

Audio Control & Instrumentation Cable, 2C to 20C, 18AWG Unscreened & PVC Sheath

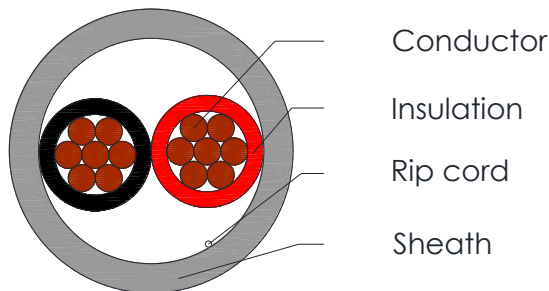


C1014, C1016, C1018, C1054, C1212, C1517, C1259, C1290, C1621, C4393, C4547, C4572, C4641

Applications

Unscreened Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS). UL listed E486876.

Cross Section Drawing



Design

| Unit | Properties |
|------------------------|--|
| Conductor | N x Bare Copper wire, 18AWG 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 Core 9: Purple Core 10: Grey Core 11: Pink Core 12: Tan Black Color with white number identification for cores more than 12 |
| Rip cord | Nylon yarn |
| Sheath | 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 | C1014 | C1016 | C1018 | C1054 | C1212 | C1517 | C1259 | C4641 | C1621 | C4393 | C1290 | C4547 | C4572 |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No of cores | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 20 | 24 |
| Conductor Construction (AWG) | 18 (7 x 26) | | | | | | | | | | | | |
| Nom. Diameter Conductor(mm) | 1.2 | | | | | | | | | | | | |
| Nom. Radial Thickness Insulation(mm) | 0.2 | | | | | | | | | | | | |
| Nom. Radial Thickness Sheath(mm) | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 |
| Nom. Overall Diameter(mm) | 3.9 | 4.1 | 4.55 | 5.2 | 5.7 | 5.8 | 5.9 | 6.7 | 7.4 | 7.8 | 8.0 | 9.9 | 11.5 |
| Operating Temperature (°C) | -25 to +75 | | | | | | | | | | | | |
| Max. Recommended Pulling Tension (N) | 200 | 299 | 399 | 500 | 600 | 700 | 797 | 900 | 996 | 1095 | 1195 | 2000 | 2400 |
| Min. Bend Radius (install) (mm) | 40 | 42 | 46 | 55 | 58 | 58 | 60 | 67 | 75 | 78 | 80 | 100 | 115 |
| Nominal Cable Weight (kg/km) | 27.3 | 36.9 | 47.2 | 58 | 68.2 | 77.6 | 87 | 95 | 100 | 115 | 126 | 207 | 254 |

Electrical Characteristics at 20°C

| Part Number | C1014 | C1016 | C1018 | C1054 | C1212 | C1517 | C1259 | C4641 | C1621 | C4393 | C1290 | C4547 | C4572 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No of cores | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 20 | 24 |
| Max. DC Resistance Conductor (Ω/km) | 22.7 | | | | | | | | | | | | |
| Capacitance conductor to conductor (pF/m) | 52 | 55 | 45 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Nominal Inductance (μH/m) | 0.5 | | | | | | | | | | | | |
| Max. Recommended Current at 25°C (Amps) | 5 | 5 | 4 | 4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.0 | 3.0 |
| Max. Operating Voltage (Vrms) | 300 | | | | | | | | | | | | |

Reference Standards

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|-----------------|-----------------|
| (BS) EN 50290-2 | UL1581 |
| IEC 60228 | RoHS directives |
| IEC 60332-1 | |