



Category 6 F/UTP 23 AWG 4 Pair 8 Solid Bare Copper Conductors, AL Foil Shielded, Black UV Resistant CMR/CMX PVC Jacket 1000FT (ETL).

**Applications**

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps and 622-Mpbs ATM

**Compliance**

- ISO/IEC 11801
- ANSI/TIA-568.2-D Category 6
- ICEA S-90-661 Category 6
- NEMA WC63.1 Category 6
- ETL Listed
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

**Physical Characteristics**

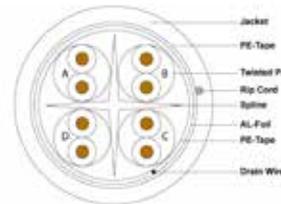
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: 1.06 ± 0.01mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: Aluminum Foil
- Drain Wire: Yes, Tinned Copper
- Outer Jacket Material: FR-PVC (UV)
- Outer Jacket Diameter: 7.90mm ± 0.2mm
- Outer Jacket Rip Cord: Yes

## CAT6 600MHz CMR/CMX Solid F/UTP Bulk Cable

**CAT6**



**Technical Diagram**



**Available Jacket Colors**

- Black Item# C6CMXR-1069BK

**Cable Features**

- Tested to 600MHz.
- Meets or exceeds CAT6 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 Cable has high density polyethylene insulation.
- Longitudinal rip cord for easy jacket opening.

**Cable Put-Ups:**

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

### CAT6 600MHz Indoor/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	2.0	72.3	570.0	74.3	72.3	67.8	64.8	20.0
4.0	3.8	61.5	552.0	65.3	63.3	55.8	52.8	23.0
8.0	5.3	55.5	546.0	60.8	58.8	49.7	46.7	24.5
10.0	6.0	53.3	545.0	59.3	57.3	47.8	44.8	25.0
16.0	7.6	48.6	543.0	56.2	54.2	43.7	40.7	25.0
20.0	8.5	46.3	542.0	54.8	52.8	41.8	38.8	25.0
25.0	9.5	43.8	541.0	53.3	51.3	39.8	36.8	24.3
31.25	10.7	41.2	540.0	51.9	49.9	37.9	34.9	23.6
62.5	15.4	32.0	538.0	47.4	45.4	31.9	28.9	21.5
100	19.8	24.5	537.0	44.3	42.3	27.8	24.8	20.1
200	29.0	10.8	536.0	39.8	37.8	21.8	18.8	18.0
250	32.8	5.5	536.0	38.3	36.3	19.8	16.8	17.3
300	34.3	N/A	535.0	38.0	35.1	18.5	15.3	14.9
500	45.3	N/A	534.0	34.8	31.8	14.0	10.8	13.0
600	48.5	N/A	534.0	33.6	30.6	12.0	9.2	12.3

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## CAT6 600MHz CMR/CMX Solid F/UTP 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: -20~+60°C
- Installation Temperature Range: -20~+60°C
- Operating Temperature Range: 0~+50°C
- Bulk Cable Weight: N/A / 1000FT
- Max. Recommended Pulling Tension: 110N
- Min. Bend Radius/Minor Axis: 31mm
- Min. Bend/Installation: 62mm
- Test Object: Jacket
- Test Material: PVC
- Before Tensile Strength:  $\geq 13.8$ 
  - Aging Elongation:  $\geq 100$
  - Aging Condition: 100°C x 24hrs x 7Days
- After Tensile Strength:  $\geq 75\%$  of unaged
  - Aging Elongation:  $\geq 75\%$  of unaged
  - Cold Bend: No Visible Cracks (-20°C  $\pm$  2°C x 4h)
- 300 Hours Weatherometer Test: Pass

### Electrical Characteristics

- Nom. Mutual Capacitance: 46pF/m
- Pair to Ground Capacitance Unbalance:  $\leq 330$  (pF/100m)
- Nominal Velocity of Propagation: 69%
- Maximum Propagation Delay: 534+36 (ns/100m)
- Maximum Delay Skew:  $\leq 45$  (ns/100m)
- Maximum Conductor DC Resistance: 9.0 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V RMS
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
  - 22.0dB/100m (328.1ft.) @ 100MHz
  - 44.9dB/100m (328.1ft.) @ 350MHz
- 1.0 - 250.0MHz Impedance:  $100\Omega \pm 15\%$
- NEXT (Minimum)
  - 35.3dB/100m (328.1ft.) @ 100MHz
  - 27.2dB/100m (328.1ft.) @ 350MHz
- PS-NEXT (Minimum)
  - 32.3dB/100m (328.1ft.) @ 100MHz
  - 24.2dB/100m (328.1ft.) @ 350MHz
- Return Loss (Minimum)
  - 20.1dB/100m (328.1ft.) @ 100MHz
  - 16.3dB/100m (328.1ft.) @ 350MHz

### Jacket Printing

PRIMUS CABLE ETL LISTED CAT6 FUTP 4PR 23AWG 600MHz  
CMR/CMX VERIFIED TO ANSI/TIA – 568-C.2 ZONE A B C D E F /  
DEVICES 1 2 3 4 5 6 7 8 9 (VID:011) ID#1069-### 1000/0000FT

Sequential foot markers on jacket.

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