



## CAT 6A UTP NETWORK CABLE

*High-Performance Structured Cabling Solution*

### APPLICATION

VeiNet CAT6A UTP Cable is engineered for high-speed data transmission in mission-critical infrastructure including commercial buildings, data centers, hospitals, industrial projects, and ELV & MEP installations.

#### Supports:

- 10GBASE-T
- 500 MHz Bandwidth
- Gigabit Ethernet
- PoE++ (IEEE 802.3bt Type 4)

#### Approved:

- CE Listed | RoHS Compliant

### CONSTRUCTION

Conductor: **Solid Bare Electrolytic Grade Copper**

Insulation: **High-Density Polyolefin**

Nominal Conductor Diameter: **23 AWG**

Pairing: **Twisted into 2 core**

Pair Structure: **4 Pairs (Each pair individually twisted)**

Outer Sheath: **PVC**

Color of Sheath: **Grey**

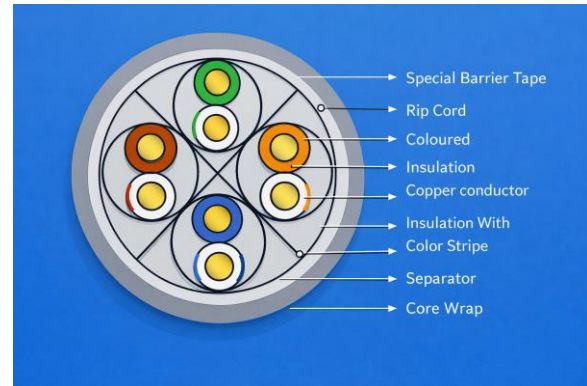
Barrier Tape: **Yes**

Approximate OD: **6.9 mm ± 0.30 mm**

Temperature Rating: **-15°C to +75°**

Printing: **Sequential Meter Length Marking**

## CAT 6A UTP CABLES



### LOW FREQUENCY ELECTRICAL PARAMETER

Conductor Resistance (DC): **9.38 Ω/1000 Mtr@20°C. Max.**

Resistance Unbalance: **5% Max**

Mutual Capacitance: **5.6 nF/100 mtrs Max.**

#### Capacitance Unbalance

Pair/Ground: **330PF/100M Max**

Normal Velocity of Propagation: **69%**

Impedance: **100 Ω ± 15%**

Worst Case cable skew: **45ns/100m**

Generally confirming to EIA/TIA 568.2-D

### COLOR CODE

- Pair#1: Blue-White with Blue
- Pair#2: Orange-White with
- Pair#3: Orange Green-White
- Pair#4: with Green Brown White with Brown

### POE

Fully complies with the recommendations set forth by IEEE 802.3bt (Type4) for the safe delivery of power over LAN cable according to TIA TSB-184-A

## HIGH FREQUENCY EPECTRICAL PARAMETERS

FREQ (MHz)	ATT (dB/100m) max.	NEXT (dB) min.	PS.NEXT (dB) min.	ACRF (dB @ 100m) min.	PS.ACRF (dB @ 100m) min.	Return Loss (dB/100m)
1	2.3	65	62	63.3	60.3	19
4	4.2	63	60.5	51.2	48.2	19
8	5.8	58.2	55.6	45.2	42.2	19
10	6.5	56.6	54	43.3	40.3	19
16	8.2	53.2	50.6	39.2	36.2	18
20	9.2	51.6	49	37.2	34.2	17.5
25	10.2	50	47.3	35.3	32.3	17
100	20.9	39.9	37.1	23.3	20.3	12
200	30.1	34.8	31.9	17.2	14.2	9
250	33.9	33.1	30.2	15.3	12.3	8
300	37.4	31.7	28.8	13.7	10.7	7.2
400	43.7	28.7	25.8	11.2	8.2	6
500	49.3	26.1	23.2	9.3	6.3	6

Cable complies to 100m Channel Link Alien cross talk as per ANSI/TIA 568.2-D Standard

## ORDERING INFORMATION

Part Code	Description
VNT-6AUGRP-305	Cat6A 23AWG UTP Cable – 305M

## PACKING

Reels of guaranteed 305m Length

## Canscorp Engineers Private Limited

Shop no. 5, Adinath Alpine Building, Plot no. 28 A, Sector-25,  
Khandeshhwar, Panvel, Navi Mumbai, Maharashtra 410209

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