



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

Applications

- High-Performance Data Communications Cable
- Suitable For Category 6 Enhanced High Speed Data Applications
- 155 Mbps TP-PMD/CDDI
- Other High-Performance Applications
 - Outside Plant
 - Direct Burial

Compliance

- ISO/IEC 11801
- TIA/EIA-568-C.2 Category 6
- YD/T 1019 Category 6
- RoHS Compliance For The Requirement Of European Union Issued Directive 2002/95/EC

Physical Characteristics

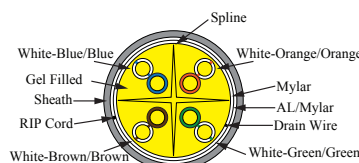
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: $1.12 \pm 0.04\text{mm}$
- Number Of Conductors: 8 Conductors
- Number Of Pairs: 4 Pairs
- Outer Jacket Rip Cord: Yes
- Outer Shield Material: AL Foil
- Drain Wire: Yes
- Outer Jacket Material: LDPE (Complies RoHS)
- Outer Jacket Diameter: $7.8\text{mm} \pm 0.4\text{mm}$
- Rip Cord: Yes

CAT 6 600MHz Outdoor Solid Direct Burial F/UTP Bulk Cable

CAT6



Technical Diagram



Available Jacket Colors

● Black Item# C6CMXFS-1864BK

Cable Features

- Meets Or Exceeds CAT 6 TIA568 C.2 Standards
- 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 Is Gel-Filled For Added Moisture Protection
- 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)
1.0	2.03	72.27	570.00	74.3	72.3	67.8	64.8	20.0
4.0	3.78	61.52	552.00	65.3	63.3	55.8	52.8	23.0
8.0	5.32	55.48	546.73	60.8	58.8	49.7	46.7	24.5
10.0	5.95	53.35	545.38	59.3	57.3	47.8	44.8	25.0
16.0	7.55	48.65	543.00	56.2	54.2	43.7	40.7	25.0
20.0	8.47	46.33	542.05	54.8	52.8	41.8	38.8	25.0
25.0	9.51	43.79	541.20	53.3	51.3	39.8	36.8	24.3
31.25	10.67	41.23	540.44	51.9	49.9	37.9	34.9	23.6
62.5	15.38	32.32	538.55	47.7	45.4	31.9	28.9	21.5
100	19.80	24.50	537.60	44.3	42.3	27.8	24.8	20.1
200	28.98	10.82	536.54	39.8	37.8	21.8	18.8	18.0
250	32.85	5.45	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

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CAT 6 600MHz Outdoor Solid Direct Burial 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: -30~+60
- Installation Temperature Range: -40~+60
- Operating Temperature Range: -40~+60
- Bulk Cable Weight: 48kg/km
- Max. Recommended Pulling Tension: 160N
- Min. Bend Radius/Minor Axis: 15 x D min.
- Min. Bend/Installation: 8 x D min.
- Test Object: Jacket
- Test Material: LDPE
- Before Tensile Strength: ≥ 10.0
 - Aging Elongation: $\geq 350\%$
 - Aging Condition: 100°C x 24 hrs x 10 Days
- After Tensile Strength: ≥ 8.0
 - Aging Elongation: $\geq 300\%$
 - Cold Bend: No Visible Cracks (-20°C \pm 2°C x 4h)

Jacket Printing

PRIMUS CABLE CAT6 F/UTP 4PR 23AWG SOLID
600MHZ DIRECT BURIAL (FLOODED) UV OUTDOOR
PE ANSI/TIA-568-C.2 ZONE A B C D E F / DEVICE 1 2
3 4 5 6 7 8 9 (VID:018) XXXXFT

Electrical Characteristics

- Unbalanced Pair-To-Ground Capacitance Max: ≤ 330 (pF/100m)
- Nominal Mutual Capacitance: 5.8 (nF/100m)
- 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: 100Ω \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 Modular Plugs

These RJ45 connectors are designed to work specifically with CAT 6, CAT 6A, and CAT 7 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.



CN1-022-8C6AS

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