

# BCC BMS-Tec™ - Cables for EIA RS-232 Applications

1 – 2 – 3 – 4 – 5 - 6 – 7 or 8 pairs

24AWG (7 x 32), Flexible Tinned Copper, Overall Screen, PVC Sheath

BCC Part No: C1181 – C1182 – C1183 – C1184 – C1185 – C1186 – C1187 – C1188



## 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

N x 2 x Tinned Copper wire,  
24AWG flexible (7x32)

### 2. Insulation

Polyvinyl Chloride (PVC)  
Pair 1: Black & Red  
Pair 2: Black & White  
Pair 3: Black & Green  
Pair 4: Black & Blue  
Pair 5: Black & Yellow  
Pair 6: Black & Brown  
Pair 7: Black & Orange  
Pair 8: Red & White

### 3. Drain Wire

24 AWG (7 x 32) Tinned Copper

### 4. Screen

Aluminium/Polyester  
100% Coverage

### 5. Sheath Material

Polyvinyl Chloride (PVC)

### Standard Put Up Length

305 metres



## Physical Characteristics

| BCC Part Number                  | Unit | C1181 | C1182 | C1183 | C1184 | C1185 | C1186 | C1187 | C1188 |
|----------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Number of pairs                  |      | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Nom. Diameter Conductor          | mm   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| Nom. Radial Thickness Insulation | mm   | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  |
| Nom. Radial Thickness Sheath     | mm   | 0.8   | 0.8   | 0.8   | 0.6   | 0.6   | 0.4   | 0.4   | 0.4   |
| Nom. Overall Diameter            | mm   | 4.0   | 5.6   | 5.9   | 6.7   | 7.3   | 7.4   | 7.5   | 8.3   |

## Electrical Characteristics

| BCC Part Number                         | Unit | C1181 | C1182 | C1183 | C1184 | C1185 | C1186 | C1187 | C1188 |
|---|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Number of pairs                         |      | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Max. DC Resistance Conductor            | Ω/km | 88    | 88    | 88    | 88    | 88    | 88    | 88    | 88    |
| Max. DC Resistance Screen               | Ω/km | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  | 78.4  |
| Nominal Impedance                       | Ω    | 75    | 75    | 75    | 75    | 75    | 75    | 75    | 75    |
| Capacitance core to core                | pF/m | 135   | 76    | 76    | 80    | 80    | 80    | 80    | 80    |
| Capacitance core to other cores.+screen | pF/m | 275   | 122   | 122   | 130   | 130   | 130   | 130   | 130   |
| Nominal Inductance                      | μH/m | 0.62  | 0.62  | 0.62  | 0.62  | 0.62  | 0.62  | 0.62  | 0.5   |
| Nominal Velocity of Propagation         | %    | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    |
| Max. Recommen. Current @ 25°C           | Amps | 1.76  | 1.76  | 1.76  | 1.5   | 1.5   | 1.1   | 1.1   | 1.1   |
| Max. Operating Voltage                  | Vrms | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   |

## Miscellaneous

| BCC Part Number                 | Unit  | C1181     | C1182 | C1183 | C1184 | C1185 | C1186 | C1187 | C1188 |
|---------------------------------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Number of pairs                 |       | 1         | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Max. Recommend. Pulling Tension | N     | 45        | 90    | 135   | 180   | 225   | 270   | 315   | 360   |
| Min. Bend Radius (install)      | mm    | 40        | 56    | 59    | 67    | 73    | 74    | 75    | 83    |
| Nominal Cable Weight            | kg/km | 18        | 28    | 39    | 48    | 57    | 65    | 73    | 85    |
| Operating Temperature           | °C    | -25 / +75 |       |       |       |       |       |       |       |



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