

Enhanced Category 5 UTP Stranded Cable

100 Ohm, 4 Pair Unshielded Twisted Pairs Data Cable (UL Verified to TIA/EIA 568B & ISO/IEC 11801)



PRODUCT CODE UTP CAT5e (Stranded)

CONSTRUCTION

Conductor 15/0.14mm Plain Copper Conductor
 Core Insulation Data Grade Polythene
 Core Identification 2 Colours are stated on a core this denotes Bi-coloured Insulation
 Twisted Construction Insulated cores twisted into pairs, 4 pairs laid-up to form a compact and circular cable
 Outer Sheath PVC

DIMENSIONS

| | Conductor | Core | Nom. O.D. |
|----------------|----------------|------|-----------|
| Diameter in mm | 0.51 (15/0.14) | 0.91 | 5.1 |

ELECTRICAL DATA

| | Impedance | Capacitance | D.C. Resistance | Capacitance Unbalance | Resistance Unbalance |
|-----------------|------------|-------------|-----------------|-----------------------|----------------------|
| Characteristics | 85-115 ohm | < 56 nF/km | < 93.8 ohm/km | < 1600 pF/km | < 2 % |

ATTENUATIONS

| | | Nominal Attenuation (max) | Worst Pair NEXT (min) | PSNEXT (min) | Worst Pair ELFEXT (min) | PSELFEXT (min) | Return Loss (min) |
|--------------|---------|---------------------------|-----------------------|--------------|-------------------------|----------------|-------------------|
| at 0.772 MHz | dB/100m | 1.8 | 67.0 | 64.0 | 66.0 | 63.0 | |
| at 1 MHz | dB/100m | 2.0 | 65.3 | 62.3 | 63.8 | 60.8 | 20.0 |
| at 4 MHz | dB/100m | 4.1 | 56.3 | 53.3 | 51.7 | 48.7 | 23.0 |
| at 8 MHz | dB/100m | 5.8 | 51.8 | 48.8 | 45.7 | 42.7 | 24.5 |
| at 10 MHz | dB/100m | 6.5 | 50.3 | 47.3 | 43.8 | 40.8 | 25.0 |
| at 16 MHz | dB/100m | 8.2 | 47.3 | 44.3 | 39.7 | 36.7 | 25.0 |
| at 20 MHz | dB/100m | 9.3 | 45.8 | 42.8 | 37.7 | 34.7 | 25.0 |
| at 25 MHz | dB/100m | 10.4 | 44.3 | 41.3 | 35.8 | 32.8 | 24.3 |
| at 31.25 MHz | dB/100m | 11.7 | 42.9 | 39.9 | 33.9 | 30.9 | 23.6 |
| at 62.50 MHz | dB/100m | 17.0 | 38.4 | 35.4 | 27.8 | 24.9 | 21.5 |
| at 100 MHz | dB/100m | 22.0 | 35.3 | 32.3 | 23.8 | 20.8 | 20.1 |
| at 155 MHz | dB/100m | 28.1 | 32.5 | 29.5 | 19.9 | 16.9 | 15.8 |
| at 200 MHz | dB/100m | 32.4 | 30.8 | 27.8 | 17.7 | 14.7 | 15.0 |