

# Audio Control & Instrumentation Cable, 2C, 14AWG Unscreen, Plenum Grade PVC Sheath

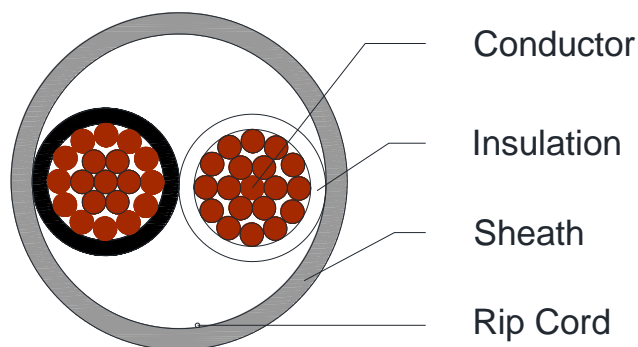


C8702, C8704, C8706, C8708, C8710

## Applications

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

## Cross Section Drawing



## Design

| Unit                   | Properties   |
|------------------------|--|
| Conductor              | Flexible Bare Copper Wire  |
| Insulation             | PVC<br>Core 1: Black<br>Core 2: White<br>Core 3: Red<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                 | Plenum Grade Flame-Retardant Polyvinyl Chloride (PVC)<br>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, 14AWG Unscreen, Plenum Grade PVC Sheath



**C8702, C8704, C8706, C8708, C8710**

## Physical Characteristics

| Part Number                          | C8702    | C8704 | C8706 | C8708 | C8710 |
|--------------------------------------|----------|-------|-------|-------|-------|
| No of cores x 14AWG (19X27)          | 2        | 3     | 4     | 6     | 8     |
| Nom. Diameter Conductor(mm)          | 1.8      |       |       |       |       |
| Nom. Radial Thickness Insulation(mm) | 0.3      |       |       |       |       |
| Nom. Radial Thickness Sheath(mm)     | 0.8      |       |       |       |       |
| Nom. Overall Diameter(mm)            | 6.4      | 6.8   | 7.4   | 8.8   | 9.5   |
| Operating Temperature (°C)           | 0 to +60 |       |       |       |       |
| Max. Recommended Pulling Tension (N) | 420      | 634   | 845   | 1266  | 1688  |
| Min. Bend Radius (install)(mm)       | 64       | 68    | 74    | 88    | 95    |
| Nominal Cable Weight (kg/km)         | 65       | 89    | 113   | 163   | 208   |

## Electrical Characteristics at 20°C

| Part Number                                  | C8702 | C8704 | C8706 | C8708 | C8710 |
|--|-------|-------|-------|-------|-------|
| Max. DC Resistance Conductor ( $\Omega$ /km) | 9.36  |       |       |       |       |
| Max. DC Resistance Screen ( $\Omega$ /km)    | 78.5  |       |       |       |       |
| Capacitance conductor to conductor (pF/m)    | 105   | 103   | 98    | 103   | 103   |
| Max. Recommended Current at 25°C (Amps)      | 8     | 8     | 6.4   | 5.6   | 5.6   |
| Max. Operating Voltage (Vrms)                | 300   |       |       |       |       |

## Reference Standards

|                               |
|-------------------------------|
| (BS) EN 50290-2               |
| IEC 60228                     |
| NFC 725.154(A), ANSI/NFPA 262 |
| RoHS directives               |