



Category 6 Outdoor UTP 23 AWG 4 Pair 8 Solid Bare Copper Conductors, Black UV CMX PVC Jacket 1000FT (ETL). Our bulk cable is marked in descending order so you always know how much cable is left.

**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
- UL Listed
- ETL Verified
- RoHS Compliance For The Requirement of European Union Issued Directive 2002/95/EC

**Physical Characteristics**

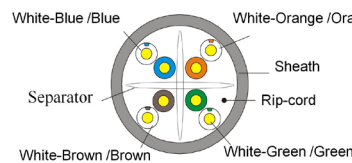
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: N/A
- Drain Wire: N/A
- Outer Jacket Material: FR PVC CMX (Complies RoHS)
- Outer Jacket Diameter: 6.2mm ± 0.4mm
- Outer Jacket Rip Cord: Yes

## CAT6 600MHz Outdoor Solid Unshielded Bulk Cable

**CAT6**



**Technical Diagram**



**Available Jacket Colors**

- Pull Box Item# C6CMX-1464BK
- Spool Item# C6CMX-2043BK
- Item# C6CMX-7812BK
- Item# C6CMX-7811BK

**Cable Features**

- Tested to 600MHz
- Meets or Exceeds CAT6 ANSI/TIA-568.2-D Standards
- 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 Pull Box.

**CAT6 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
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 Outdoor 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: N/A / 1000FT
- Max. Recommended Pulling Tension: 100N
- Min. Bend Radius/Minor Axis: 6D
- Min. Bend/Installation: 6D
- 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°C  $\pm$  2°C x 4h)

### Electrical Characteristics

- Nominal. Mutual Capacitance: N/A
- Nominal Velocity of Propagation: N/A
- Maximum Delay: 536.27 @ 250MHz (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: 100 $\Omega$   $\pm$  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) CMX CAT 6 4PR 23 AWG UTP 600MHz UV  
OUTDOOR ETL VERIFIED TO ANSI/TIA-568.2-D #####FT.

Sequential foot markers on jacket.

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