

### 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,  
20AWG 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 | C1020 | C1022 | C1024 | C1261 | C1263 |
|----------------------------------|------|-------|-------|-------|-------|-------|
| No of cores x 20AWG (7 x 28)     |      | 2     | 3     | 4     | 6     | 8     |
| Nom. Diameter Conductor          | mm   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 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   | 3.4   | 3.6   | 4.0   | 4.9   | 5.3   |

### Electrical Characteristics

| BTCL Part Number                   | Unit | C1020 | C1022 | C1024 | C1261 | C1263 |
|------------------------------------|------|-------|-------|-------|-------|-------|
| No of cores x 20AWG (7 x 28)       |      | 2     | 3     | 4     | 6     | 8     |
| Max. DC Resistance Conductor       | Ω/km | 35.75 | 35.75 | 35.75 | 35.75 | 35.75 |
| Capacitance conductor to conductor | pF/m | 39    | 47    | 47    | 45    | 45    |
| Nominal Inductance                 | μH/m | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| Max. Recommended Current at 25°C   | Amps | 3.75  | 3.75  | 3     | 2.6   | 2.6   |
| Max. Operating Voltage             | Vrms | 300   | 300   | 300   | 300   | 300   |

### Miscellaneous

| BTCL Part Number                 | Unit  | C1020     | C1022     | C1024     | C1261     | C1263     |
|----------------------------------|-------|-----------|-----------|-----------|-----------|-----------|
| No of cores x 20AWG (7 x 28)     |       | 2         | 3         | 4         | 6         | 8         |
| Operating Temperature            | °C    | -25 / +75 | -25 / +75 | -25 / +75 | -25 / +75 | -25 / +75 |
| Max. Recommended Pulling Tension | N     | 112       | 168       | 224       | 336       | 448       |
| Min. Bend Radius (install)       | mm    | 35        | 37        | 41        | 50        | 55        |
| Nominal Cable Weight             | kg/km | 19.7      | 26.2      | 33.1      | 47.9      | 60.6      |