

Applications

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

Sector - BT BMS-TEC™

Audio, Control & Instrumentation

Standard References

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

Design

1. Conductor

N x Bare Copper wire,
22AWG flexible

2. 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

3. Drain Wire

24 AWG (7 x 32)
Tinned Copper

4. Ripcord

5. Screen

Aluminium/Polyester
100% Coverage

6. Sheath Material

Flame-Retardant
Polyvinyl Chloride (PVC)
Standard colour: grey

Standard Put Up Length

305 metres

Physical Characteristics

| BTCL Part Number | Unit | C1226 | C1228 | C1230 | C1264 | C1232 |
|----------------------------------|------|-------|-------|-------|-------|-------|
| No of cores x 22AWG (7 x 30) | | 2 | 3 | 4 | 6 | 8 |
| Nom. Diameter Conductor | mm | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Nom. Radial Thickness Insulation | mm | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Nom. Radial Thickness Sheath | mm | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Nom. Overall Diameter | mm | 3.3 | 3.5 | 3.8 | 4.5 | 4.9 |

Electrical Characteristics

| BTCL Part Number | Unit | C1226 | C1228 | C1230 | C1264 | C1232 |
|--|------|-------|-------|-------|-------|-------|
| No of cores x 22AWG (7 x 30) | | 2 | 3 | 4 | 6 | 8 |
| Max. DC Resistance Conductor | Ω/km | 52.68 | 52.68 | 52.68 | 52.68 | 52.68 |
| Max. DC Resistance Screen | Ω/km | 78.5 | 78.5 | 78.5 | 78.5 | 78.5 |
| Capacitance conductor to conductor | pF/m | 126 | 70 | 64 | 64 | 65 |
| Capacitance cond. To other cond. +screen | pF/m | 226 | 132 | 120 | 120 | 115 |
| Nominal Inductance | μH/m | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Max. Recommended Current at 25°C | Amps | 2.8 | 2.8 | 2.25 | 1.95 | 1.95 |
| Max. Operating Voltage | Vrms | 300 | 300 | 300 | 300 | 300 |

Miscellaneous

| BTCL Part Number | Unit | C1226 | C1228 | C1230 | C1264 | C1232 |
|----------------------------------|-------|-----------|-----------|-----------|-----------|-----------|
| No of cores x 22AWG (7 x 30) | | 2 | 3 | 4 | 6 | 8 |
| Operating Temperature | °C | -25 / +75 | -25 / +75 | -25 / +75 | -25 / +75 | -25 / +75 |
| Max. Recommended Pulling Tension | N | 80 | 121 | 187 | 243 | 324 |
| Min. Bend Radius (install) | mm | 31 | 33 | 36 | 40 | 45 |
| Nominal Cable Weight | kg/km | 15.7 | 20 | 25.3 | 34.3 | 42.6 |