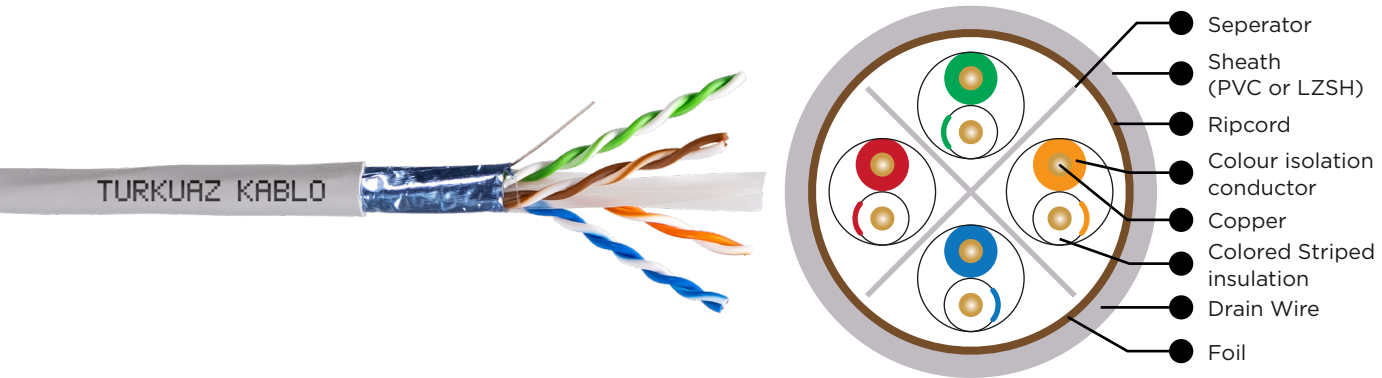


INDOOR TYPE CAT-6A F/UTP 500 MHZ LSZH CABLE

1. CABLE CONSTRUCTION



Conductor

Annealed Copper
Conductor

Insulation

Solid PE Insulation.

Stranding

Insulated wires are twisted in pairs,
Polyester, & Tinned Copper Ground Wire

Screen

Al-Pet Foiled

Separator

The pairs are twisted together with a
star separator.

Color Code of Conductors

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

Outer Sheath

HFFR/LSZH

Note:

It 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 CAT 6A F/UTP 500 MHz LSZH ANSI/TIA 568-C.2 ISO/IEC 11801 IEC 61156-5 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 2021)
- Name of Customer
- CAT 6A F/UTP LSZH
- Gross Weightkg
- Net Weight.....kg
- Length.....meter
- Drum Numbers for each drums or package numbers for each packages.

INDOOR TYPE CAT-6A F/UTP 500 MHZ LSZH CABLE

2. APPLICATION

F/UTP Cable (Foiled Unshielded Twisted Pair Cable), which is used in a horizontal or vertical configuration, it constitutes the base of a voice, data, 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) 1Gigabit Ethernet
 1000 BASE-TX (IEEE 802.3 AB) 10Gigabit 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)	Resistance Unbalance Max (%)	Capacitance unbalance: pair-to-ground Max. (pF/100m)	Insulation Resistance 500V DC (M Ω)	Mutual Capacity Max (nF/Km)	Velocity of Propagation	Dielectric Strength (V)	Impedance (Ω)
Max. 93.8	2.0	330	5000	56	%65-67	1200	100 \pm 15 1-500 Mhz

4. MECHANICAL CHARACTERISTICS

Bending Radius (mm)	Operating Temperature ($^{\circ}$ C)
8xD	-20 $^{\circ}$ C ~ +60 $^{\circ}$ C

5. STANDARDS OF CABLE

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

INDOOR TYPE CAT-6A F/UTP 500 MHZ LSZH CABLE

6. TRANSMISSION CHARACTERISTICS

Frequency (MHz)	Insertion Loss dB/100m (MAX)	Return Loss (RL) dB (min)	NEXT dB (Min)	PS NEXT dB (Min)	ACRF dB/100m (Min)	PSACRF dB/100m (Min)	Propagation Delay ns/100m (Max)	TCL dB (Min.)
1	2.3	19.0	65.0	62.0	63.3	60.3	580	40.0
4	4.2	19.0	63.0	60.5	51.2	48.2	562	40.0
8	5.8	19.0	58.2	55.6	45.2	42.2	557	36.5
10	6.5	19.0	56.6	54.0	43.3	40.3	555	35.0
16	8.2	18.0	53.2	50.6	39.2	36.2	553	31.9
20	9.2	17.5	51.6	49.0	37.2	34.2	552	30.5
25	10.2	17.0	50.0	47.3	35.3	32.3	551	29.0
31.25	11.5	16.5	48.4	45.7	33.4	30.4	550	27.6
62.5	16.4	14.0	43.4	40.6	27.3	24.3	549	23.1
100	20.9	12.0	39.9	37.1	23.3	20.3	548	20.0
200	30.1	9.0	34.8	31.9	17.2	14.2	547	15.5
250	33.9	8.0	33.1	30.2	15.3	12.3	546	14.0
300	37.4	7.2	31.7	28.8	13.7	10.7	546	12.8
400	43.7	6.0	28.7	25.8	11.2	8.2	546	11.0
500	49.3	6.0	26.1	23.2	9.3	6.3	546	9.5

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

7. CORE IDENTIFICATION

Per Number	Conductor Diameter (mm)	Outer Diameter (mm)	Average Weight (kg/km)	Packing/Drum Size (m)
4 Pair	0.550 \pm 0,01	7.5 \pm 0,3	55 \pm 2	305/500/1000