



**Category 6 600MHz Outdoor Shielded Twisted Pairs (F/UTP) 23 AWG 4 Pair 8 Solid Bare Copper Conductors, Black UV LDPE Jacket with Messenger 1000FT**

**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**

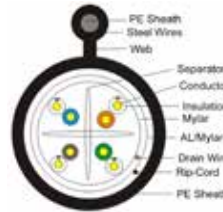
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: 1.12 ± 0.4mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: Mylar+Aluminum/Mylar
- Drain Wire: Yes
- Outer Jacket Rip Cord: Yes
- Messenger: 1.2 mm Steel Wires
- Outer Jacket Material: PE (RoHS Compliant)
- Outer Jacket Diameter: 7.8 / 2.6mm ± 0.4mm

**CAT 6 600MHz Outdoor Solid F/UTP Bulk Cable w/ Messenger**

**CAT6**



**Technical Diagram**



**Available Jacket Colors**

- Black Item# C6CMXSM-1919

**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.

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

PrimusCable.com - (951) 824-1571





## CAT 6 600MHz Outdoor Solid F/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: 51 lbs. / 1000FT
- Max. Recommended Pulling Tension: 200N
- Min. Bend Radius: 15x The Cable O.D.
- 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 FTP 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: 330 (pf/100m)
- 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 Shielded Modular Plugs

This shielded 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. To terminate this plug we recommend using TL1-4591.



CN1-022-8C6AS

©2022 CRN Solutions Inc. dba. Primus Cable  
All Rights Reserved.

Although Primus Cable makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Primus Cable provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Primus Cable be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Primus Cable has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Primus Cable products are subject to Primus Cable's standard terms and conditions of sale.

Primus Cable believes this product to be in compliance with EU RoHS (Directive 2002/EC, 27 Jan 2003). Material manufactured prior to the compliance date may be in stock at Primus Cable facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Primus Cable's knowledge, information, and belief at the date any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification and regulations based on their individual usage of the product.

Primus Cable declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC

