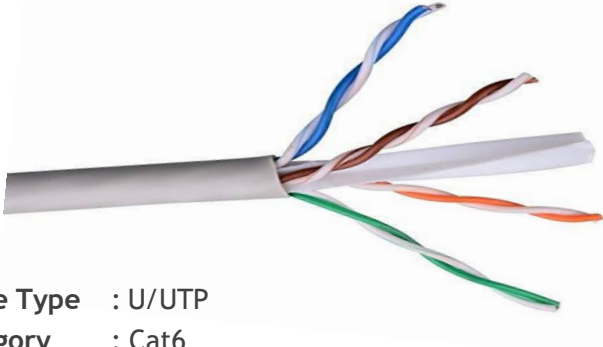
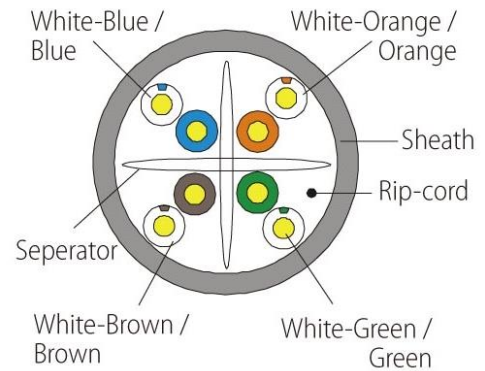


CAT 6 U/UTP CABLE

Channeltech Systems provide an array of Cat6 U/UTP Cables with different conductor sizes, tailored to meet every Ethernet requirement. Our Cat 6 Cables boast compatibility with data rates of up to 1 Gbps, making them the prime selection for LAN/WAN Solutions. Each cable comprises 8 copper conductors, with 2 conductors intricately twisted to forge a pair. The amalgamation of 4 pairs, sheathed with FR grade material, ensures unparalleled performance and durability



- Cable Type : U/UTP
- Category : Cat6
- No. of Pairs : 4



Physical Construction:

• Conductor Type	Solid Bare Electrolytic Grade Copper
• Conductor Size	23 AWG / 24 AWG
• Insulation	Polyolefin
• Insulation Diameter	0.980 mm \pm 0.20 mm
• Pairing	Twisted into two core
• Sheath (Jacket)	LSZH / PVC / PE
• Sheath Colour	As per requirement
• Cable Diameter	5.9 mm \pm 0.3 mm
• Printing	As per customer requirement

Electrical Properties:

• Conductor Resistance (Ω /km)	93.8 (Max)
• Mutual Capacitance (nF/100 M)	5.6 (Max)
• Resistance Unbalance (%)	2 (Max)
• Worst Delay Skew (ns/100 M)	\leq 45
• NVP (%)	69
• Characteristic Impedance (Ω)	100 \pm 15

Mechanical Properties:

• Bending Radius	≤ 4 x Cable Diameter
• Installation Temperature	0 to +50 °C
• Operating Temperature	-20 to +75 °C
• Pulling Force	100 N

Pair Identification Colour Code:

Pair#1-2	White	Orange	Orange
Pair#3-6	White	Green	Green
Pair#4-5	White	Blue	Blue
Pair#7-8	White	Brown	Brown

High Frequency Electrical Properties:

Frequency	IL	NEXT	PSNEXT	ACRF	PSACRF	RL
(MHZ)	dB	dB	dB	dB	dB	dB
	Max	Min.	Min.	Min.	Min.	Min
1	2.1	65.0	62.0	63.3	60.3	19.0
4	4.0	63.0	60.5	51.2	48.2	19.0
8	5.7	58.2	55.6	45.2	42.2	19.0
10	6.3	56.6	54.0	43.3	40.3	19.0
16	8.0	53.2	50.6	39.2	36.2	18.0
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.9	33.1	30.2	15.3	12.3	8.0

Ref Standard:

- ANSI/TIA-568.2-D
- ISO/IEC 11801 2ND Edition

Packing Standard:

- Packing Style : Reel In Box
- Packing Length : 305 meter

Approved by -
Technical Head