



MD Location: 11399 Frederick Avenue, Beltsville, MD 20705  
 CA Location: 114600 Innovation Dr. Riverside, CA 92508  
 KS Location: 1310 Adams St Kansas City Kansas 66103-1359

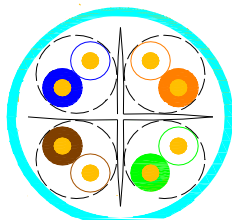
**CAT6 UTP CMP** (Made in USA)

**Tel:** (301) 825-9890

**Mail:** sales@tscables.com

**URL:** www.tscables.com

### Cross Section



23 AWG Bare  
Copper Pairs

Insulation  
FEP Spline

Conductor

Jacket

### Standard Compliances

- UL Certified
- ANSI/TIA-568-C.2 CAT6
- ISO/IEC 2nd Edition 11801 Class E
- CENELEC EN 50173-1
- Retardancy verified according to NFPA-262
- RoHS compliance for EU Directive 2002/95/EC

### Electrical Characteristics

### Cable Description

#### 1) Conductor:

Pairs 4  
 Total Conductor 8  
 AWG 23  
 Material Bare Copper Bare Copper

#### 2) Insulation:

Material FEP  
 Nom. Thickness 0.22mm  
 AWG 23  
 Dia.  $\Phi$  1.018 $\pm$ 0.05mm

Color Cord White/Blue & Blue  
 White/Orange & Orange  
 White/Green & Green  
 White/Brown & Brown

Unaged Elongation Min. 200%  
 Unaged Tensile Strength Min. 1754Kgf/mm<sup>2</sup>

#### 3) Outer Jacket: Fire Retardant PVC CMP

Thickness (Nominal) 0.5 mm  
 Diameter (Nominal) 6.3 mm

Unaged Elongation Min. 100%  
 Unaged Tensile Strength Min. 1754Kgf/mm<sup>2</sup> Aging  
 at 100°C for 168 Hrs:  
 Min. Elongation retention: 50%  
 Min. tensile strength retention: 75%

#### 4) Foot Marking:

CAT6 550MHz CMP PLENUM UTP 4-PAIR  
 23AWG EIA/TIA-568-C.2-1 0002FT-1000FT

- |                              |                       |                        |
|------------------------------|-----------------------|------------------------|
| 1. Characteristic Impedance: | 772kHz 102            | 102 $\Omega$ $\pm$ 20% |
|                              | 1~550MHz              | 100 $\Omega$ $\pm$ 15% |
| 2. Capacitance Unbalance:    | Max. 160              | pF/100m                |
| 3. Mutual Capacitance:       | Max. 5600             | pF/100m                |
| 4. Conductor Resistance:     | Max. 9.38             | $\Omega$ /100m@20°C    |
| 5. Resistance Unbalanced:    | Max. 2%               |                        |
| 6. Insulation Resistance:    | >5,000 M $\Omega$ ·km |                        |
| 7. Dielectric Strength:      | 2500 VDC/2 sec        |                        |

Frequency (MHz)	Max. Attenuation (dB/100m)	NEXT (dB,Min)	PS NEXT (dB,Min)
1	2.0	74.3	72.3
4	3.8	65.3	63.3
8	5.3	60.8	58.8
10	6.0	59.3	57.3
16	7.6	56.2	54.2
20	8.5	54.8	52.8
25	9.5	53.3	51.3
31.25	10.7	51.9	49.9
62.5	15.4	47.4	45.4
100	19.8	44.3	42.3
155	25.1	41.5	39.5
200	29.0	39.8	37.8
250	32.8	38.3	36.3
300	36.4	37.2	35.2
400	43.0	35.3	33.3
550	51.6	33.2	32.2