

Audio Control & Instrumentation Cable 2C to 8C, 22AWG, Unscreened,

Plenum Grade PVC Sheath

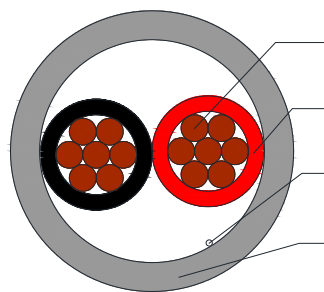


C8742, C8744, C8746, C8748, C8750

Applications

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

Cross Section Drawing



Conductor

Insulation

Rip cord

Sheath



Design

| Unit | Properties |
|------------------------|--|
| Conductor | N x Bare Copper wire, 22AWG flexible |
| Insulation | 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 |
| Rip Cord | Nylon Yarn |
| Sheath Material | Plenum Grade Flame-Retardant Polyvinyl Chloride (PVC) 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 | C8742 | C8744 | C8746 | C8748 | C8750 |
|---------------------------------------|-----------|-------|-------|-------|-------|
| No of cores x 22AWG (7 x 30) | 2 | 3 | 4 | 6 | 8 |
| Nom. Diameter Conductor (mm) | 0.75 | | | | |
| Nom. Radial Thickness Insulation (mm) | 0.30 | | | | |
| Nom. Radial Thickness Sheath (mm) | 0.45 | 0.45 | 0.45 | 0.65 | 0.65 |
| Nom. Overall Diameter (mm) | 3.6 | 3.8 | 4.2 | 5.3 | 5.7 |
| Operating Temperature (°C) | -25 / +75 | | | | |
| Max. Recommended Pulling Tension (N) | 50 | 75 | 100 | 150 | 200 |
| Min. Bend Radius (install) (mm) | 36 | 38 | 42 | 53 | 57 |
| Nominal Cable Weight (kg/km) | 15.2 | 20.1 | 25.4 | 40.4 | 51.0 |

Electrical Characteristics

| Part Number | C8742 | C8744 | C8746 | C8748 | C8750 |
|--|-------|-------|-------|-------|-------|
| No of cores x 22AWG (7 x 30) | 2 | 3 | 4 | 6 | 8 |
| Max. DC Resistance Conductor (Ω /km) | 57.4 | | | | |
| Capacitance conductor to conductor (Pf/m) | 70 | 68 | 67 | 62 | 62 |
| Nominal Inductance (μ H/m) | 0.5 | | | | |
| Max. Recom. Current @ 25°C (Amps) | 2.8 | 2.8 | 2.25 | 1.95 | 1.95 |
| Max. Operating Voltage (Vrms) | 300 | | | | |

Reference Standards

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