

# Audio Control & Instrumentation Cable

## 1 pr 22 to 12AWG, Overall Screen, SWA Armour, HFFR Sheath

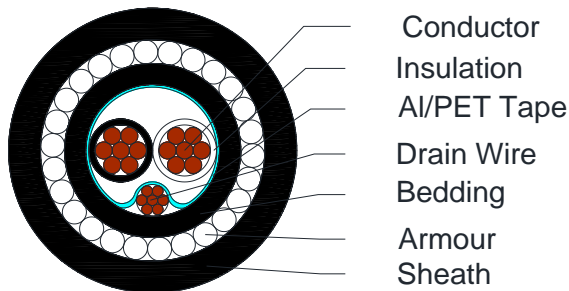


C2003, C2005, C2008, C2010, C2011, C2013

### Applications

Screened one pair cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS)

### Cross Section Drawing



### Design

| Unit                   | Properties   |
|------------------------|--|
| Conductor              | Tinned Copper Wires One twisted pair                   |
| Insulation             | Polyolefin<br>Core 1: Black<br>Core 2: White           |
| Screen                 | Aluminium/Polyester Tape                               |
| Drain Wire             | Tinned Copper Wire                                     |
| Bedding                | Halogen Free Flame-Retardant (HFFR)                    |
| Armour                 | Galvanized Steel wire                                  |
| Sheath                 | Uv Resistant Halogen Free Flame Retardant (HFFR) 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

## I pr 22 to 12AWG, Overall Screen, SWA Armour, HFFR Sheath



C2003, C2005, C2008, C2010, C2011, C2013

### Physical Characteristics

| Part Number                           | C2003       | C2005 | C2008 | C2010 | C2011 | C2013 |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|
| Number of pairs                       | 1           | 1     | 1     | 1     | 1     | 1     |
| Conductor size (AWG)                  | 12          | 14    | 16    | 18    | 20    | 22    |
| Conductor configuration (AWG)         | 19x25       | 19x27 | 19x29 | 7x26  | 7x28  | 7x30  |
| Nom. Radial Thickness Insulation (mm) | 0.8         | 0.8   | 0.8   | 0.5   | 0.4   | 0.4   |
| Screen Coverage (%)                   | 115         |       |       |       |       |       |
| Drain wire size (AWG)                 | 24 (7 x 32) |       |       |       |       |       |
| Nom. Radial Thickness Bedding (mm)    | 0.9         | 0.9   | 0.8   | 0.8   | 0.8   | 0.6   |
| Nom. Bedding Diameter (mm)            | 9.9         | 8.8   | 7.8   | 6.0   | 5.3   | 4.8   |
| Nom. SWA wire Diameter (mm)           | 0.90        |       |       |       |       |       |
| Nom. Overall diameter (mm)            | 14.1        | 13.0  | 12.0  | 10.2  | 9.3   | 8.8   |
| Operating Temperature (°C)            | -25 / +75   |       |       |       |       |       |

### Electrical Characteristics

| Part Number                                  | C2003 | C2005 | C2008 | C2010 | C2011 | C2013 |
|--|-------|-------|-------|-------|-------|-------|
| Max. DC Resistance Conductor (Ω/km)          | 5.61  | 9.36  | 15.47 | 22.7  | 35.75 | 57.4  |
| Max. DC Resistance Screen (Ω/km)             | 78.5  |       |       |       |       |       |
| Capacitance conductor to conductor (pF/m)    | 135   | 115   | 95    | 108   | 110   | 95    |
| Capacitance cond. to other cond.+scrn (pF/m) | 250   | 218   | 185   | 200   | 208   | 185   |
| Nominal Inductance                           | 0.6   |       |       |       |       |       |
| Max. Recommended Current at 25°C (μH/m)      | 13    | 9.5   | 7.1   | 5.2   | 3.9   | 2.9   |
| Max. Operating Voltage (Amps)                | 600   | 600   | 300   | 300   | 300   | 300   |

### Reference Standards

|                  |
|------------------|
| (BS) EN 50290-2  |
| EN 60228         |
| IEC 60754-1 & 2  |
| IEC 61034        |
| IEC 60332-3-24   |
| EN 60811-HD21.14 |
| RoHS directives  |