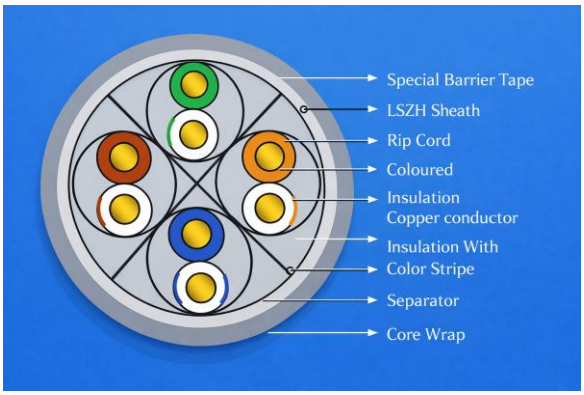
CAT 6A UTP CABLES



CAT 6A UTP NETWORK CABLE

High-Performance Structured Cabling Solution

APPLICATION

VeiNet CAT6A UTP Cable is engineered for high-speed data transmission, digital & analog voice, and video (RGB) signal distribution across structured LAN networks.

Supports:

- 10GBASE-T (IEEE 802.3an)
- Gigabit Ethernet
- Data Centers
- Commercial Buildings
- Hospitals & Industrial Infrastructure
- Smart Building Networks
- Operates at bandwidth up to 500 MHz

Approved:

- CE Listed | RoHS Compliant

CONSTRUCTION

Conductor: **23 AWG Solid Bare Copper**

Insulation: **High Density Polyolefin**

Pairing: **4 Twisted Pairs**

Separator: **Cross Filler for Pair Isolation**

Sheath: **LSZH (Low Smoke Zero Halogen)**

Overall Diameter: **7.0 ± 0.5 mm**

Rip Cord: **Included**

ELECTRICAL CHARACTERISTICS

Conductor Resistance: **≤ 9.5 Ω/100m**

Resistance Unbalance: **≤ 5%**

Mutual Capacitance: **< 5.6 nF/100m**

Capacitance Unbalance: **≤ 330 pF/100m**

Delay Skew: **< 45 ns**

Impedance: **100 ± 15 Ω**

COLOR CODE

- (1-2): White-Orange / Orange
- (3-6): White-Green / Green
- (4-5): White-Blue / Blue
- (7-8): White-Brown / Brown

MECHANICAL PROPERTIES

Pulling Force: **11.5 kg**

Operating Temperature: **-20°C to +75°C**

Storage Temperature: **-20°C to +50°C**

Minimum Bend Radius: **8 x OD**

TRANSMISSION CHARACTERISTICS PER 100M

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

ORDERING INFORMATION

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

PACKING

Available in compact design in Reels of 305M

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