



Category 6 Outdoor Direct Burial Cable with AL Foil Shielding F/UTP has 4 pairs of 23AWG solid bare copper conductors with HDPE insulation. Although direct burial, the use of a conduit is recommended for this cable. Our direct burial cable also has a LDPE jacket and is supplied on a 1000ft wooden spool. Our bulk cable is marked in descending order so you always know how much cable is left.

Applications

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps and 622-Mbps ATM
- Other High Performance Applications
 - Outside Plant
 - Direct Burial
 - Outdoor

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

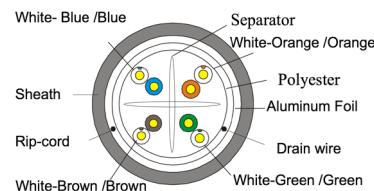
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: 1.09 ± 0.03mm
- Number Of Conductors: 8 Conductors
- Number Of Pairs: 4 Pairs
- Outer Shield Material: Aluminum Foil
- Drain Wire: Yes
- Outer Jacket Material: LDPE (Complies RoHS)
- Outer Jacket Diameter: 7.4mm ± 0.4mm
- Outer Jacket Rip Cord: Yes

CAT 6 600MHz Outdoor Solid Direct Burial Shielded Bulk Cable

CAT6



Technical Diagram



Available Jacket Colors

- Black Item# C6CMXE-5365BK
- Item# C6CMXE-7814BK
- Item# C6CMXE-7813BK

Cable Features

- Meets or Exceeds CAT 6 ANSI/TIA-568.2-D Standards
- Extra Headroom Provides Room For Growth
- Low Attenuation and Power-Sum Crosstalk

Construction Facts

- The Cable Has High Density Polyethylene Insulation
- AL Shielding is Used to Help Eliminate Interference
- Longitudinal Rip Cord For Easy Jacket Opening

Cable Put-Ups:

Cable is Supplied in 1000ft Increments on a Wooden Spool.

CAT 6 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	2.03	-	570.00	74.3	72.3	68.0	65.0	20.0
4	3.78	-	552.00	65.3	63.3	56.0	53.0	23.0
8	5.32	-	546.73	60.8	58.7	49.9	46.9	24.5
10	5.95	-	545.38	59.3	57.3	48.0	45.0	25.0
16	7.55	-	543.00	56.2	54.2	43.9	40.9	25.0
20	8.47	-	542.05	54.8	52.8	42.0	39.0	25.0
25	9.51	-	541.20	53.3	51.3	40.0	37.0	24.3
31.25	10.67	-	540.44	52.0	49.9	38.1	35.1	23.6
62.50	15.38	-	538.55	47.4	45.4	32.1	29.1	21.5
100	19.80	-	537.60	44.3	42.3	28.0	25.0	20.1
200	28.98	-	536.54	39.8	37.8	22.0	19.0	18.0
250	32.85	-	536.27	38.3	36.3	20.0	17.0	17.3
350	39.79	-	535.92	36.1	34.1	16.9	13.9	16.3
550	51.76	-	535.5	33.2	31.2	13.0	10.0	14.9
600	54.49	-	535.47	32.6	30.6	12.2	9.2	14.7

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CAT 6 600MHz Outdoor Solid Direct Burial Shielded 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: -30° ~+60°C
- Installation Temperature Range: -40° ~+60°C
- Operating Temperature Range: -40° ~+60°C
- 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: LDPE
- Before Tensile Strength: ≥ 10.0
 - Aging Elongation: ≥ 350
 - Aging Condition: 100°C x 24hrs x 10Days
- After Tensile Strength: N/A
 - Aging Elongation: $\geq 300\%$
 - Cold Bend: No Visible Cracks (-20°C \pm 2°x4h)

Jacket Printing

PRIMUS CABLE CAT6 FTP 4PR 23 AWG 600MHZ UV
OUTDOOR DIRECT BURIAL TIA/EIA-568.2-D ZONE
ABCDEF / DEVICE 123456789 XXXX FT

Sequential Foot Markers on Jacket.

Electrical Characteristics

- Unbalanced Pair-To-Ground Capacitance Max: ≤ 330 (pF/100m)
- Nominal Mutual Capacitance: N/A
- Nominal Velocity of Propagation: 68%
- Maximum Delay: 537.60 @ 100MHz (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 Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
 - 39.79dB/100m (328.1ft.) @ 350MHz
 - 54.49dB/100m (328.1ft.) @ 600MHz
- 1.0 - 100MHz Impedance: 100 Ω \pm 15%
- NEXT (Minimum)
 - 36.1dB/100m (328.1ft.) @ 350MHz
 - 32.6dB/100m (328.1ft.) @ 600MHz
- PS-NEXT (Minimum)
 - 13.9dB/100m (328.1ft.) @ 350MHz
 - 9.2dB/100m (328.1ft.) @ 600MHz
- Return Loss (Minimum)
 - 16.3dB/100m (328.1ft.) @ 350MHz
 - 14.7dB/100m (328.1ft.) @ 600MHz

Optional CAT 6/A Modular Plugs

These RJ45 connectors are designed to work specifically with CAT 6 and CAT 6A cable. These RJ45's are gold plated and work with solid and stranded cable. They have 8 pins and 8 conductors (8p8c). The inserts are also included—they're part of the design.



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