

### Applications

Unscreened 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,  
16AWG 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. Ripcord

#### 4. Sheath Material

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

#### Standard Put Up Length

305 metres

### Physical Characteristics

| BTCL Part Number                 | Unit | C1008 | C1010 | C1012 | C1253 | C1255 |
|----------------------------------|------|-------|-------|-------|-------|-------|
| No of cores x 16AWG (19 x 29)    |      | 2     | 3     | 4     | 6     | 8     |
| Nom. Diameter Conductor          | mm   | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   |
| Nom. Radial Thickness Insulation | mm   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| Nom. Radial Thickness Sheath     | mm   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| Nom. Overall Diameter            | mm   | 4.5   | 4.75  | 5.25  | 6.7   | 7.5   |

### Electrical Characteristics

| BTCL Part Number                   | Unit | C1008 | C1010 | C1012 | C1253 | C1255 |
|------------------------------------|------|-------|-------|-------|-------|-------|
| No of cores x 16AWG (19 x 29)      |      | 2     | 3     | 4     | 6     | 8     |
| Max. DC Resistance Conductor       | Ω/km | 15.47 | 15.47 | 15.47 | 15.47 | 15.47 |
| Capacitance conductor to conductor | pF/m | 58    | 56    | 55    | 54    | 53    |
| Nominal Inductance                 | μH/m | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| Max. Recommended Current at 25°C   | Amps | 6.25  | 6.25  | 5     | 4.35  | 4.35  |
| Max. Operating Voltage             | Vrms | 300   | 300   | 300   | 300   | 300   |

### Miscellaneous

| BTCL Part Number                 | Unit  | C1008     | C1010     | C1012     | C1253     | C1255     |
|----------------------------------|-------|-----------|-----------|-----------|-----------|-----------|
| No of cores x 16AWG (19 x 29)    |       | 2         | 3         | 4         | 6         | 8         |
| Operating Temperature            | °C    | -25 / +75 | -25 / +75 | -25 / +75 | -25 / +75 | -25 / +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 | 35        | 47.7      | 61.1      | 89        | 118.1     |