

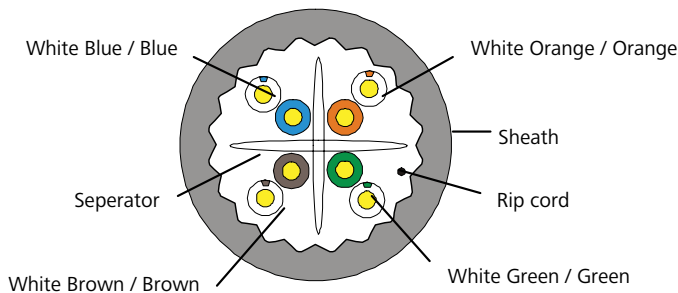
CAT6A

Unscreened (U/UTP) Cable LSZH CPR DCA 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 DCA



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 $\geq$ dB	ATT(20°C) $\leq$ dB	NEXT $\geq$ dB	PHASE DELAY $\leq$ ns	PSNEXT $\geq$ dB	ELFEXT $\geq$ dB	PSELFEXT $\geq$ 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.

