



Category 6 Plenum UTP 1000' 8 Conductor, Bulk, CMP Jacket, 23AWG Solid-Bare Copper, Pull Box (UL / ETL)

**Applications**

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps and 622-Mbps ATM
- Other high-performance applications
  - Backbone
  - Floor-to-floor backbone
  - Horizontal cabling to desktop

**Compliance**

- ISO/IEC 11801
- TIA/EIA-568-C.2 Category 6
- ANSI/ICEA S-90-661 (Category 6)
- NEMA WC63.1 (Category 6)
- CMP Plenum Rated
- UL Listed
- ETL Verified/Listed
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

**Physical Characteristics**

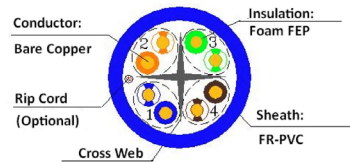
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: Foam-FEP
- Insulation Diameter: 1.017mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: N/A
- Outer Jacket Material: Flame Retardant PVC
- Outer Jacket Diameter: 5.9mm
- Outer Jacket Rip Cord: Yes

## CAT6 550MHz Solid CMP Unshielded Bulk Cable

**CAT6**



**Technical Diagram**



**Available Jacket Colors**

- Black Item# C6UP-3223BK
- Blue Item# C6UP-3224BL
- Gray Item# C6UP-3226GY
- Green Item# C6UP-3225GR
- Red Item# C6UP-5371RD
- White Item# C6UP-3227WH
- Yellow Item# C6UP-3228YL
- Orange Item# C6UP-5369OR
- Purple Item# C6UP-5370PR

**Cable Features**

- Tested to 550MHz.
- Meets or exceeds CAT6 T568C.2 standards.
- Easy to use pull box with bigger payout.
- Cable is marked in descending order so you always know how much cable is in the box.
- Extra headroom provides room for growth.
- Low attenuation and power-sum crosstalk.

**Construction Facts**

- The PVC Cable has high density polyethylene insulation.
- Longitudinal rip cord for easy jacket opening.

**Cable Put-Ups:**

- Cable is supplied in 1000ft increments in a pull box.

**CAT6 550MHz Solid CMP Unshielded Bulk Cable Electrical Specifications**

Frequency MHz (Maximum)	ATT dB/100 m (328 ft.) (Maximum)	ACR dB/100 m (328 ft.) (Maximum)	DELAY ns/100 m (328 ft.) (Minimum)	NEXT dB/100 m (328 ft.) (Minimum)	PS-NEXT dB/100 m (328 ft.) (Minimum)	ELFEXT dB/100 m (328 ft.) (Minimum)	PS-ELFEXT dB/100 m (328 ft.) (Minimum)	Return Loss dB (Minimum)
1	2.00	N/A	N/A	74.3	72.3	N/A	N/A	N/A
4	3.8	N/A	N/A	65.3	63.3	N/A	N/A	N/A
10	6.0	N/A	N/A	59.3	57.3	N/A	N/A	N/A
16	7.6	N/A	N/A	56.2	54.2	N/A	N/A	N/A
20	8.5	N/A	N/A	54.8	52.8	N/A	N/A	N/A
31.25	10.7	N/A	N/A	51.9	49.9	N/A	N/A	N/A
62.5	15.4	N/A	N/A	47.4	45.4	N/A	N/A	N/A
100	19.8	N/A	N/A	44.3	42.3	N/A	N/A	N/A
150	24.9	N/A	N/A	41.4	39.4	N/A	N/A	N/A
200	29.0	N/A	N/A	39.8	37.8	N/A	N/A	N/A
250	32.8	N/A	N/A	38.3	36.3	N/A	N/A	N/A
300	36.4	N/A	N/A	37.2	35.2	N/A	N/A	N/A
400	43.0	N/A	N/A	35.3	33.3	N/A	N/A	N/A
550	51.6	N/A	N/A	33.2	31.2	N/A	N/A	N/A

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# CAT6 550MHz Solid CMP Unshielded Bulk Cable

### Pair Color Code Chart

- Pair 1 ----- White/Blue Stripe & Blue
- Pair 2 ----- White/Orange Stripe & Orange
- Pair 3 ----- White/Green Stripe & Green
- Pair 4 ----- White/Brown Stripe & Brown

### Mechanical Characteristics

- Storage Temperature Range: -30~+60
- Installation Temperature Range: -30~+60
- Operating Temperature Range: -30~+60
- Bulk Cable Weight: N/Albs. / 1000FT
- Max. Recommended Pulling Tension: N/A
- Min. Bend Radius/Minor Axis: N/A
- Min. Bend/Installation: N/A
- Test Object: Jacket
- Test Material: PVC
- Before Tensile Strength: Min. 1.407 Kg/mm<sup>2</sup>
  - Aging Elongation: Min. 100%
  - Aging Condition: 100°C x 24hrs
- After Tensile Strength: Min. 85%
  - Aging Elongation: Min. 50%
  - Cold Bend: N/A

### Optional Networking Accessories

#### RJ45 Modular Plugs

Our RJ45's are gold plated & work with solid or stranded cable.

- CN1-019-8CUL



#### RJ11, RJ12 & RJ45 Ratchet Crimping Tool

The right tool makes all the difference, and you can cut, strip and crimp with this one tool.

- TL1-115



### Electrical Characteristics

- Capacitance Unbalance Max: 330 pF/100mm
- Nominal Velocity of Propagation: N/A
- Maximum Delay: N/A
- Maximum Delay Skew: N/A
- Maximum Conductor DC Resistance: 9.38 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: N/A
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
  - 32.8dB/100m (328.1ft.) @ 250MHz
  - 51.6dB/100m (328.1ft.) @ 550MHz
- 1.0 - 100MHz Impedance: 100Ω ± 15%
- 100 - 250MHz Impedance: 100Ω ± 22%
- NEXT (Minimum)
  - 38.3dB/100m (328.1ft.) @ 250MHz
  - 33.2dB/100m (328.1ft.) @ 550MHz
- PS-NEXT (Minimum)
  - 36.3dB/100m (328.1ft.) @ 250MHz
  - 31.2dB/100m (328.1ft.) @ 550MHz

### Jacket Printing

E317493 (UL) MIG+ PLENUM UTP 4PR 23AWG CMP FT6 (VID: 007)  
ETL VERIFIED TO ANSI/TIA-568 -C.2 CAT6 550 MHZ XXXXFT

Sequential foot markers on jacket.

### Optional Networking Accessories

#### Cat6 MIG+ Keystone Jacks

Our Category 6 180° Component Rated 110 HD modular keystone jacks include a plastic housing & 8 bronze pins with gold plating.

- K62-4676/180/BL
- K62-4675/180/BK
- K62-4681/180/RD
- K62-4677/180/GR
- K62-4679/180/IV
- K62-4680/180/OR
- K62-4682/180/WH
- K62-4683/180/YL



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