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

4 Pair Cat 6 U/UTP Cable - Dca-s1a, d0, a1

Dca-s1a, d0, a1
DoP: BCC1006

CPR COMPLIANT

BCC
BRITISH CABLES COMPANY

## 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

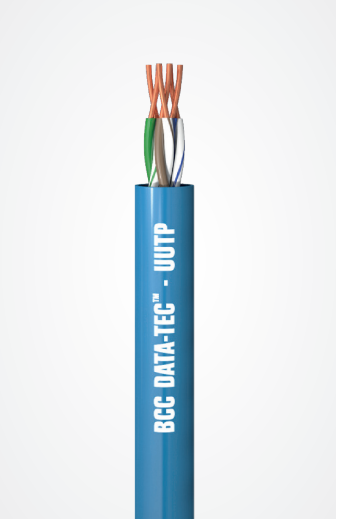
**2. Insulation**
Pair 1: WHITE-Blue/Blue
Pair 2: WHITE-Orange/Orange
Pair 3: WHITE-Green/Green
Pair 4: WHITE-Brown/Brown

**3. Cross member**
Polyethylene

**4. Ripcord**
Nylon

**5. Sheath**
LSZH

## Standard Put Up Length
305 metres




### Physical Characteristics

| Conductor Diameter Nom. (mm) | Insulation Diameter Nom. (mm) | Overall Diameter Nom. (mm) | Cable Weight Nom. (Kg/Km) | Temperature Range (°C) | Min. Bend Radius (install) (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 (Ω) | Max. Conductor DC Resistance (Ω/km) | Mutual Capacitance at 1KHz (nF/100m) | NVP (%) | Min. Insulation Resistance (MΩ*km) | Max. Resistance Unbalance (%) |
|---|---|---|---|---|---|
| 100±15 (1MHz to 100MHz ) | 95 | 5.6 | 65 | 5000 | 2.0 |

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

| Frequency (MHz) | Nominal Attenuation (dB/100m) | Minimum NEXT (dB) | Minimum PSNEXT (dB) | Minimum ELFEXT (dB) | Minimum PSELFEXT (dB) | Min. Return Loss (dB) | Maximum SKEW (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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