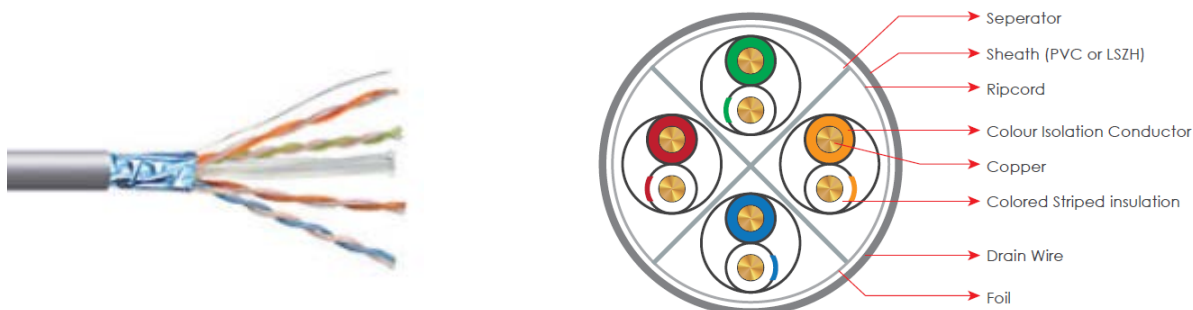


INDOOR TYPE CAT-6 F/UTP 250 MHz LSZH CABLE

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 Like 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.

TURKU AZ CABLE 2021 CAT 6 F/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 (TURKU AZ CABLE 2021)
- Name of Customer
- CAT 6 F/UTP LSZH
- Gross Weightkg
- Net Weight.....kg
- Length.....meter
- Drum Numbers for each drums or package numbers for each packages.

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, 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) 1Gigabit 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 Nom (Ω /Km)	Resistance Unbalance Max (%)	Capacitance unbalance: pair-to-ground Max. (pF/100m)	Insolation Resistance 500V DC (M Ω)	Mutual Capacity Max (nF/Km)	Velocity of Propagation	Dielectric Strength (V)	Impedance (Ω)
Max. 93.8	2.5	330	5000	56	%67-69	1200	100 \pm 15 1-250 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

6. TRANSMISSION CHARACTERISTICS:

Frequency (MHz)	Insertion Loss (Attenuation) 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	2.1	19.0	65.0	62.0	63.3	60.3	580	40.0
4	4.0	19.0	63.0	60.5	51.2	48.2	562	40.0
8	5.7	19.0	58.2	55.6	45.2	42.2	557	36.5
10	6.3	19.0	56.6	54.0	43.3	40.3	555	35.0
16	8.0	18.0	53.2	50.6	39.2	36.2	553	31.9
20	9.0	17.5	51.6	49.0	37.2	34.2	552	30.5
25	10.1	17.0	50.0	47.3	35.3	32.3	551	29.0
31.25	11.4	16.5	48.4	45.7	33.4	30.4	550	27.6
62.5	16.5	14.0	43.4	40.6	27.3	24.3	549	23.1
100	21.3	12.0	39.9	37.1	23.3	20.3	548	20.0
200	31.5	9.0	34.8	31.9	17.2	14.2	547	15.5
250	35.9	8.0	33.1	30.2	15.3	12.3	546	14.0

Delay skew $\leq 45\text{ns}/100\text{m}$ (1-250MHz.)

7. CORE IDENTIFICATION:

Per Number	Conductor Diameter (mm)	Outer Diameter (mm)	Average Weight (kg/km)	Packing/Drum Size (m)
4 Pair	0.546 \pm 0,01	6.5 \pm 0,5	50 \pm 2	305/500/1000

NOTES: It is suitable for analog and digital signal transmission up to 250 Mbit/sec.