



**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
- ANSI/TIA-568.2-D Category 6
- 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 ANSI/TIA-568.2-D 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: 200N
- 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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