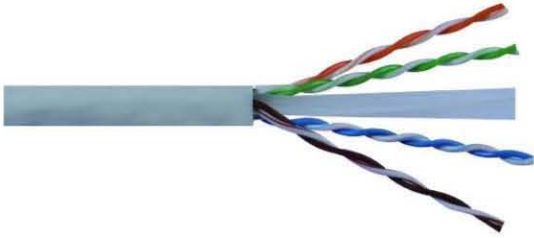


# CATEGORY 6 LSOH U/UTP PATCH CABLE 4 PAIR

Lanet



Lanet Category 6 U/UTP cables are designed to meet the most advanced U/UTP cable applications. Tested to 250 MHz, the guaranteed performance of this cable meets the ANSI/TIA 568C.2 and ISO/IEC 11801 requirements for PS-NEXT, attenuation, return loss, attenuation-to-crosstalk ratio (ACR) and impedance, making it ideal for high-end transmission links supporting today's networking protocols.

## CONSTRUCTION

24AWG bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit jacketed with LSOH material.

## STANDARDS

North American    ANSI/TIA 568C.2

International     ISO/IEC 11801

## APPLICATIONS

Category 6 U/UTP cable is intended for high speed data applications

including:

IEEE 802.3 1000BASE-T, 10BASE-T, 155 Mb/s ATM, 4/16 Mb/s Token Ring

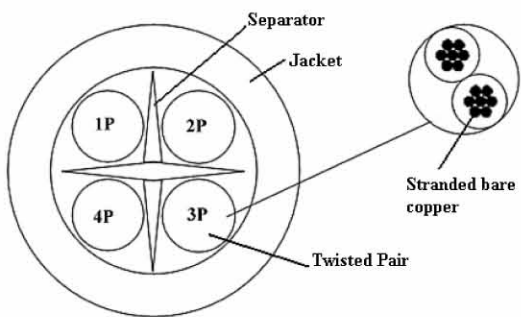
## FEATURES

- Specified and tested to 250 MHz
- Small, round design pairs
- ETL verified to ANSI/TIA 568C.2 and ISO/IEC 11801

## BENEFITS

- Reliably supports today's network protocols
- Reduced installation costs and maintenance
- Lower Bit Error Rates, increases network efficiency and uptime

# CATEGORY 6 LSOH U/UTP PATCH CABLE 4 PAIR



## Construction

Twisted Pairs Color Code:

1. PAIR 1: Blue, White/Blue
2. PAIR 2: Orange, White/Orange
3. PAIR 3: Green; White/Green
4. PAIR 4: Brown; White/Brown

## Component

1. Conductor: AWG 24
2. Insulators: HDPE (Min. Thickness 0.153, Min. Avg. thickness 0.178)
3. Insulators Diameter: 0.93 ~0.98mm
4. Jacket: LSOH (Min. Thickness 0.58, Min. Avg. thickness 0.46)
5. Jacket Diameter: 6.0 ± 0.2mm

## Marking

U/UTP PATCH CABLE 24AWG 4PR ANSI/TIA 568C.2 CAT.6 ETL

Verified LSOH XXXXXXX-X

or customization

## Physical Characters

Un-aged:

1. Tensile strength: Polyolefin 2400PSI, Jacket (LSOH) 2000PSI
2. Elongation: Polyolefin 300% min. Jacket (LSOH) 100% min

After Aging:

1. Tensile strength: Polyolefin 75%min. Jacket (LSOH) 85% min
2. Elongation: Polyolefin 75%min. Jacket (LSOH) 50% min

## Electric Characters

1. Voltage rating: 300V
2. Temperature rating: 75°C
3. Dielectric strength: DC 2.5 KV / 2sec. or AC1.75 KV / 2sec.
4. Mutual Capacitance: 5.6 nF/100m nom.
5. Pair to ground : 330pF/100m max
6. Conductor DC resistance: 87.6 Ohms/km max. at 20°C.
7. DC Resistance Unbalance: 5% max.
8. Characteristic Impedance: 100±15 Ohms 1~250MHz
9. Propagation Delay skew: 45ns/100m max. 1~250MHz
10. Velocity of Propagation: 70%

FREQ MHz	Attenuation (max. dB/100m)	NEXT (min. dB)	RL (min. dB at 20°C)	PSNEXT (min. dB)	ELFEXT (min. dB)	PSELFEXT (min. dB)	DELAY (max. ns at 20°C)
1	2.4	74.3	20.0	72.3	67.8	64.8	570.0
4	4.5	65.3	23.0	63.3	55.8	52.8	552.0
8	6.4	60.8	24.5	58.8	49.7	46.7	546.7
10	7.1	59.3	25.0	57.3	47.8	44.8	545.0
16	9.1	46.2	25.0	54.2	43.7	40.7	543.0
20	10.2	54.8	25.0	52.8	41.8	38.8	542.0
25	11.4	53.3	24.2	51.3	39.8	36.8	541.2
31.25	12.8	51.9	23.3	49.9	37.9	34.9	540.4
62.50	18.5	47.4	20.7	45.4	31.9	28.9	538.6
100	23.8	44.3	19.0	42.3	27.8	24.8	538.0
200	34.8	39.8	16.4	37.8	21.8	18.8	536.5
250	39.4	38.3	15.6	36.3	19.8	16.8	536.0