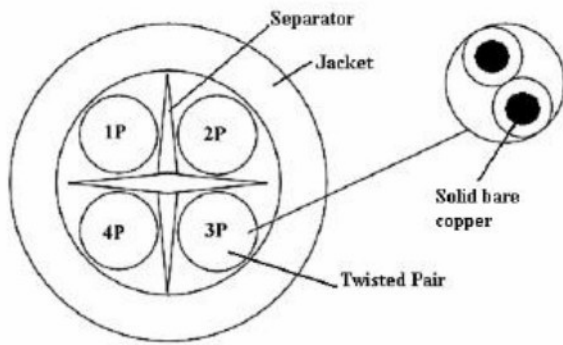


# CATEGORY 6 UTP INSTALL CABLE 4 PAIR



## 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 23
2. Insulators: HDPE (Min. Thickness 0.153; Min. Avg. thickness 0.178)
3. Insulators Diameter:  $1.0 \pm 0.01$
4. Jacket: 75°C PVC (Min. Thickness 0.58; Min. Avg. thickness 0.46)
5. Jacket Diameter:  $6.2 \pm 0.15$

## Marking

Jyh Eng UTP INSTALL CABLE 23AWG 4PR 75°C (UL) E178558 CM rated  
 EIA/TIA-568B.2-1 CAT.6 ETL Verified xxxxxx-x xxxM  
 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 AC 1.75 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	1.8	74.3	58.5	72.3	67.8	64.8	20.0	570.0
4	2.0	65.3	60.4	63.3	55.8	52.8	23.0	552.0
8	3.8	60.8	61.0	58.8	49.7	46.7	24.5	546.7
10	5.3	59.3	61.1	57.3	47.8	44.8	25.0	545.0
16	6.0	46.2	61.4	54.2	43.7	40.7	25.0	543.0
20	7.6	54.8	61.5	52.8	41.8	38.8	25.0	542.0
25	8.5	53.3	61.6	51.3	39.8	36.8	24.2	541.2
31.25	9.5	51.9	61.7	49.9	37.9	34.9	23.3	540.4
62.50	10.7	47.4	61.9	45.4	31.9	28.9	20.7	538.6
100	15.4	44.3	62.0	42.3	27.8	24.8	19.0	538.0
200	19.8	39.8	62.1	37.8	21.8	18.8	16.4	536.5
250	29.0	38.3	62.1	36.3	19.8	16.8	15.6	536.0

2007/6/29

