



**Category 6 600MHz UTP Unshielded 1000' 8 Conductor, Bulk, PVC Jacket, 24AWG 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)
- CMR Rated
- UL Listed
- ETL Verified
- RoHS Compliance For The Requirement Of European Union Issued Directive 2002/95/EC

#### Physical Characteristics

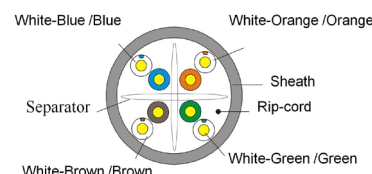
- Conductor Size: 24AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene
- Insulation Diameter:  $0.98 \pm 0.03\text{mm}$
- Number Of Conductors: 8 Conductors
- Number Of Pairs: 4 Pairs
- Drain Wire: No
- Outer Jacket Material: CMR-UL PVC (Complies RoHS)
- Outer Jacket Diameter:  $6.0\text{mm} \pm 0.4\text{mm}$
- Outer Jacket Rip Cord: Yes

## CAT6 600MHz Solid Unshielded Bulk Cable

**CAT6**



#### Technical Diagram



#### Available Jacket Colors

- Black Item# C6U-5014RK
- Blue Item# C6U-5374RB
- Gray Item# C6U-5375RG
- Green Item# C6U-5016RN
- Red Item# C6U-5020RD
- White Item# C6U-5376RW
- Yellow Item# C6U-5022RY
- Orange Item# C6U-5018RO
- Purple Item# C6U-5019RP

#### Cable Features

- Tested To 600MHz
- 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 600MHz Solid Unshielded Bulk Cable Electrical Specifications

| Frequency<br>MHz<br>(Maximum) | ATT<br>dB/100 m<br>(328 ft.)<br>(Maximum) | ACR<br>dB/100 m<br>(328 ft.)<br>(Maximum) | DELAY<br>ns/100 m<br>(328 ft.)<br>(Minimum) | NEXT<br>dB/100 m<br>(328 ft.)<br>(Minimum) | PS-NEXT<br>dB/100 m<br>(328 ft.)<br>(Minimum) | ELFEXT<br>dB/100 m<br>(328 ft.)<br>(Minimum) | PS-ELFEXT<br>dB/100 m<br>(328 ft.)<br>(Minimum) | Return Loss<br>dB<br>(Minimum) |
|-------------------------------|---|---|---|--|---|--|---|--------------------------------|
| 1                             | 2.03                                      | N/A                                       | 570.00                                      | 74.3                                       | 72.3  | 67.8   | 64.8  | 20.0                           |
| 4                             | 3.78                                      | N/A                                       | 552.00                                      | 65.3                                       | 63.3  | 55.8   | 52.8  | 23.0                           |
| 8                             | 5.32                                      | N/A                                       | 546.73                                      | 60.8                                       | 58.8  | 49.7   | 46.7  | 24.5                           |
| 10                            | 5.95                                      | N/A                                       | 545.38                                      | 59.3                                       | 57.3  | 47.8   | 44.8  | 25.0                           |
| 16                            | 7.55                                      | N/A                                       | 543.00                                      | 56.2                                       | 54.2  | 43.7   | 40.7  | 25.0                           |
| 20                            | 8.47                                      | N/A                                       | 542.05                                      | 54.8                                       | 52.8  | 41.8   | 38.8  | 25.0                           |
| 25                            | 9.51                                      | N/A                                       | 541.20                                      | 53.3                                       | 41.3  | 39.8   | 36.8  | 24.3                           |
| 31.25                         | 10.67                                     | N/A                                       | 540.44                                      | 51.9                                       | 49.9  | 37.9   | 34.9  | 23.6                           |
| 62.50                         | 15.38                                     | N/A                                       | 538.55                                      | 47.7                                       | 45.4  | 31.9   | 28.9  | 21.5                           |
| 100                           | 19.80                                     | N/A                                       | 537.60                                      | 44.3                                       | 42.3  | 27.8   | 24.8  | 20.1                           |
| 250                           | 32.85                                     | N/A                                       | 536.27                                      | 38.3                                       | 36.3  | 19.8   | 16.8  | 17.3                           |
| 350                           | 39.79                                     | N/A                                       | 535.92                                      | 36.1                                       | 34.1  | 16.9   | 13.9  | 16.3                           |
| 450                           | 46.01                                     | N/A                                       | 535.70                                      | 34.5                                       | 32.5  | 14.7   | 11.7  | 15.5                           |
| 600                           | 54.49                                     | N/A                                       | 535.47                                      | 32.6                                       | 30.6  | 12.2   | 9.2   | 14.7                           |

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## CAT6 600MHz Solid 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: 29lbs. / 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:  $\geq 13.5$ 
  - Aging Elongation:  $\geq 150$
  - Aging Condition: 100°C x 24hrs x 7Days
- After Tensile Strength:  $\geq 12.5$ 
  - Aging Elongation:  $\geq 125$
  - Cold Bend: No Visible Cracks (-20°±2°x4h)

### Electrical Characteristics

- Unbalanced to Ground Capacitance Max: N/A
- Nominal Velocity of Propagation: N/A
- Maximum Delay: 537.60 @ 100MHz (ns/100m)
- Maximum Delay Skew:  $\leq 45$  (ns/100m)
- Maximum Conductor DC Resistance: 9.5 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V RMS
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
  - 32.85dB/100m (328.1ft.) @ 250MHz
  - 54.49dB/100m (328.1ft.) @ 600MHz
- 1.0 - 250MHz Impedance: 100Ω ± 15%
- NEXT (Minimum)
  - 38.3dB/100m (328.1ft.) @ 250MHz
  - 32.6dB/100m (328.1ft.) @ 600MHz
- PS-NEXT (Minimum)
  - 36.3dB/100m (328.1ft.) @ 250MHz
  - 30.6dB/100m (328.1ft.) @ 600MHz
- Return Loss (Minimum)
  - 17.3dB/100m (328.1ft.) @ 250MHz
  - 14.7dB/100m (328.1ft.) @ 600MHz

### Jacket Printing

E317493-018 (UL) C (UL) CMR 4PR 24AWG CAT6 UTP 600 MHZ ETL  
VERIFIED TO ANSI/TIA/EIA-568-B.2-1 ZONE A B C D E F /  
DEVICE 1 2 3 4 5 6 7 8 9

Sequential foot markers on jacket.

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