



This Category 6A Unshielded (UTP) Outdoor Cable has four pairs of 23AWG Solid Bare Copper Conductors with a Black UV rated PVC Jacket. This cable is supplied on a 1000FT wooden spool and is ETL Listed. 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
- TIA/EIA-568-C.2
- ETL Listed
- RoHS Compliance For The Requirement Of European Union Issued Directive 2002/95/EC

**Physical Characteristics**

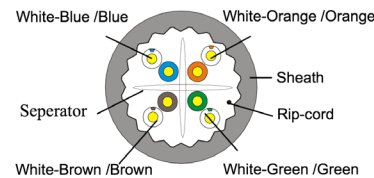
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: N/A
- Drain Wire: N/A
- Outer Jacket Material: UV PVC (Complies RoHS)
- Outer Jacket Diameter: 7.1mm ± 0.4mm
- Outer Jacket Rip Cord: Yes

## CAT6A 750MHz Outdoor Solid Unshielded Bulk Cable

**CAT6A**



**Technical Diagram**



**Available Jacket Colors**

- Black Item# C6AX-1503

**Cable Features**

- Tested up to 750MHz
- Meets or Exceeds CAT6A TIA568C.2 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.

### CAT6A 750MHz 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	2.1	---	570.0	74.3	72.3	68.0	65.0	20.0
4	3.8	---	552.0	65.3	63.3	56.0	53.0	23.0
8	5.3	---	546.7	60.8	58.8	49.9	46.9	24.5
10	5.9	---	545.4	59.3	57.3	48.0	45.0	25.0
16	7.5	---	543.0	56.2	54.2	43.9	40.9	25.0
20	8.4	---	542.1	54.8	52.8	42.0	39.0	25.0
25	9.4	---	541.2	53.3	51.3	40.0	37.0	24.3
31.25	10.5	---	540.4	51.9	49.9	38.1	35.1	23.6
62.5	15.0	---	538.6	47.4	45.4	32.1	29.1	21.5
100	19.1	---	537.6	44.3	42.3	28.0	25.0	20.1
200	27.6	---	536.5	39.8	37.8	22.0	19.0	18.0
250	31.1	---	536.3	38.3	36.3	20.0	17.0	17.3
300	34.3	---	536.1	37.1	35.1	18.5	15.5	16.8
500	45.3	---	535.6	33.8	31.8	14.0	11.0	15.2
750	62.3	---	535.3	31.1	29.1	10.5	7.5	14.0





## CAT6A 750MHz 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 Length: 1000FT
- Max. Recommended Pulling Tension: 70N
- 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)

### Optional Networking Accessories

#### Shielded RJ45 Modular Plugs

Our CAT6A shielded RJ45's are gold plated & work with solid or stranded cable.

- CN1-021-8C6SH



#### CAT6A RJ45 Ratchet Crimping Tool

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

- TL1-4591



### Electrical Characteristics

- Nominal Mutual Capacitance: 5.5nF/100m
- Nominal Velocity of Propagation: 68%
- Maximum Delay: 536.1 @ 300MHz (ns/100m)
- Maximum Delay Skew:  $\leq 45$  (ns/100m)
- Maximum Conductor DC Resistance: 9.38 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
  - 34.3 dB/100m (328.1ft.) @ 300MHz
  - 62.3 dB/100m (328.1ft.) @ 750MHz
- 1.0 - 250MHz Impedance: 100 $\Omega$   $\pm$  15
- 251 - 500MHz Impedance: 100 $\Omega$   $\pm$  22
- NEXT (Minimum)
  - 37.1 dB/100m (328.1ft.) @ 300MHz
  - 31.1 dB/100m (328.1ft.) @ 600MHz
- PS-NEXT (Minimum)
  - 35.1 dB/100m (328.1ft.) @ 300MHz
  - 29.1 dB/100m (328.1ft.) @ 600MHz
- Return Loss (Minimum)
  - 16.8 dB/100m (328.1ft.) @ 300MHz
  - 14 dB/100m (328.1ft.) @ 600MHz

### Jacket Printing

PRIMUS CABLE CMX UTP 4PR 23AWG CAT6A 10G UV OUTDOOR  
ETL VERIFIED TO ANSI/TIA 568-C.2 ZONE A B C D E F /  
DEVICE 1 2 3 4 5 6 7 8 9 (VID:018) #####FT

Sequential foot markers on jacket.

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