

# BCC BMS-Tec™ - Low Capacitance RS-485 Computer Cables

2 – 3 – 4 or 6 pairs

AWG 24, Flexible Tinned Copper, Individually Screened, PVC Sheath

BCC Part No: C1382 – C1383 – C1384 – C1386



BRITISH CABLES COMPANY

## Applications

Building Management Systems (BMS), Access Control, Instrumentation

## Sector

BCC BMS-TEC™

## Standard References

IEC 60332-1  
RoHS directives  
(BS)EN 50290

## Design

### 1. Conductor

Tinned Copper wires  
24 AWG (7 x 32)  
N twisted pairs

### 2. Insulation

Foam PE  
Pair 1: Black/Red  
Pair 2: Black/White  
Pair 3: Black/Green  
Pair 4: Black/Blue  
Pair 5: Black/Yellow  
Pair 6: Black/Brown

### 3. Drain Wire

Tinned Copper 24AWG (7 x 32)

### 4. Screen

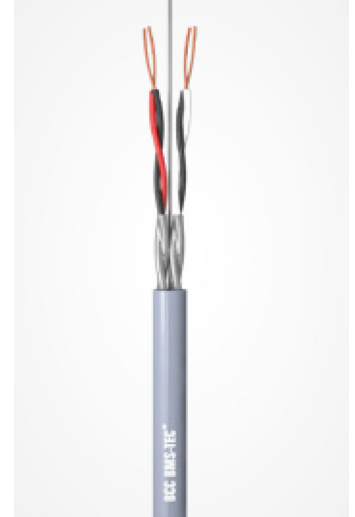
Each pair individually screened with an Aluminium/Polyester foil  
100% Coverage

### 5. Sheath Material

Polyvinyl Chloride (PVC)  
Standard colour: Grey

### Standard Put Up Length

305 metres



## Physical Characteristics

| BCC Part Number                  | Unit | C1382 | C1383 | C1384 | C1386 |
|----------------------------------|------|-------|-------|-------|-------|
| Number of pairs                  |      | 2     | 3     | 4     | 6     |
| Conductor size                   | AWG  | 24    | 24    | 24    | 24    |
| Nom. Diameter Conductor          | mm   | 0.6   | 0.6   | 0.6   | 0.6   |
| Nom. Radial Thickness Insulation | mm   | 0.47  | 0.47  | 0.47  | 0.47  |
| Nom. Radial Thickness Sheath     | mm   | 0.6   | 0.6   | 0.6   | 0.6   |
| Nom. Overall Diameter            | mm   | 6.7   | 8.4   | 9.2   | 10.6  |

## Electrical Characteristics

| BCC Part Number                         | Unit | C1382 | C1383 | C1384 | C1386 |
|---|------|-------|-------|-------|-------|
| No of pairs x 22AWG                     |      | 2     | 3     | 4     | 6     |
| Nominal Impedance                       | Ω    | 100   | 100   | 100   | 100   |
| Max. DC Resistance Conductor            | Ω/km | 82.7  | 82.7  | 82.7  | 82.7  |
| Max. DC Resistance Screen               | Ω/km | 78.5  | 78.5  | 78.5  | 78.5  |
| Capacitance conductor to conductor      | pF/m | 41    | 41    | 41    | 41    |
| Capacitance cond. To other cond.+screen | pF/m | 76    | 76    | 76    | 76    |
| Max. Recommended Current at 25°C        | 0.6  | 2.5   | 2.5   | 2.5   | 2.5   |
| Max. Operating Voltage                  | Vrms | 300   | 300   | 300   | 300   |

## Miscellaneous

| BCC Part Number                  | Unit  | C1382     | C1383     | C1384     | C1386     |
|----------------------------------|-------|-----------|-----------|-----------|-----------|
| No of pairs x conductor AWG size |       | 2         | 3         | 4         | 6         |
| Operating Temperature            | °C    | -25 / +75 | -25 / +75 | -25 / +75 | -25 / +75 |
| Max. Recommended Pulling Tension | N     | 80        | 110       | 140       | 200       |
| Min. Bend Radius (install)       | mm    | 67        | 84        | 92        | 106       |
| Nominal Weight                   | kg/km | 41.8      | 59.4      | 75.5      | 104.8     |



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