

Part No: C6TXX-E00
Description: The TruHD Cat 6 U/UTP cable has been tested and recommended by the HDBaseT Alliance making it the ideal choice for high speed data networks across a home or building.



TESTED TO
500MHz



Construction

Conductor : Bare Copper
 AWG : 23(1)
 Insulation Material : High Density Polyethylene (HDPE)
 Number of Pairs : 4
 Pair Identification : White/Blue, Blue/White; White/Orange, Orange/White
 : White/Green, Green/White; White/Brown, Brown/White
 Sheath Material : Polyvinyl Chloride (PVC)
 Sheath Colour : Replace XX on the end of the part number with the colour

| | | | | | |
|----|-------|----|--------|----|--------|
| 00 | Black | 04 | White | 08 | Orange |
| 01 | Blue | 05 | Grey | 09 | Yellow |
| 02 | Brown | 06 | Violet | 10 | Green |
| 03 | Red | 07 | Pink | | |

Electrical Characteristics

Max. Conductor Resistance @ 20°C : ≤ 9.38 Ω/100m
 Max. Resistance Unbalanced : ≤ 2.5 %
 Nominal Impedance (1-100MHz) : 100 ± 15 Ω
 Mutual Capacitance : ≤ 5.6nF/100m
 Capacitance Unbalanced to Earth : ≤ 330 pF/ 100m
 NVP : 68.5 %
 Max. Delay Skew : ≤ 45 nS/ 100m
 Voltage Rating EN 50525-1 : 450/750V*
 Test Voltage : 2.5kV (AC)
 *Suitable for installation where Band II 450/750v cables are present. Not suitable for connection to mains supply

Physical Characteristics

Overall Diameter : 6.2 ± 0.2mm
 Bend Radius : Fixed 4 x OD Flexing 8 x OD
 Temperature Rating : Fixed -20°C to 60°C Flexing -10°C to 60°C
 Weight : 46 kg/km

Transmission Performance

| Frequency | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | 200 | 250 | 300 | 400 | 500 | MHz |
|-------------|------|------|------|------|------|-------|------|------|------|------|------|------|------|-----|
| Attenuation | 1.9 | 3.5 | 5.5 | 7.0 | 7.9 | 10.0 | 14.4 | 18.6 | 27.4 | 31.1 | 34.0 | 41.1 | 47.1 | dB |
| Return Loss | 19.1 | 21.0 | 21.0 | 20.0 | 19.5 | 18.5 | 16.0 | 14.0 | 11.0 | 10.0 | 9.2 | 8.0 | 7.0 | dB |
| NEXT | 65.0 | 64.1 | 57.8 | 54.6 | 53.1 | 50.0 | 45.1 | 41.8 | 36.0 | 35.3 | 34.0 | 31.9 | 30.4 | dB |
| PS NEXT | 62.0 | 61.8 | 55.5 | 52.2 | 50.7 | 47.5 | 42.7 | 39.3 | 34.3 | 32.7 | 31.4 | 29.3 | 27.6 | dB |
| ACRF | 64.2 | 52.1 | 44.2 | 40.1 | 38.2 | 34.3 | 28.3 | 24.2 | 18.2 | 16.2 | 14.6 | 12.1 | 10.2 | dB |
| PSACRF | 61.2 | 49.1 | 41.2 | 37.1 | 35.2 | 31.3 | 25.3 | 21.2 | 15.2 | 13.2 | 11.6 | 9.1 | 7.2 | dB |

Standards

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| Flame Retardant : BS EN 60332-1-2 | Approval : HDBaseT |
| RoHS3 Compliance : Yes | Manufactured in accordance to : TIA/EIA 568-C.2, ISO/IEC 11801 |
| CE Compliant : LVD (2014/35/EU), CPR (305/2011) | CPR Classification : Eca (EN50575:2014+A1:2016) |