

Category 6 Outdoor Direct Burial AL Foil Shielded F/UTP 23 AWG 4 Pair 8 Solid Bare Copper Conductors, Waterblock Tape, Black UV CMX PVC Jacket 1000FT

Applications

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps and 622-Mbps ATM
- Other high-performance applications
 - Outside Plant
 - Direct Burial
 - Aerial

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 ± 0.03mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Screening Material: Mylar + Water Blocking Tape
- Drain Wire: Tinned Copper
- Outer Shield Material: AL Foil/Mylar
- Outer Jacket Rip Cord: Yes
- Outer Jacket Material: LDPE (Complies RoHS)
- Outer Jacket Diameter: 7.8mm ± 0.4mm

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

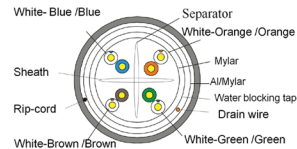
Mechanical Characteristics

- Storage Temperature Range: -30~+60
- Installation Temperature Range: -40~+60
- Operating Temperature Range: -40~+60
- Bulk Cable Weight: N/A / 1000FT
- Max. Recommended Pulling Tension: 100N
- Min. Bend Radius/Minor Axis: 8D
- Min. Bend/Installation: 8D
- Test Object: Jacket
- Test Material: PVC
- Before Tensile Strength: ≥ 10.0
 - Aging Elongation: ≥ 350
 - Aging Condition: 100°C x 24hrs x 10Days
- After Tensile Strength: N/A
 - Aging Elongation: ≥ 300
 - Cold Bend: No Visible Cracks (-20°C ± 2°C x 4h)

CAT6



Technical Diagram



Available Jacket Colors

- Black Item# C6CMXT-2045BK

Cable Features

- Tested to 600MHz.
- Meets or exceeds CAT6 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 Direct Burial Cable has HDPE insulation.
- AL foil shielding is used to eliminate interference in noisy environments.
- The cable includes waterblock tape for added moisture protection.
- Longitudinal rip cord for easy jacket opening.

Cable Put-Ups:

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

Electrical Characteristics

- Maximum Capacitance Unbalance to earth: 330 (pf/100m)
- Nominal Velocity of Propagation: 68%
- Maximum Delay: 536.27 @ 250MHz (ns/100m)
- Maximum Delay Skew: ≤ 45 (ns/100m)
- Maximum Conductor DC Resistance: 9.38 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V RMS
- Maximum DCR Unbalance: 5% (@ 20°C)
- Attenuation (Maximum)
 - 32.85dB/100m (328.1ft.) @ 250MHz
 - 54.49dB/100m (328.1ft.) @ 600MHz
- 1.0 - 250MHz Impedance: 100Ω ± 15
- NEXT (Minimum)
 - 38.3dB/100m (328.1ft.) @ 250MHz
 - 32.6dB/100m (328.1ft.) @ 600MHz
- PS-NEXT (Minimum)
 - 36.3dB/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

PRIMUS CABLE CAT6 FTP 4PR 23AWG 600MHZ DIRECT BURIAL (DRY) UV OUTDOOR PE ANSI/TIA/EIA-568-C.2-1 ZONE A B C D E F / Device 1 2 3 4 5 6 7 8 9

Sequential foot markers on jacket.

CAT6 600MHz Outdoor Direct Burial Shielded 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
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