



Our Category 6A Shielded (F/UTP) Outdoor Direct Burial Cable has four separated pairs of 23 AWG solid bare copper conductors with a aluminum foil + Mylar shielding. This cable has a black LDPE outer jacket. Cable is supplied on a 1000 ft. 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

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

#### Compliance

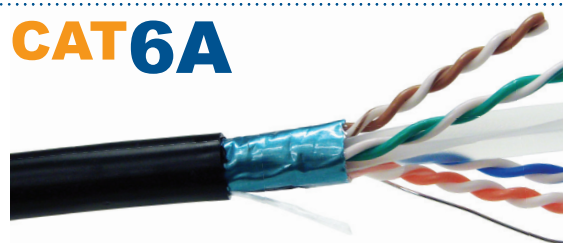
- ISO/IEC 11801
- TIA/EIA-568-C.2
- ETL Listed
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

#### Physical Characteristics

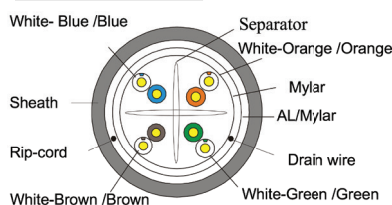
- Conductor Size/Material: 23 AWG/Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter:  $1.12 \pm 0.05$  mm
- Number of Conductors: 8 Conductors
- Outer Shield Material: AL Foil + Mylar
- Drain Wire: Yes
- Outer Jacket Rip Cord: Yes
- Outer Jacket Material: LDPE (Complies RoHS)
- Outer Jacket Diameter:  $7.5 \text{ mm} \pm 0.4 \text{ mm}$

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

# CAT6A



#### Technical Diagram



#### Available Jacket Colors

● Black Item# C6AXE-1507



#### Cable Features

- Tested to 750 MHz.
- 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 UV Rated Outdoor Direct Burial Cable has HDPE insulation and a LDPE outer jacket.
- AL foil shielding is used to eliminate interference in noisy environments.
- Longitudinal rip cord for easy jacket opening.

#### Cable Put-Ups:

- Cable is supplied in 1000 ft. 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: 1000 ft.
- Max. Recommended Pulling Tension: 70 N
- Min. Bend Radius/Minor Axis: 6 \* Cable OD
- Min. Bend/Installation: 8 \* Cable OD
- Test Object: Jacket
- Before Tensile Strength:  $\geq 10.0$ 
  - Aging Elongation:  $\geq 350$
  - Aging Condition: 100°C x 24 hrs x 10 Days
- After Tensile Strength:
  - Aging Elongation:  $\geq 300$
  - Cold Bend: No Visible Cracks (-20°C  $\pm$  2°C x 4 h)

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

### Jacket Printing

PRIMUS CABLE CAT6A F/UTP 4PR 23 AWG 10G DIRECT BURIAL (DRY) UV OUTDOOR PE 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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