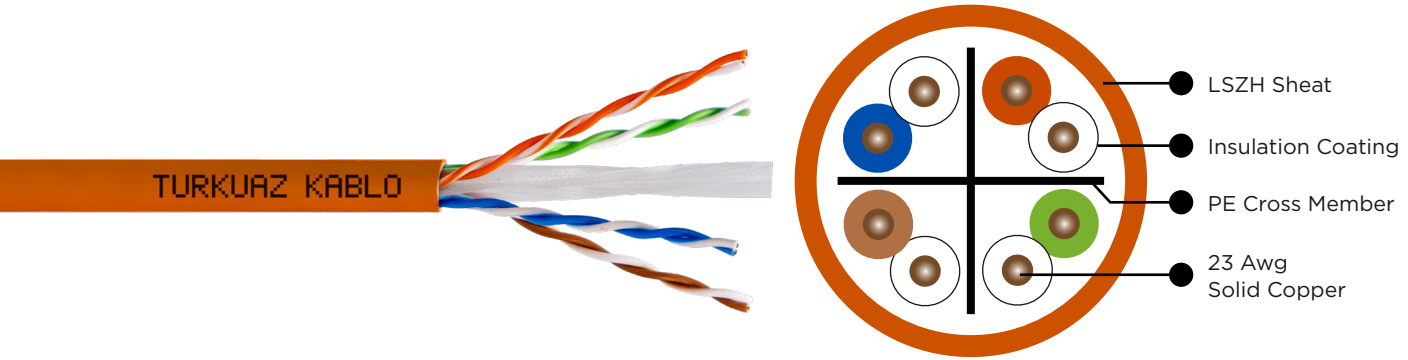


INDOOR TYPE CAT-6A U/UTP 23 AWG LSZH SHEATH



1. CABLE CONSTRUCTION



Conductor

Annealed Copper Conductor 23 AWG.

Separator

The pairs are twisted together with a star separator.

Outer Sheath

HFFR/LSZH (IEC 60332-1-2) with Orange.

Insulation

Solid PE Insulation.

Color Code of Conductors

Blue/White-Blue; Orange/White-Orange; Green/White-Green; Brown/White-Brown.

Stranding

Insulated wires are twisted in pairs.

Note:

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 2019 <CUSTOMER NAME> INDOOR CAT-6A U/UTP 23 AWG LSZH SHEATH XXXX MT

The Packing and Marking as 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 2019)
- Name of Customer
- CAT-6A U/UTP 23 AWG LSZH Sheath
- Gross Weightkg
- Net Weight.....kg
- Length.....meter
- Drum Numbers for each drums or package numbers for each packages.

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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
- 100 BASE-TX (IEEE 802.3 U) Fast Ethernet
- 1000 BASE-T (IEEE 802.3 AB) Gigabit Ethernet
- 1000 BASE-TX (IEEE 802.3 AB) Gigabit Ethernet
- 100 VG-AnyLAN (IEEE 802.12)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 155 Mbps ATM
- 500 Mbps ATM
- 10Gbit Ethernet

3. ELECTRICAL CHARACTERISTICS

Conductor Resistance Nom (Ω /Km)	Insulation Resistance 500V DC (M Ω)	Mutual Capacity Max (nF/Km)	Velocity of Propagation	Dielectric Strength (V)	Impedance (Ω)
< 95	5.000	56	> %65	1000	100 \pm 15 1-500 MHz

4. MECHANICAL CHARACTERISTICS

Bending Radius (mm)	Max. Tensile Strength (N/mm)	Operating Temperature ($^{\circ}$ C)
8xD	150 N. Max.	-20 $^{\circ}$ C ~ +60 $^{\circ}$ C

5. STANDARDS OF CABLE

International Standards

ANSI/TIA-568-C.2
IEC-61156-5
IEC-11801
EN-50173-1
EN-50288-10-1

INDOOR TYPE CAT-6A

U/UTP 23 AWG LSZH SHEATH

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	2.1	20.0	74.3	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	5.9	25.0	59.3	57.3	47.8	44.8	545
16	7.5	25.0	56.2	54.2	43.7	40.7	543
20	8.4	25.0	54.8	52.8	41.8	38.8	542
25	9.4	24.3	53.3	51.3	39.8	36.8	541
31.25	10.5	23.6	51.9	49.9	37.9	34.9	540
62.5	15.0	21.5	47.4	45.4	31.9	28.9	539
100	19.1	20.1	44.3	42.3	27.8	24.8	538
200	27.6	18.0	39.8	37.8	21.8	18.8	537
250	31.1	17.3	38.3	36.3	19.8	16.8	536
300	34.5	16.8	37.1	35.1	18.3	15.3	536
400	40.1	15.9	35.3	33.3	15.8	12.8	536
500	45.3	15.2	33.8	31.8	13.8	10.8	536

Delay skew \leq 45ns/100m (1-500MHz.)

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	0.56 \pm 0,01	6.5 \pm 0,3	17,5 \pm 0,4	42 \pm 2	305/500/1000