

# BCC Data-Tec™ - Networking Cable - U/UTP

4 Pair Cat 6 U/UTP Cable - Eca

Eca  
DoP: BCC1026



## Applications

Suitable for internal use of Local Area Networks and Analogue & Digital video applications, supporting Gigabit Ethernet and POE.

## Category

6 Data Cables

## Standard References

ANSI/TIA-568-C.2  
ISO/IEC 11801 2ND edition  
EN50173-1 & EN50288-6-1  
EN 50575:2014/A1:2016  
IEC 60754-1&2  
IEC 61034-1  
RoHS 2002/95/EC

## Design

### 1. Conductor

Solid annealed copper

### 2. Insulation

Pair 1: WHITE-Blue/Blue  
Pair 2: WHITE-Orange/Orange  
Pair 3: WHITE-Green/Green  
Pair 4: WHITE-Brown/Brown

### 3. Cross member

Polyethylene

### 4. Ripcord

Nylon

### 5. Sheath

LSZH

## Standard Put Up Length

305 metres



## Physical Characteristics

| Conductor Diameter<br>Nom. (mm) | Insulation Diameter<br>Nom. (mm) | Overall Diameter<br>Nom. (mm) | Cable Weight Nom.<br>(Kg/Km) | Temperature Range<br>(°C) | Min. Bend Radius (install)<br>(mm) |
|---------------------------------|----------------------------------|-------------------------------|------------------------------|---------------------------|------------------------------------|
| 0.51 (±0.01)                    | 0.93 (±0.05)                     | 5.9 (±0.2)                    | 40                           | -10 ~ +60                 | 8 X OD                             |

## Electrical Characteristics at 20°C (part 1)

| Impedance<br>(Ω)           | Max. Conductor<br>DC Resistance (Ω/km) | Mutual Capacitance at<br>1KHz (nF/100m) | NVP<br>(%) | Min. Insulation Resistance<br>(MΩ*km) | Max. Resistance<br>Unbalance (%) |
|----------------------------|----------------------------------------|-----------------------------------------|------------|---------------------------------------|----------------------------------|
| 100±15<br>(1MHz to 100MHz) | 95                                     | 5.6                                     | 65         | 5000                                  | 2.0                              |

## Electrical Characteristics at 20°C (part 2)

| Frequency<br>(MHz) | Nominal<br>Attenuation<br>(dB/100m) | Minimum<br>NEXT<br>(dB) | Minimum<br>PSNEXT<br>(dB) | Minimum<br>ELFEXT<br>(dB) | Minimum<br>PSELFEXT<br>(dB) | Min. Return<br>Loss<br>(dB) | Maximum<br>SKEW<br>(ns/100m) |
|--------------------|-------------------------------------|-------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|------------------------------|
| 1                  | 2.0                                 | 74.3                    | 72.3                      | 67.8                      | 64.8                        | 20.0                        | 45                           |
| 4                  | 3.8                                 | 65.3                    | 63.3                      | 55.8                      | 52.8                        | 23.0                        | 45                           |
| 8                  | 5.3                                 | 60.8                    | 58.8                      | 49.7                      | 46.7                        | 24.5                        | 45                           |
| 10                 | 6.0                                 | 59.3                    | 57.3                      | 47.8                      | 44.8                        | 25.0                        | 45                           |
| 16                 | 7.6                                 | 56.2                    | 54.2                      | 43.7                      | 40.7                        | 25.0                        | 45                           |
| 20                 | 8.5                                 | 54.8                    | 52.8                      | 41.8                      | 38.8                        | 25.0                        | 45                           |
| 25                 | 9.5                                 | 53.3                    | 51.3                      | 39.8                      | 36.8                        | 24.3                        | 45                           |
| 31.25              | 10.7                                | 51.9                    | 49.9                      | 37.9                      | 34.9                        | 23.6                        | 45                           |
| 62.5               | 15.4                                | 47.4                    | 45.4                      | 31.9                      | 28.9                        | 21.5                        | 45                           |
| 100                | 19.8                                | 44.3                    | 42.3                      | 27.8                      | 24.8                        | 20.1                        | 45                           |
| 200                | 29.0                                | 39.8                    | 37.8                      | 21.8                      | 18.8                        | 18.0                        | 45                           |
| 250                | 32.8                                | 38.3                    | 36.3                      | 19.8                      | 16.8                        | 17.3                        | 45                           |



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