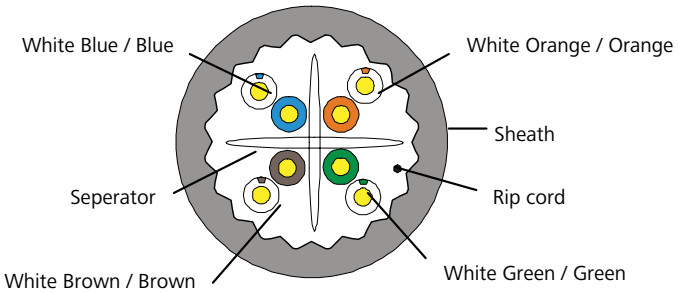
# CAT6A
# Unscreened (U/UTP) Cable LSZH CPR ECA QUCAT6AUTP




## FEATURES

- CATEGORY 6A COMPONENT COMPLIANT
- LIGHTWEIGHT, COMPACT ROUND DESIGN
- CONVENTIONAL UNSCREENED CONSTRUCTION
- SPECIFIED TO 500MHZ
- SUITABLE FOR 10 GIGABIT, ETHERNET APPLICATIONS
- LOW SMOKE ZERO HALOGEN OUTER SHEATH
- COMPACT, BUT ROBUST, DESIGN
- 25 YEAR SYSTEM WARRANTY
- CPR COMPLIANT TO ECA

## PRODUCT OVERVIEW

C-NET Category 6A cables, and associated connectors, take the performance capabilities of copper infrastructure to new levels. Designed to the current ISO EN and TIA standards for Class EA / Category 6A performance these products are intended to deliver reliable, high network performance over permanent link distances of up to 90 metres and channels up to 100m, including applications such as 10GBASE-T, 10 Gigabit Ethernet.

The term 'Alien Crosstalk' refers to the influence on the signal from a source external to the jacket sheath. i.e. it is the crosstalk from the other Category 6A cables. Our design is now round and uses a saw tooth inner shape to the sheath to increase the air gap from adjacent cables. These resulting air gaps drastically reduce the risks of Alien Crosstalk. The risks are further mitigated by following good installation practices.

C-NET Category 6A cables are jacketed in a Violet low smoke zero halogen (LSZH) compound compliant with flame retardant standards as defined in IEC 60332-1 (option for IEC 60332-3), and smoke emission standards IEC61034. Supplied in 305 metre reels in a box, each cable has a print legend identifying the specification, part code and sequential metre marking which counts down from 305 metres to 1 metre, on each Coil to reduce waste.

## CONSTRUCTION

| | |
|---|---|
| Conductor size | 23AWG |
| Conductor type | Solid bare copper |
| Conductor diameter | 0.570 ± 0.005 mm |
| Insulation type | Polyethylene |
| Insulation diameter | 1.03 ± 0.03 mm |
| Insulation minimum thickness | 0.22 mm |
| Central element | Polyethylene cross filler |
| Outer Sheath | Flame resistant, Low Smoke Zero Halogen |
| Overall Diameter | 6.9 ± -30 +50 |
| Installation & Operating Temperature Range | -10°C to +60°C |
| Minimum Bend Radius during installation | 66 mm |
| Minimum Bend Radius during operation | 33 mm |
| Smoke Emission | IEC 61034 |
| Impedance | 100 Ohms |
| Cable weight | 18kgs per 305mtr |
| NVP | 69% |
| Cable Box Dimension | 405 x 405 x 210 |

## TECHNICAL PERFORMANCE (100M)

| FREQUENCY (MHz) | RL ≥dB | ATT(20°C) ≤dB | NEXT ≥dB | PHASE DELAY ≤ns | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
|---|---|---|---|---|---|---|---|
| 1 | 20.0 | 2.1 | 74.3 | 570.0 | 72.3 | 67.8 | 64.8 |
| 4.0 | 23.0 | 3.8 | 65.3 | 552.0 | 63.3 | 55.8 | 52.8 |
| 8.0 | 24.5 | 5.3 | 60.8 | 546.7 | 48.8 | 49.7 | 46.7 |
| 10.0 | 25.0 | 5.9 | 59.3 | 545.4 | 57.3 | 47.8 | 44.8 |
| 16.0 | 25.0 | 7.5 | 56.2 | 543.0 | 54.2 | 43.7 | 40.7 |
| 20.0 | 25.0 | 8.4 | 54.8 | 542.1 | 52.8 | 41.8 | 38.8 |
| 25.0 | 24.3 | 9.4 | 53.3 | 541.2 | 41.3 | 39.8 | 36.8 |
| 31.25 | 23.6 | 10.5 | 51.9 | 540.4 | 49.9 | 37.9 | 34.9 |
| 62.5 | 21.5 | 15.0 | 47.4 | 538.6 | 45.4 | 31.9 | 28.9 |
| 100 | 20.1 | 19.1 | 44.3 | 537.6 | 42.3 | 27.8 | 24.8 |
| 200 | 18.0 | 27.6 | 39.8 | 536.5 | 37.8 | 21.8 | 18.8 |
| 250 | 17.3 | 31.1 | 38.3 | 536.3 | 36.3 | 19.8 | 16.8 |
| 300 | 16.8 | 34.3 | 37.1 | 536.1 | 35.1 | 18.3 | 15.3 |
| 500 | 15.2 | 45.3 | 33.8 | 535.6 | 31.8 | 13.8 | 10.8 |

## PART NUMBER INFORMATION

| PART NO. | DESCRIPTION |
|---|---|
| QUCAT6AUTP | Category 6a U/UTP Cable LSZH Violet 305mtr box |

## SYSTEM WARRANTY

The C-NET Cabling System Warranty provides a 25 year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed.

The warranty may be applied for by a registered approved C-NET (AI) Associated Installer who has designed, supplied and installed the relevant system.

C-NET CABLING SYSTEMS

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