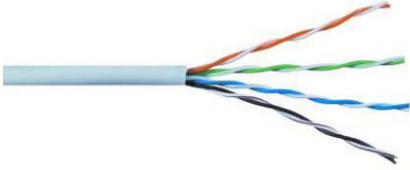


# CATEGORY 5E U/UTP PATCH CABLE 4 PAIR (AWG 26)



**maxxim**  
Selected for Quality  
[www.maxxim.co.za](http://www.maxxim.co.za)

Maxxim Category 5E U/UTP cables are designed to meet the most advanced U/UTP cable applications. Tested to 100 MHz, the performance of this cable meets the 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

26AWG 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 flame-retardant PVC.

## 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

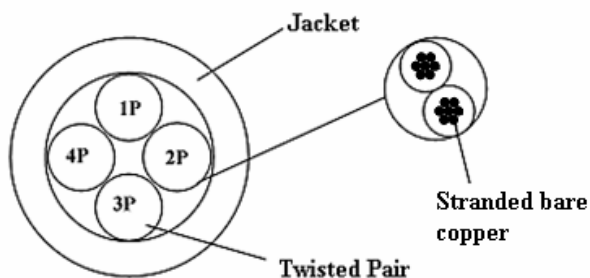
## FEATURES

- Specified and tested to 100 MHz
- Small, round design pairs

## BENEFITS

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

# CATEGORY 5E U/UTP PATCH CABLE 4 PAIR (AWG 26)



## 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 26
2. Insulators: HDPE (Min. Thickness 0.153, Min. Avg. thickness 0.178)
3. Insulators Diameter:  $0.72 \pm 0.01\text{mm}$
4. Jacket: 75°C PVC (Min. Thickness 0.58, Min. Avg. thickness 0.46)
5. Jacket Diameter:  $4.5 \pm 0.2\text{mm}$

## Marking

Maxxim U/UTP PATCH CABLE 26AWG 4PR CAT.5E XXXXXXXX-X  
or customization

## Physical Characters

Un-aged:

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: 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: 89 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.
10. Velocity of Propagation: 70%

FREQ MHz	NEXT (min. dB)	RL (min. dB at 20°C)	PSNEXT (min. dB)	DELAY (max. ns at 20°C)
1	65.3	20.0	62.3	570.2
4	56.3	23.0	53.3	552.0
8	51.8	24.5	48.8	546.7
10	50.3	25.0	47.3	545.0
16	47.2	25.0	44.4	543.0
20	45.8	25.0	42.8	542.0
25	44.3	24.2	41.3	541.2
31.25	42.9	23.3	39.9	540.4
62.50	36.4	20.7	35.4	538.6
100	35.3	19.0	32.3	538.0
200	-	-	-	-
250	-	-	-	-