

Audio Control & Instrumentation Cable, 2C to 8C, 16AWG, Overall Screen & LSF Sheath

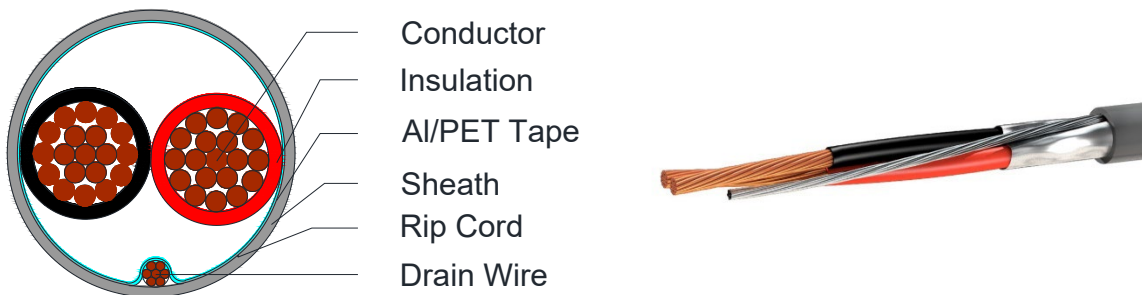


C4153, C4154, C4155, C4156, C4157

Applications

Screened 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 Core 1: Black Core 2: Red Core 3: White Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow |
| Drain wire | 24 AWG (7 x 32) Tinned Copper |
| Screen | Aluminium/Polyester 100% Coverage |
| Rip cord | Nylon yarn |
| Sheath | LSF 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 | C4153 | C4154 | C4155 | C4156 | C4157 |
|--------------------------------------|------------|-------|-------|-------|-------|
| 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) | 0.4 | | | | |
| Nom. Overall Diameter(mm) | 4.6 | 4.9 | 5.3 | 6.8 | 7.6 |
| Operating Temperature (°C) | -25 to +75 | | | | |
| Max. Recommended Pulling Tension (N) | 262 | 391 | 520 | 780 | 1040 |
| Min. Bend Radius (install)(mm) | 46 | 49 | 53 | 68 | 76 |
| Nominal Cable Weight (kg/km) | 37.3 | 50 | 63.5 | 91.6 | 120.8 |

Electrical Characteristics at 20°C

| Part Number | C4153 | C4154 | C4155 | C4156 | C4157 |
|--|-------|-------|-------|-------|-------|
| No of cores x 16AWG (19 x 29) | 2 | 3 | 4 | 6 | 8 |
| Max. DC Resistance Conductor (Ω /km) | 15.47 | | | | |
| Max. DC Resistance Screen (Ω /km) | 78.5 | | | | |
| Capacitance conductor to conductor (pF/m) | 105 | 105 | 90 | 80 | 80 |
| Capacitance cond. To other cond.+screen (pF/m) | 185 | 190 | 185 | 160 | 160 |
| Nominal Inductance (l) | 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

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|-----------------|
| (BS) EN 50290-2 |
| IEC 60228 |
| IEC 60332-1 |
| RoHS directives |