CAT6A U/UTP CABLE

COPPER SYSTEMS CABLE

NETCON Category 6A U/UTP cables are specifically designed to deliver robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 meters.

Each Category 6A U/UTP exceed the minimum specified performance for Category 6A U/UTP cables and support all CLASS EA applications.



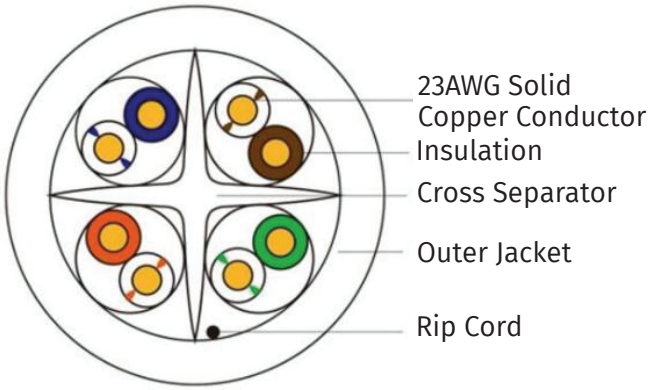
APPLICATION

- Supports category 6A (Class EA) networks running up to 500MHz applications.
- Horizontal and backbone in structured cabling installations.

FEATURES

- Conform to IEC, EIA-TIA performance requirements
- 23AWG premium grade copper conductor
- U/UTP cable structure with cross separator inside for better cable performance
- Cable jacket available in LSZH, CM, PVC
- ETL certified Channel test.

NETCON CAT.6A U/UTP CABLE



CORE IDENTIFICATION

Pair 1: Orange Grey Pair 2: Blue Green

SPECIFICATIONS

Parameters	*Value*
Electrical Performance	Certified performance in a 4-connector configuration up to 100 meters
Conductor/Insulator	23AWG Solid Copper insulated with HPDE
Operating Temperature	-20°C ~ +70°C
Compliance	ANSI/TIA-568-C.2, ISO 11801, IEC 60603-7, ETL Verified
RoHS Compliance	Compliant

Netcon Enterprise Pvt. Ltd.
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CABLE CONSTRUCTION

Parameters	Units	Value
Cable OD	mm	6.9 mm±0.2 mm
Shielding		None
Insulation		HDPE
Pair Color Codes		Pair 1: White/Blue, and Blue Pair 2: White/Orange, and Orange Pair 3: White/Green, and Green Pair 4: White/Brown, and Brown
Sheath Color		Blue (RAL 5012) Grey (RAL 7046) Black (RAL 9005)
Conductor		23AWG or 24AWG Solid Copper

MECHANICAL SPECIFICATIONS

Parameters	Value
Bulk Cable Weight	47 Kg/km
Max. Pull Tension	100N
Min. Bend Radius (installation)	8 x OD.
Min. Bend Radius (installed)	4 x OD.
Cold Bend	No crack @ -20°C x 4 hrs
Storage Temp.	-20°C ~ +70°C
Operation Temp.	-20°C ~ +60°C
Installation Temp.	0°C ~ + 50°C

ELECTRICAL SPECIFICATIONS

(Electrical Properties @20°C)

Parameters	Units	Value
Characteristic Impedance	(1-100MHz) (100-250MHz) (250-500MHz)	100 ±15Ω 100 ±18Ω 100 ±25Ω
DC Resistance	Ω/100m	≤ 9.38Ω/100m max.
Resistance Unbalance	%	≤ 2 %
Capacitance Unbalance to Earth	Pf/km	≤ 330 pF/km
Delay Skew	ns/100m	≤ 45ns/100m
Nominal Velocity of Propagation	%	68%
Propagation Delay (Nominal)	ns/100m	533ns/100m at 500MHz
Test Voltage (d.c. for 1 minute) Conductor /Conductor	VDC	1000V
Insulation Resistance (500V d.c)	MΩ	≥ 500MΩ/KM
Max. Operating Voltage	V	80V

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TRANSMISSION LINE PERFORMANCE AT 20°C

Freq. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PS NEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20	2	74.5	570	72.3	68	65
4	23	3.7	65.3	552	63.3	56	53
10	25	5.9	59.3	545	57.3	48	45
20	25	8.3	54.8	541.2	52.8	42	39
62.5	21.5	14.9	47.4	538.5	45.4	32.1	29.1
100	20	19	44.3	537.6	42.3	28	25
250	17.3	31	38.2	536.1	36.5	20	17
500	15.2	45.4	33.7	532	31.8	14	11
600*	17.3	50.1	60.7	535.5	57.7	38.4	35.4

* Performance for frequencies beyond TIA and ISO requirements are for information only.

ORDERING INFORMATION

NTC6AU23L	Netcon, Category 6A, U/UTP, 500MHz installation cable, Solid Copper, 23 AWG, 305 Metre Box, LSZH jacket, White.
NTC6AU23P	Netcon, Category 6A, U/UTP, 500MHz installation cable, Solid Copper, 23 AWG, 305 Metre Box, PVC jacket, White.

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