



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**

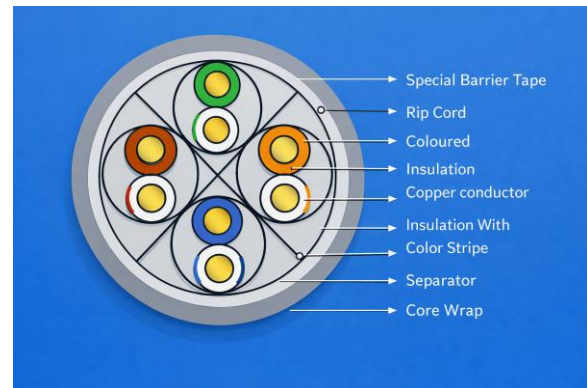
Barrier Tape: **Yes**

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): **93.8 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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