



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
- TIA/EIA-568-C.2 Category 6
- ANSI/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

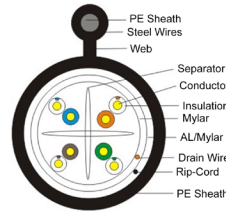
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: 1.12 ± 0.4mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: Mylar+Aluminum/Mylar
- Drain Wire: Yes
- Outer Jacket Rip 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 TIA568C.2 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 or 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: N/A
- Installation Temperature Range: N/A
- Operating Temperature Range: N/A
- Bulk Cable Weight: 51 lbs. / 1000FT
- Max. Recommended Pulling Tension: N/A
- Min. Bend Radius/Minor Axis: N/A
- Min. Bend/Installation: N/A
- Test Object: Jacket
- Test Material: PVC
- Before Tensile Strength: ≥ 10.0
 - Aging Elongation: ≥ 350
 - Aging Condition: $100^{\circ}\text{C} \times 24\text{hrs} \times 10\text{Days}$
- After Tensile Strength: ≥ 12.5
 - Aging Elongation: ≥ 300
 - Cold Bend: No Visible Cracks ($-20^{\circ}\text{C} \pm 2^{\circ}\text{C} \times 4\text{h}$)

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: ≤ 45 (ns/100m)
- Maximum Conductor DC Resistance: 9.5 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: N/A
- 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.



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