



**Category 6 600MHz Outdoor Unshielded Twisted Pairs (UTP) 23 AWG 4 Pair 8 Solid Bare Copper Conductors, Black UV LDPE Jacket with Messenger 1000FT (ETL)**

**Applications**

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps and 622-Mbps ATM
- Other high-performance applications
  - Aerial Applications
  - Outdoor Applications
  - Antennas

**Compliance**

- ISO/IEC 11801
- TIA/EIA-568-C.2 Category 6
- ANSI/ICEA S-90-661 Category 6
- NEMA WC63.1 Category 6
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

**Physical Characteristics**

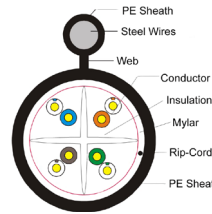
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: 1.02 ± 0.3mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Messenger: 1.2 mm Steel Wires
- Outer Jacket Material: LDPE (RoHS Compliant)
- Outer Jacket Diameter: 6.6 / 2.6mm ± 0.4mm
- Outer Jacket Rip Cord: Yes

**CAT 6 600MHz Outdoor Solid UTP Bulk Cable w/ Messenger**

**CAT6**



**Technical Diagram**



**Available Jacket Colors**

- Black Item# C6CMXUM-1918

**Cable Features**

- Rated up to 600MHz.
- Meets or exceeds CAT 6 TIA568C.2 standards.
- Cable is marked in descending order so you always know how much cable is left.
- Extra headroom provides room for growth.
- Low attenuation and power-sum crosstalk.

**Construction Facts**

- This Outdoor Cable has high density polyethylene insulation.
- Longitudinal rip cord for easy jacket opening.

**Cable Put-Ups:**

- Cable is supplied in 1000ft increments on a wooden spool or on a wooden spool.

**CAT 6 600MHz Outdoor Solid 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) |
|-------------------------|----------------------------------|----------------------------------|------------------------------------|-----------------------------------|--------------------------------------|-------------------------------------|--|--------------------------|
| 1.0                     | 2.03                             | N/A                              | 570.00                             | 74.3                              | 72.3                                 | 67.8                                | 64.8                                   | 20.0                     |
| 4.0                     | 3.78                             | N/A                              | 552.00                             | 65.3                              | 63.3                                 | 55.8                                | 52.8                                   | 23.0                     |
| 8.0                     | 5.32                             | N/A                              | 546.73                             | 60.8                              | 58.8                                 | 49.7                                | 46.7                                   | 24.5                     |
| 10.0                    | 5.95                             | N/A                              | 545.38                             | 59.3                              | 57.3                                 | 47.8                                | 44.8                                   | 25.0                     |
| 16.0                    | 7.55                             | N/A                              | 543.00                             | 56.2                              | 54.2                                 | 43.7                                | 40.7                                   | 25.0                     |
| 20.0                    | 8.47                             | N/A                              | 542.05                             | 54.8                              | 52.8                                 | 41.8                                | 38.8                                   | 25.0                     |
| 25.0                    | 9.51                             | N/A                              | 541.20                             | 53.3                              | 51.3                                 | 39.8                                | 36.8                                   | 24.3                     |
| 31.25                   | 10.67                            | N/A                              | 540.44                             | 51.9                              | 49.9                                 | 37.9                                | 34.9                                   | 23.6                     |
| 62.5                    | 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                     |
| 200                     | 28.98                            | N/A                              | 536.54                             | 39.8                              | 37.8                                 | 21.8                                | 18.8                                   | 18.0                     |
| 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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## CAT 6 600MHz Outdoor Solid UTP Bulk Cable w/ Messenger

### 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: -40~+60
- Operating Temperature Range: -40~+60
- Bulk Cable Weight: 43 lbs. / 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:  $\geq 10.0$ 
  - Aging Elongation:  $\geq 350$
  - Aging Condition: 100°C x 24hrs x 10Days
- After Tensile Strength:  $\geq 12.5$ 
  - Aging Elongation:  $\geq 300$
  - Cold Bend: No Visible Cracks (-20°C  $\pm$  2°C x 4h)

### Jacket Printing

PRIMUS CABLE CAT6 UTP 4PR 23 AWG 600 MHZ UV  
OUTDOOR PE ANSI/TIA-568-C.2 (VID:018) ZONE A  
B C D E F / Device 1 2 3 4 5 6 7 8 9

Sequential foot markers on jacket.

### Electrical Characteristics

- Maximum Unbalanced to ground capacitance: 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)
  - 39.79dB/100m (328.1ft.) @ 350MHz
  - 54.49dB/100m (328.1ft.) @ 600MHz
- 1.0 - 100MHz Impedance: 100 $\Omega$   $\pm$  15%
- NEXT (Minimum)
  - 36.1dB/100m (328.1ft.) @ 350MHz
  - 32.6dB/100m (328.1ft.) @ 600MHz
- PS-NEXT (Minimum)
  - 34.1dB/100m (328.1ft.) @ 350MHz
  - 30.6dB/100m (328.1ft.) @ 600MHz
- Return Loss (Minimum)
  - 16.3dB/100m (328.1ft.) @ 350MHz
  - 14.7dB/100m (328.1ft.) @ 600MHz

### Optional Cat 6 Solid Unshielded Modular Plugs

This Unshielded Cat 6 RJ45 modular plug is designed to work on Cat 6 solid cables. Our RJ45 connectors are both durable and reliable. These are 8 pin, 8 connector pins. The pins are bronze with gold plating, making them resistant to corrosion and wear, while exceeding the Cat 6 cable standards.



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