 5.6   | 7.1   | 7.9   |
| Operating Temperature (°C)           | -25 to +75 |       |       |       |       |
| Max. Recommended Pulling Tension (N) | 262        | 391   | 520   | 780   | 1040  |
| Min. Bend Radius (install)(mm)       | 49         | 52    | 56    | 71    | 79    |
| Nominal Cable Weight (kg/km)         | 32         | 43    | 55    | 81    | 112   |

## Electrical Characteristics at 20°C

| Part Number                                  | C1807 | C1809 | C1811 | C1839 | C1841 |
|--|-------|-------|-------|-------|-------|
| No of cores x 16AWG (19 x 29)                | 2     | 3     | 4     | 6     | 8     |
| Max. DC Resistance Conductor ( $\Omega$ /km) | 15.47 |       |       |       |       |
| Capacitance conductor to conductor (pF/m)    | 56    | 55    | 50    | 48    | 45    |
| Nominal Inductance (H)                       | 0.5   |       |       |       |       |
| Max. Recommended Current at 25°C (Amps)      | 6.25  | 6.25  | 5     | 4.35  | 4.35  |
| Max. Operating Voltage (Vrms)                | 300   |       |       |       |       |

## Reference Standards

|                 |
|-----------------|
| (BS) EN 50290-2 |
| IEC 60228       |
| RoHS directives |