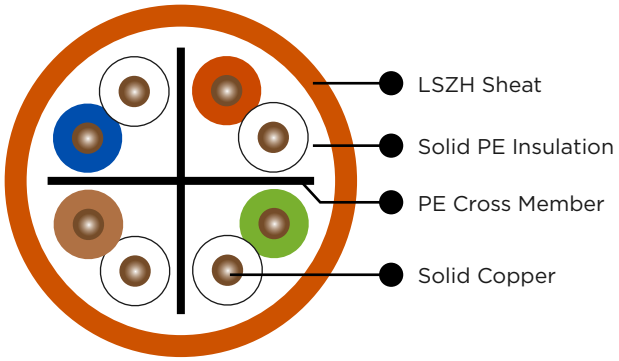
INDOOR TYPE CAT-6
U/UTP 250 MHz LSZH SHEATH

TURKUAZ KABLO

1. CABLE CONSTRUCTION



Conductor	Separator	Outer Sheath
Annealed Copper Conductor	The pairs are twisted together with a star separator.	HFFR/LSZH (IEC 60332-1-2-3) with Orange.

Insulation	Color Code of Conductors
Solid PE Insulation.	Blue/White-Blue; Orange/White-Orange; Green/White-Green; Brown/White-Brown.

Stranding	Note:
Insulated wires are twisted in pairs.	Also, can be produced different colors upon on customer demand.

The Length Marking on Cable as Below:

The following designations shall be applied in a continuous row to the outer sheath so that they are clearly legible over the entire length of the cable.

TURKUAZ CABLE 2021 CAT6 U/UTP 250 MHz LSZH ANSI/TIA 568-C.2&ISO/IEC 11801 & IEC 61156-5 XXXX MT

The Packing and Marking as Like Below:

Shipment will be done with 500 -1000 meters non-returnable non-fumigated wooden drums or 305 meters packages with protection.

The cable drums are labeled as:
-Manufacturer Name and year of Manufacturing (TURKUAZ CABLE 2021)
-Name of Customer
-CAT-6 U/UTP LSZH Sheath
-Gross Weight .....kg
-Net Weight.....kg
-Length.....meter
-Drum Numbers for each drums or package numbers for each packages.

INDOOR TYPE CAT-6
U/UTP 250 MHz LSZH SHEATH

TURKUAZ KABLO

2. APPLICATION

U/UTP Cable (Unshielded Twisted Pair Cable), which is used in a horizontal or vertical configuration, it constitutes the base of a voice, data, imagine network to very high rate.

Performances of this cable exceed the current standards, its use with connectors ensure conformity with Class E channel.

So this cable is used for transmission of digital and analogue voice, data and signals. It can transmit:
10 BASE-T (IEEE 802.3) Ethernet
100 BASE-T (IEEE 802.3 U) Fast Ethernet
1000 BASE-T (IEEE 802.3 AB) Gigabit Ethernet
100 VG-AnyLAN (IEEE 802.12)
4/16 Mbps Token Ring (IEEE 802.5)
100 Mbps CDDI
250 Mbps ATM

3. ELECTRICAL CHARACTERISTICS

Conductor Resistance Max (Ω/Km)	Insolation Resistance 500V DC (MΩ)	Mutual Capacity Max (nF/Km)	Velocity of Propagation	Dielectric Strength (V)	Impedance (Ω)
72	5000	56	%67-69	1200	100±15 1-250 MHz

4. MECHANICAL CHARACTERISTICS

Bending Radius (mm)	Max. Tensile Strength (N/mm)	Operating Temperature (°C)
8xD	50	-20°C ~ +60°C

5. STANDARDS OF CABLE

International Standards
ANSI/TIA-568-C.2 IEC-61156-5 IEC-11801

INDOOR TYPE CAT-6 U/UTP 250 MHz LSZH SHEATH

TURKUAZ KABLO

6. TRANSMISSION CHARACTERISTICS

Frequency (MHz)	Insertion Loss dB/100m (MAx)	Return Loss (RL) dB (min)	NEXT dB (Min)	PS NEXT dB (Min)	ELFEXT (ACRF) dB/100m (Min)	PS ELFEXT (PS ACRF) dB/100m (Min)	Propagation Delay ns//100m (Max)
1	2.0	20.0	47.3	72.3	67.8	64.8	570
4	3.8	23.0	65.3	63.3	55.8	52.8	552
8	5.3	24.5	60.8	58.8	49.7	46.7	547
10	6.0	25.0	59.3	57.3	47.8	44.8	545
16	7.6	25.0	56.2	54.2	43.7	40.7	543
20	8.5	24.3	54.8	52.8	41.8	38.8	542
25	9.5	23.6	53.3	51.3	39.8	36.8	541
31.25	10.7	21.5	51.9	49.9	37.9	34.9	540
62.5	15.4	20.1	47.4	45.4	31.9	28.9	539
100	19.8	18.0	44.3	42.3	27.8	24.8	538
200	29.0	17.3	39.8	37.8	21.8	18.8	537
250	32.8	16.8	38.3	36.3	19.8	16.8	536

Delay skew ≤ 45ns/100m (1-250MHz.)

7. CORE IDENTIFICATION

Per Number	Conductor Diameter (mm)	Outer Diameter (mm)	Copper Weight (kg/km)	Average Weight (kg/km)	Packing/Drum Size (m)
4 Pair	0.530±0,01	5.8±0,3	15.8±0,4	37 ± 2	305/500/1000