

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

4 Pair Cat 6A U/FTP Cable - Eca



Eca
DoP: BCC1053



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. Individual Pair Screening

Al Foil

4. Cross member

Polyethylene

5. Drain Wire

Tinned Copper

6. Ripcord Nylon

7. Sheath LSZH - Violet

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)
23 AWG	1.35 (±0.2)	7.8 (±0.5)	50	-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) 100±22 (300MHz to 500MHz)	93.8	5.6	65	5000	2.5

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	75.3	72.3	68.0	65.0	20.0	45
4	3.7	66.3	63.3	56.0	53.0	23.0	45
10	5.9	60.3	57.3	48.0	45.0	25.0	45
16	7.4	57.2	54.2	43.9	40.9	25.0	45
20	8.3	55.8	52.8	42.0	39.0	25.0	45
31.25	10.4	52.9	49.9	38.1	35.1	23.6	45
62.5	14.9	48.4	45.4	32.1	29.1	21.5	45
100	19.0	45.3	42.3	28.0	25.0	20.10	45
200	27.5	40.8	37.8	22.0	19.0	18.0	45
250	31.0	39.3	36.3	20.0	17.0	17.3	45
300	34.2	38.1	35.1	18.5	15.5	17.3	45
500	45.3	34.8	31.8	14.0	11.0	17.3	45



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