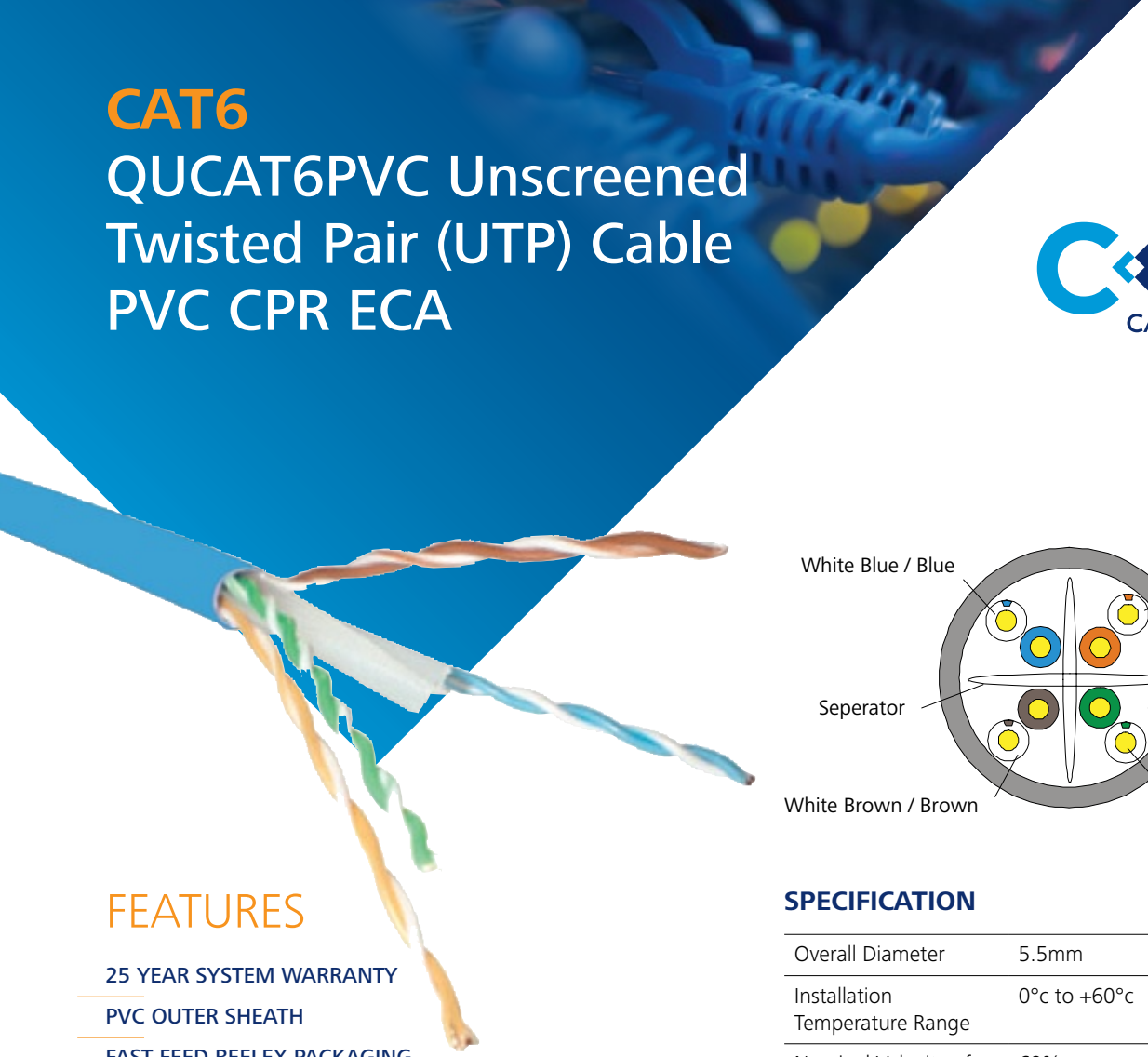
CAT6
QUCAT6PVC Unscreened Twisted Pair (UTP) Cable PVC CPR ECA



FEATURES

- 25 YEAR SYSTEM WARRANTY
- PVC OUTER SHEATH
- FAST FEED REELEX PACKAGING
- CATEGORY 6 COMPLIANT: TIA-568-C.2; EN50173-1; ISO/IEC 11801
- EC VERIFIED
- 24AWG CONDUCTOR
- '305-0' METRE MARKED
- CPR COMPLIANT TO ECA

PRODUCT OVERVIEW

CNET Category 6 UTP cables are manufactured and tested to the TIA-568-C.2, EN50173-1 and ISO/ IEC 11801 Category 6 specifications. Each cable consists of 8 colour coded 24 AWG polyethylene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs are then formed around a central 'X' shaped polyethylene filler. This filler assists in maintaining and enhancing the cables performance.

The printing detail along the outer sheath includes the cable part code, specification detail and our new 305 to 0 metre marked system. As the cable is dispensed from the box the sequential marking counts down from 305 to 0 metres, as well as reducing waste and accounting easily for cables installed, this innovative print legend finally removes the guesswork from assessing the amount of cable remaining in partly used boxes.

SPECIFICATION

Overall Diameter	5.5mm
Installation Temperature Range	0°c to +60°c
Nominal Velocity of Propagation (NVP)	69%
Operating Temperature Range	-20°c to +75°c
Bend Radius	4 x overall diameter installed, 8x during installation
Cable weight	4.10 Kg/100m
305m Reel Weight	13.2 Kg (inc. box)
Box Dimensions	210mm wide x 405mm high x 405mm deep
Standard of flame retardancy	IEC 60332-1-[1,2] (2004-07), IEC 60754-(1,2), IEC 61034-(1,2)
Cable jacket tested to	IEC 62321, US EPA 3540C, BS EN 14582
Impedance	100 ± 15 Ω

PERFORMANCE OVERVIEW

CNET Category 6 cables are manufactured and tested to the Category 6 performance standards defined by the TIA, ISO and EN standards bodies. A range of performance characteristics are tested up to 250MHz including return loss, attenuation and near and far end crosstalk (NEXT and FEXT) for which both worst case and power sum tests are completed. Actual performance far exceeds the required standard – when tested in isolation and in circuit – resulting in significant headroom for even the most demanding of applications.

As well as providing link and channel compliance with the aforementioned specification – when installed with CNET category 6 components – the cable is also backward compatible with Category 5 and 5e components.

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	2.03	74.3	570.00	72.3	67.8	64.8
4.0	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8.0	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10.0	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16.0	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20.0	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25.0	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

TYPICAL APPLICATIONS

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 622 Mbps ATM
- 155 Mbps ATM
- Composite Video

PART NUMBER INFORMATION

PART NO.	DESCRIPTION
QUCAT6PVC	Category 6 Unscreened (U/UTP) Cable PVC, Ice Blue, 305m box

SYSTEM WARRANTY

The CNET 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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