

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

4 Pair Cat 5e External U/UTP Cable - Fca



Fca  
DoP: BCC1009



## Applications

This cable is suitable for external use of Local Area Networks and Analogue & Digital video applications

## Category

5e Data Cables

## Standard References

ANSI/TIA-568-C.2  
ISO/IEC 11801 2ND edition  
EN50173-1 & EN50288-3-1  
EN 50575:2014/A1:2016  
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. Ripcord**  
Nylon
- 4. Sheath**  
Black Polyethylene (UV Resistant)

## 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)
0.49 (±0.01)	0.88 (±0.05)	5.00 (±0.2)	28	-20 ~ +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)	98	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	65.3	62.3	63.8	60.8	20.0	45
4	4.1	56.3	55.3	51.8	48.8	23.0	45
8	5.8	51.8	48.8	45.7	42.7	24.5	45
10	6.5	50.3	47.3	43.8	40.8	25.0	45
16	8.2	47.2	44.2	39.7	36.7	25.0	45
20	9.3	45.8	42.8	37.8	34.8	25.0	45
25	10.4	44.3	41.3	35.8	32.8	24.3	45
31.25	11.7	42.9	39.9	33.9	30.9	23.6	45
62.5	17.0	38.4	35.4	27.9	24.9	21.5	45
100	22	35.3	32.3	23.8	20.8	20.1	45



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