UTP CAT6 4 Pair

550MHz 4 Pair 23AWG Solid Conductor CAT6 [ISO/IEC11801, TIA/EIA568B]

Qing Cables Structured Wiring range is designed to offer higher performance than the standard Category 6 cables available today. These cables are designed for faultless signal transmission and offer headroom to support today’s bandwidth intensive applications for twisted pair cabling whether it be in data networks, control systems, CCTV over IP, home connectivity, or digital signage, and are HDBaseT™ Recommended.

These cables exceed performance standards for TIA/EIA 568-C.2 Category 6, ISO/IEC 11801 Ed2 Class E; and EN 50173-1:2011. Cables supplied in 305m reel boxes are sequentially meter marked to ensure you always know the amount of cable remaining at your disposal, sheath printing includes batch marking for full quality traceability. Our range is backed with a Lifetime Warranty.

In addition to the CAT6 UTP Cables described here, we also stock CAT5e UTP and FTP Cables, CAT6 FTP, CAT6A, CAT7, and CAT7A. Please ask about our range of Smart Home Cables including LSZH Speaker / KNX / Lutron

Physical Characteristics

Conductor: Solid Bare Copper Wire
Size: 23AWG (1/0.53 - ±0.005)
Nº of Pairs: 4 Pairs [w/ Plastic Separator]
Insulation: HDPE Ø 0.93mm (±0.03mm)
Sheath Material: LSZH
Sheath Dimensions: Ø5.80mm (±0.4mm)
Sheath Colours: Grey
Weight: 58kg/km
Operating Temperature: -40°C + 75°C
Installation Temperature: -30°C + 65°C
EN50575 CPR Class: Eca
HDBaseT™ Reference: CN-04590

Electrical Characteristics

Conductor DC Resistance: 95 (Ω/km)
Conductor Resistance Unbalance (%) Max: 5,0
Characteristic Impedance: 1.0 – 250MHz 100Ω (±15)
Delay Skew: 1.0 – 250MHz ≤45 (ns/100m)
Mutual Capacitance (1kHz) Max: 5.6nF/100m
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Frequency (MHz)

RL (dB) min. Attenuation (dB/100m) NEXT (dB) PSNEXT (dB) PSELFEXT (dB) ELFEXT (dB)
1 20.0 2.0 74.3 72.3 64.8 67.8
4 23.0 3.8 65.3 63.3 52.8 55.8
8 24.5 5.3 60.8 58.8 46.7 49.7
10 25.0 6.0 59.3 57.3 44.7 47.8
20 25.0 7.6 56.2 54.2 40.7 43.7
25 24.3 9.5 53.3 51.3 36.8 39.8
31.25 23.6 10.7 51.9 49.9 34.9 37.9
62.5 21.5 15.4 47.7 45.4 28.9 31.9
125 20.1 19.8 44.3 42.3 24.8 27.8
200 18.0 29.0 39.8 37.8 18.8 21.8
250 17.3 32.8 38.3 36.3 16.8 19.8

Colour Code

Pair 1 Blue, White/Blue
Pair 2 Orange, White/Orange
Pair 3 Green, White/Green
Pair 4 Brown, White/Brown

Our full product range includes:
- COAXIALS: RG / URM, Digital / Sat/HD [incl Sky+] [CAI Approved]
- CCTV: BF / Microwave
- DATA: Single Pair Shielded/Unshielded, Overall Shielded Core, Overall Shielded Pairs, Foil & Braid Shield, Individual Shielded Pairs [HDBaseT™ Recommended: CN-04590]
- INSTALLATION TEMPERATURE: -30°C + 65°C
- WEIGHT: 58kg/km

Every care is taken to ensure all information contained in this publication is correct. No legal responsibility can be accepted for any inaccuracy. The company reserves the right to alter or modify the information without notice. Any images are for illustration purposes only.


LSZH Sheath meets:
- IEC60332-1 [Flame Propagation]
- IEC60754 [Flameproof]
- IEC61034 [Smoke Emissions]
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- IEC61034 [Smoke Emissions]