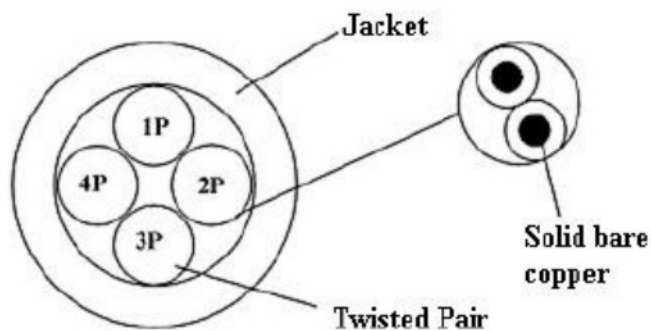


# CATEGORY 5E UTP INSTALL CABLE 4 PAIR



## Construction

### Twisted Pairs Color Code :

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

## Component

1. Conductor: AWG 24
2. Insulators: HDPE (Min. Thickness 0.153; Min. Avg. thickness 0.178)
3. Insulators Diameter:  $0.90 \pm 0.01$
4. Jacket: 75°C PVC (Min. Thickness 0.58; Min. Avg. thickness 0.46)
5. Jacket Diameter:  $5.3 \pm 0.15$

## Marking

Jyh Eng UTP INSTALL CABLE 24AWG 4PR 75°C (UL) E178558 CM rated  
 EIA/TIA-568B.2 CAT.5E ETL Verified xxxxxxx-x xxxxM  
 or customization

## Physical Characters

### Unaged:

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

### After Aging:

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

## Electric Characters

1. Voltage rating: 30V
2. Temperature rating: 75 Degree Celsius
3. Spark test: DC 2.5 KV / 0.15 sec. or AC 1.75KV / 0.15 sec.
4. Dielectric strength: DC 2.5 KV / 0.15 sec. or AC1.75 KV / 0.15 sec.
5. Insulating resistance: 89.2 Ohms/km max.
6. Mutual Capacitance: 5.6 nF/100M max.
7. D-C Resistance Unbalance: 5% max.
8. Characteristic Impedance :  $100 \pm 15$  Ohms

FREQ MHz	Attenuation (dB/100m)	NEXT (dB)	VOP %	PS-NEXT (dB)	ELFEXT (dB)	PSELFEXT (dB/100m)	RL (dB)	DELAY (ns/100m)
1	2.0	65.3	63.0	62.3	63.0	60.8	20.0	570.0
4	4.1	56.3	51.0	53.3	51.7	48.7	23.0	552.0
8	5.8	51.8	45.0	48.8	45.7	42.7	24.5	546.7
10	6.5	50.3	43.0	47.3	43.8	40.8	25.0	545.4
16	8.2	47.3	38.0	44.4	39.7	36.7	25.0	543.0
20	9.3	45.8	35.0	42.8	37.7	34.7	25.0	542.0
25	10.4	44.3	32.0	41.3	35.8	32.8	24.2	541.2
31.25	11.7	42.9	29.0	39.9	33.9	30.9	23.3	540.4
62.50	17.0	38.4	18.0	35.4	27.8	24.8	20.7	538.6
100	22.0	35.3	9.0	32.3	23.8	20.8	19.0	538.0

