

# Show Me

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# CAT6 UTP SOLID PVC CABLE

PART NO. 85-600-315BL

Category 6 UTP Unshielded 1000' 8 Conductor, Bulk, PVC Jacket, 23AWG 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/CEA S-90-661 (Category 6)
- NEMA WC63.1 (Category 6)
- UL Listed CMR Rated
- 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
- Insulation Diameter:  $0.98 \pm 0.03\text{mm}$
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: N/A
- Drain Wire: No
- Outer Jacket Material: CMR-UL PVC (Complies RoHS)
- Outer Jacket Diameter:  $6.1\text{mm} \pm 0.4\text{mm}$
- Outer Jacket Rip Cord: Yes

### Pair Color Code Chart

Pair 1 ----- White/Blue Stripe & Blue  
 Pair 2 ----- White/Orange Stripe & Orange  
 Pair 3 ----- White/Green Stripe & Green  
 Pair 4 -----

### Mechanical Characteristics

Storage Temperature Range: -30~+60  
 Installation  
 Operating  
 Bulk Cable Weight: N/A/lbs. / 1000FT  
 Max. Recommended Pulling Tension: N/A  
 Min. Bend Radius/Minor Axis:  
 Min. Bend/Installation:  
 • Test Object: Jacket  
 • Test Material: PVC  
 • Before Tensile Strength:  $\geq 13.5$ 

- Aging Elongation:  $\geq 150$
- Aging Condition: 100 x 24hrs x 7Days

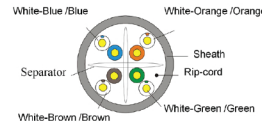
 • After Tensile Strength:  
 Aging Elongation:  $\geq 125$ 

- Cold Bend: No Visible Cracks ( $-20^{\circ} \pm 2^{\circ} \times 4\text{h}$ )

## CAT6



### Technical Diagram



### Available Jacket Colors

- Black Item# C6U-5383RK
- Blue Item# C6U-5015RB
- Gray Item# C6U-5387RY
- Green Item# C6U-5384RN
- Red Item# C6U-5386RD
- White Item# C6U-5021RW
- Yellow Item# C6U-5387RY
- Orange Item# C6U-5385RO
- Purple Item# C6U-5389RP

### 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 Longitudinal rip cord for easy jacket opening.

### Cable Put-Ups:

- Cable is supplied in 1000ft increments in a pull box

### Electrical Characteristics

- Unbalanced to Ground Capacitance Max: N/A
- Nominal Velocity of Propagation: N/A
- Maximum Delay: 537.60 @ 100MHz (ns/100m)  $\leq 45$  (ns/100m)
- Maximum Conductor DC Resistance: 9.5 (@ 20°C OHM/100m) 300V RMS
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
  - 32.85dB/100m (328.1ft.) @ 250MHz
  - 54.49dB/100m (328.1ft.) @ 600MHz
- NEXT (Minimum) Impedance: 100Ω
  - 38.3dB/100m (328.1ft.) @ 250MHz
  - 32.6dB/100m (328.1ft.) @ 600MHz
- PS-NEXT (Minimum)
  - 38.3dB/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 23AWG CAT6 UTP 600MHz  
 ETL VERIFIED TO ANSI/TIA-568-C.2-1 ZONE ABCDEF / DEVICE  
 123456789 XXXXFT

Sequential foot markers on jacket.

### CAT6 600MHz Solid Unshielded 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	2.03	N/A	570.00	74.3	72.3	67.8	64.8	20.0
4	3.78	N/A	562.00	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	19.8	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