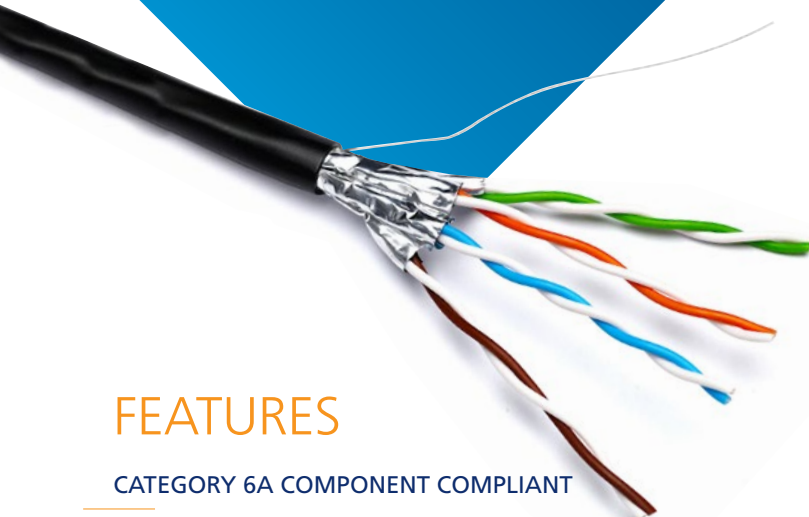


CAT6A

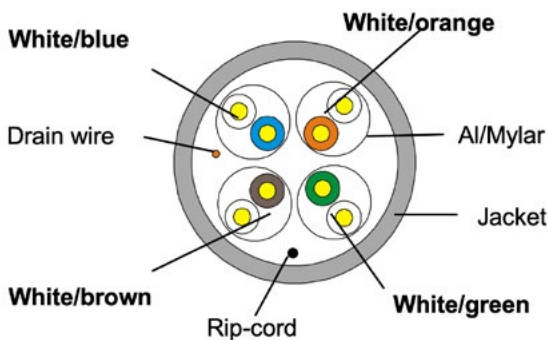
U/FTP- CAT6A-4P-PE

EXT/CAT6A/UFTP



FEATURES

- CATEGORY 6A COMPONENT COMPLIANT
- CONVENTIONAL SCREENED CONSTRUCTION
- SPECIFIED TO 23AWG 500MHZ
- SUITABLE FOR 10 GIGABIT, ETHERNET APPLICATIONS
- OUTER SHEATH BLACK
- COMPACT, BUT ROBUST, DESIGN
- 500MTR REELS
- 25 YEAR SYSTEM WARRANTY
- CPR-FCA



PRODUCT OVERVIEW

The cable is used for data transmission with characteristic impedance for 100ohm. 23AWG/1 BC conductor, Foamed PE insulation, AL/Mylar individual screen, Drain wire, PE outer jacket.

SPECIFICATION

Sheath Printing	CNET CABLING SYSTEMS		
Reference Standard	ISO/IEC 11801 TIA-568-C.2		
Conductor	Material:	SOLID-Bare Copper	
	Nom.O.D.(mm)	0.560	up +0.005 down -0.005
Insulation	Material	Skin-foam-skin PE	
	Diameter	1.330±0.05 mm	
Screening Material	Al/Mylar	Drain wire	Yes
Sheath	Thickness	0.55±0.05 mm	
	External O.D.	7.3±0.5 mm	
	Surface	Clean	
	Material	LDPE(complies RoHS) CPR FCA	
	Color	Black	
Surface Printing	Letter height	3.0±0.3mm	
	Color	White	
	Print error & Space	≤±0.5% 1m	
Core Color	1 White/Blue	2 White/Orange	
	3 White/Green	4 White/Brown	
Packing	Drum		
Packing length	500m±1.5m		
Rip-cord	Yes		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0	
	Elongation(%)	≥350	
	Aging Period(°C×hrs)	100°C×24h×10d	
	After Aging Elongation(%)	≥300	
	Cold bend(-20±2°C×4h)	8×Cable O.D., No visible cracks	
Electrical Characteristics (20°C)	Impedance(Ω)	1.0-250.0MHz	100±15
		250.0-500.0MHz	100±22
	1.0-500.0MHz	Delay Skew (ns/100m) ≤45	
	unbalanced-to-ground capacitance(pf/100m) max 330		
	DC Resistance (Ω/100m) max 9.38		
	DC Conductor Resistance Unbalance (%) max 5.0		

ELECTRICAL CHARACTERISTICS(20°C)

- Conductor DC resistance: $\leq 95 \text{ ohm/km}$
- DC Resistance Unbalance: $\leq 5\%$
- Characteristic impedance: $100 \pm 15 \text{ ohm @ } 1\text{-}500 \text{ MHz}$
- Dielectric Strength: DC 1KV for 1min(conductor to conductor,conductor to screen)
- Insulation Resistance: $\geq 5000 \text{ M}\Omega \cdot \text{km}$
- Capacitance Unbalance (pair to ground): $\leq 160 \text{ pF/100m at } 1 \text{ kHz}$
- Transmission performance: ANSI/TIA-568.2-D

FREQUENCY (MHz)	RL $\geq \text{dB}$	ATT $\leq \text{dB}$	NEXT $\geq \text{dB}$	PHASE DELAY $\leq \text{ns}$	PSNEXT $\geq \text{dB}$	ELFEXT $\geq \text{dB}$	PSELFEXT $\geq \text{dB}$
1.00	20.0	—	74.3	570	72.3	67.8	64.8
4.00	230	3.8	65.3	552	63.3	55.8	52.8
8.00	24.5	5.3	60.8	547	58.8	49.7	46.7
10.00	25.0	5.9	59.3	545	57.3	47.8	44.8
16.00	25.0	7.5	56.2	543	54.2	43.7	40.7
20.00	25.0	8.4	54.8	542	52.8	41.8	38.8
25.00	24.3	9.4	53.3	541	51.3	39.8	36.8
31.25	23.6	10.5	51.9	540	49.9	37.9	34.9
62.50	21.5	15.0	47.4	539	45.4	31.9	28.9
100.00	20.1	19.1	44.3	538	42.3	27.8	24.8
200.00	18.0	27.6	39.8	537	37.8	21.8	18.8
250.00	17.3	31.1	38.3	537	36.3	19.8	16.8
300.00	16.8	34.3	37.1	536	35.1	18.3	15.3
400.00	15.9	40.1	35.3	536	33.3	15.8	12.8
500.00	15.2	45.3	33.8	536	31.8	13.8	10.8

Note: Category 6A Permanent link test extreme length 90m.

OTHER CHARACTERISTICS

- Operating temperature Fixed: $-20 \sim +75 \text{ }^{\circ}\text{C}$
- Installation temperature $0 \sim +60 \text{ }^{\circ}\text{C}$
- Min. Bending radius Fixed: 20D (Cable diameter)
- This cable meets RoHS requirements

PART NUMBER / PACKING INFORMATION

PART NO.	DESCRIPTION
EXT/CAT6A/UFTP	500m / drum

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 CNET (AI) Associated Installer who has designed, supplied and installed the relevant system.

