

CAT5E

Unscreened Twisted Pair (UTP) Cable PVC CPR ECA



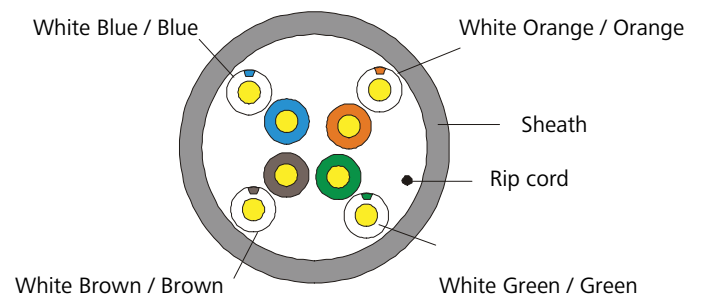
FEATURES

- 25 YEAR SYSTEM WARRANTY
- INDEPENDENT CERTIFICATION
- 305 TO 0 METRE MARKED
- SUPPORTS GIGABIT ETHERNET
- CATEGORY 5E COMPLIANT
- CPR COMPLIANT TO ECA

PRODUCT OVERVIEW

C-NET Category 5e UTP Cables are manufactured, tested and verified to the ISO/IEC 11801 2nd Edition, EN 50173:2007 and ANSI/TIA-568-C.2 standards for enhanced performance Category 5e cables.

Each cable consists of 8 colour coded polyethelene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs, together with a strong nylon rip cord are jacketed in a heat resistant PVC material. The printing detail on the sheath, includes the cables part number, specification details and a unique 305-0 metre marking within each box supplied, allowing for quick and easy measurement of cable installed and the amount remaining within the box. A choice of jacket colour enables departmental or application identification where necessary.



SPECIFICATION

PVC Outer Sheath	–
Nominal Overall Diameter	5mm
Operation Temperature Range	-10°C to +75°C
Bend Radius	4 x overall diameter installed, 8x installing
Conductor	24AWG Solid Copper
Conductor Insulation	Polyethylene
Standard of flame retardancy	IEC 60332-1-[1,2] (2004-07)
NVP	69%

PERFORMANCE OVERVIEW

C-NET Category 5e cables are manufactured and tested to the Category 5 enhanced standards as defined by the EIA/TIA and ISO standards' bodies. Swept frequency tests are applied to each critical performance characteristic, such as near end cross talk (NEXT) and far end cross talk (FEXT). Both Worst Case and Power Sum Test methods are applied. Actual performance exceeds the required standard by a considerable margin ensuring sufficient headroom for even the most demanding applications.

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	2.0	65.3	570.00	62.3	63.8	60.8
4.0	23.0	4.1	56.3	552.00	53.3	51.8	48.8
8.0	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10.0	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16.0	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20.0	25.0	9.3	45.8	542.05	42.8	37.8	34.8
25.0	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.9	24.9
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8

TYPICAL APPLICATIONS

- 10Base-T Ethernet
- 155 Mbps ATM
- 100BASETX Fast Ethernet
- 622 Mbps ATM
- 1000BASET Gigabit Ethernet
- Token Ring

PART NUMBER INFORMATION

PART NO.	DESCRIPTION
QUCAT5EPVC	Category 5e Unscreened (U/UTP) Cable, 305m 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.

