

Applications

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

Sector - BT Data-TEC®

Category6a Data Cables

Standards

- ANSI/TIA-568-C.2
- ISO/IEC 11801 2ND edition
- EN50173-1 & EN50288-6-1
- IEC 60332-1
- IEC 60754-1&2
- IEC 61034-1
- RoHS 2002/95/EC

Design

1. Conductor

Solid annealed copper

2. Insulation - HDPE

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

3. Cross Filler -

PE

4. Core Wrapping

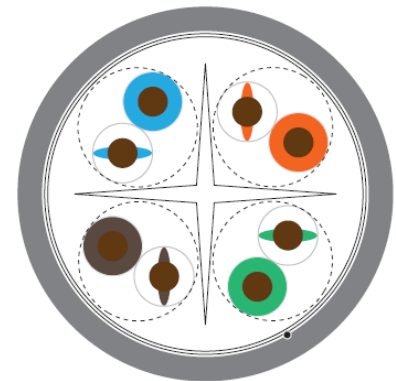
PET + Mylar(with gapped metalized coating)

5. Ripcord

Nylon

6. Sheath

PVC/LSZH



Standard Put-Up Length

305m

(Sheath colour can be customized)

Note: ® BT Data-Tec is a registered trade mark of British Telecommunications public limited company.

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)
0.53	1.07	7.20	48	-20 ~ +60	8 X OD

Electrical Characteristics at 20°C (part 1)

Impedance (Ω)	Max. Conductor DC Resistance (Ω/100m)	Mutual Capacitance at 1KHz (nF/100m)	NVP (%)	Min. Insulation Resistance (MΩ*km)	Max. Resistance Unbalance (%)
100 ± 15 (1MHz to 300MHz) 100 ± 22 (300MHz to 500MHz)	9.5	56	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	20.1	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