



Our Category 6A Shielded (F/UTP) Outdoor Direct Burial Cable has four separated pairs of 23AWG solid bare copper conductors with a aluminum foil + Mylar shielding. This cable also has a extra water-blocking PVC jacket with a black Low Smoke Zero Hologen (LSZH) outer jacket. Cable is supplied on a 1000FT wooden spool and is ETL Listed. Our bulk cable is marked in descending order so you always know how much cable is left.(ETL Listed)

Applications

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

Compliance

- ISO/IEC 11801
- TIA/EIA-568-C.2
- ETL Listed
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

Physical Characteristics

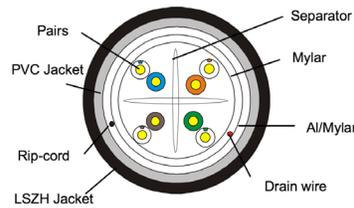
- Conductor Size/Material: 23AWG/Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: 1.12 ± 0.05mm
- Number of Conductors: 8 Conductors
- Outer Shield Material: AL Foil + Mylar
- Drain Wire: Yes
- Inner Jacket Material: Waterblocking PVC
- Outer Jacket Rip Cord: Yes
- Outer Jacket Material: LSZH (Complies RoHS)
- Outer Jacket Diameter: 8.7mm ± 0.5mm

CAT6A 750MHz Outdoor Direct Burial Solid Shielded (F/UTP) Bulk Cable

CAT6A



Technical Diagram



Available Jacket Colors

- Black Item# C6AXT-1505

Cable Features

- Tested to 750MHz.
- Meets or exceeds CAT6A 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.

CAT6A 750MHz 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	---	---	570.0	74.3	72.3	68.0	65.0	20.0
4	3.8	---	552.0	65.3	63.3	56.0	53.0	23.0
8	5.3	---	546.7	80.8	58.8	49.9	46.9	24.5
10	5.9	---	545.4	59.3	57.3	48.0	45.0	25.0
16	7.5	---	543.0	56.2	54.2	43.9	40.9	25.0
20	8.4	---	542.1	54.8	52.8	42.0	39.0	25.0
25	9.4	---	541.2	53.3	51.3	40.0	37.0	24.3
31.25	10.5	---	540.4	51.9	49.9	38.1	35.1	23.6
62.5	15.0	---	538.6	47.4	45.4	32.1	29.1	21.5
100	19.1	---	537.6	44.3	42.3	28.0	25.0	20.1
200	27.6	---	536.5	39.8	37.8	22.0	19.0	18.0
250	31.1	---	536.3	38.3	36.3	20.0	17.0	17.3
300	34.3	---	536.1	37.1	35.1	18.5	15.5	16.3
500	45.3	---	535.6	33.8	31.8	14.0	11.0	15.2
750	62.3	---	535.3	31.1	29.1	10.5	7.5	14.0

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CAT6A 750MHz Outdoor Direct Burial Solid Shielded (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 Length: 1000FT
- Max. Recommended Pulling Tension: 70N
- Min. Bend Radius/Minor Axis: 6 * Cable OD
- Min. Bend/Installation: 8 * Cable OD
- Test Object: Jacket
- Test Material: PVC
- Before Tensile Strength: ≥ 10.0
 - Aging Elongation: ≥ 125
 - Aging Condition: 100°C x 24hrs x 7Days
- After Tensile Strength: ≥ 8.0
 - Aging Elongation: ≥ 100
 - Cold Bend: No Visible Cracks (-20°C \pm 2°C x 4h)

Optional Networking Accessories

Shielded RJ45 Modular Plugs

Our CAT6A shielded RJ45's are gold plated & work with solid or stranded cable.

- CN1-021-8C6SH



CAT6A RJ45 Ratchet Crimping Tool

The right tool makes all the difference, and you can cut, strip and crimp with this one tool.

- TL1-4591



Electrical Characteristics

- Maximum Capacitance Unbalance-to-Ground: 330 (pf/100m)
- Nominal Velocity of Propagation: 68%
- Nominal Mutual Capacitance: 5.5nF/100m
- Maximum Delay: 536.1 @ 300MHz (ns/100m)
- Maximum Delay Skew: ≤ 45 (ns/100m)
- Maximum Conductor DC Resistance: 9.38 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 80V
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
 - 34.3dB/100m (328.1ft.) @ 300MHz
 - 62.3dB/100m (328.1ft.) @ 600MHz
- 1.0 - 250MHz Impedance: 100 Ω \pm 15
- 251 - 500MHz Impedance: 100 Ω \pm 22
- NEXT (Minimum)
 - 37.1dB/100m (328.1ft.) @ 300MHz
 - 31.1dB/100m (328.1ft.) @ 600MHz
- PS-NEXT (Minimum)
 - 35.1dB/100m (328.1ft.) @ 300MHz
 - 29.1dB/100m (328.1ft.) @ 600MHz
- Return Loss (Minimum)
 - 16.8dB/100m (328.1ft.) @ 300MHz
 - 14.0dB/100m (328.1ft.) @ 600MHz

Jacket Printing

PRIMUS CABLE CAT6A F/UTP 4PR 23AWG 10G DIRECT BURIAL (DRY) UV OUTDOOR LSZH ETL VERIFIED TO ANSI/TIA-568-C.2 ZONE A B C D E F / Device 1 2 3 4 5 6 7 8 9 (VID:018) #####FT

Sequential foot markers on jacket.

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