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

4 Pair Cat 6 U/UTP Cable - Eca

Eca
DoP: BCC1026

CPR COMPLIANT

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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