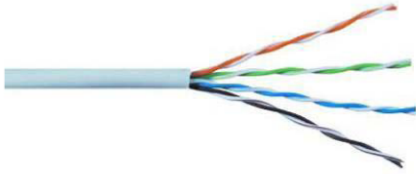


# 08UTP05HF CAT 5E LSOH U/UTP INSTALL CABLE 4 PAIR

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Category 5E U/UTP cables are designed to meet the most advanced U/UTP cable applications. Tested to 100 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 5E 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

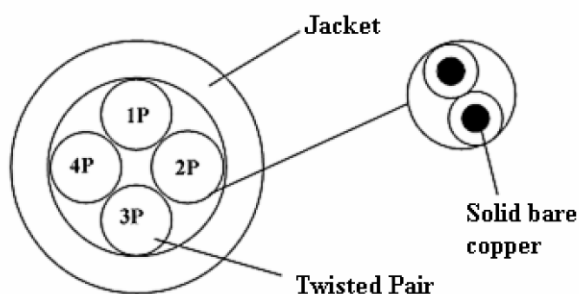
## FEATURES

- Specified and tested to 100 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

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## 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:  $0.84 \pm 0.01\text{mm}$
4. Jacket: LSOH (Min. Thickness 0.58, Min. Avg. thickness 0.46)
5. Jacket Diameter:  $5.0 \pm 0.2\text{mm}$

## Marking

U/UTP INSTALL CABLE 24AWG 4PR ANSI/TIA 568C.2 CAT.5E ETL  
 Verified LSOH XXXXXXXX-X XXXXM  
 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: 93.8 Ohms/km max. at 20°C.
7. DC Resistance Unbalance: 5% max.
8. Characteristic Impedance:  $100 \pm 15$  Ohms 1~100MHz
9. Propagation Delay skew: 45ns/100m max. 1~100MHz
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	2.0	65.3	20.0	62.3	63.8	60.8	570.0
4	4.1	56.3	23.0	53.3	51.8	48.8	552.0
8	5.8	51.8	24.5	48.8	45.7	42.7	546.7
10	6.5	50.3	25.0	47.3	43.8	40.8	545.0
16	8.2	47.2	25.0	44.2	39.7	36.7	543.0
20	9.3	45.8	25.0	42.8	37.8	34.8	542.0
25	10.4	44.3	24.2	41.3	35.8	32.8	541.2
31.25	11.7	42.9	23.3	39.9	33.9	30.9	540.4
62.50	17.0	38.4	20.7	35.4	27.9	24.9	538.6
100	22.0	35.3	19.0	32.3	23.8	20.8	538.0
200	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-