



Category 5E Outdoor Direct Burial AL Foil Shielded F/UTP 24 AWG 4 Pair 8 Solid Bare Copper Conductors, Water Blocking Layer, 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
- ANSI/TIA-568.2-D
- ANSI/ICEA S-90-661 Category 5e
- NEMA WC63.1 Category 5e
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC
- 802.3af(PoE) and 802.3at (PoE+)

**Physical Characteristics**

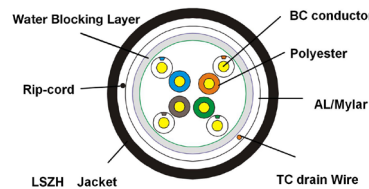
- Conductor Size: 24AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: 0.88 ± 0.03mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Jacket Rip Cord: Yes
- Outer Shield Material: AL Foil/Mylar
- Drain Wire: Tinned Copper 0.45mm
- Outer Jacket Material: LSZH (Meets IEC60332-1)
- Outer Jacket Diameter: 6.6mm ± 0.5mm

**CAT5E 350MHz Outdoor Solid Direct Burial F/UTP Bulk Cable**

**CAT5E**



**Technical Diagram**



**Available Jacket Colors**

- Pull Box Item# C5CMXT-107WH
- Pull Box Item# C5CMXT-416BK
- Spool Item# C5CMXT-2152BKWS

**Cable Features**

- Tested to 350MHz.
- Meets or Exceeds CAT5E ANSI/TIA-568.2-D 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.
- A Water Blocking Layer is Included for Added Moisture Protection.
- Longitudinal Rip Cord for Easy Jacket Opening.

**Cable Put-Ups:**

- Supplied in 1000ft Increments in a Pull Box and/or Wooden Spool.

**CAT5E 350MHz 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	2.0	N/A	570.00	65.3	62.3	63.8	60.8	20.0
4.0	4.1	N/A	552.00	56.3	53.3	51.8	48.8	23.0
8.0	5.8	N/A	546.73	51.8	48.8	45.7	42.7	24.5
10.0	6.5	N/A	545.38	50.3	47.3	43.8	40.8	25.0
16.0	8.2	N/A	543.00	47.2	44.4	39.7	36.7	25.0
20.0	9.3	N/A	542.05	45.8	42.8	37.8	34.8	25.0
25.0	10.4	N/A	541.20	44.3	41.3	35.8	32.8	24.3
31.25	11.7	N/A	540.44	42.9	39.9	33.9	30.9	23.6
62.5	17.0	N/A	538.55	38.4	35.4	27.9	24.9	21.5
100	22.0	N/A	537.60	35.3	32.3	23.8	20.8	20.1
155	28.1	N/A	536.90	32.4	29.4	20.0	17.0	18.0
200	32.4	N/A	536.50	30.8	27.8	17.8	14.8	17.4
300	41.8	N/A	536.10	29.3	26.3	14.3	11.3	16.5
350	44.9	N/A	535.90	27.1	24.1	12.9	9.9	16.0

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## CAT5E 350MHz 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°C
- Installation Temperature Range: -40~+60°C
- Operating Temperature Range: -40~+60°C
- Bulk Cable Weight: N/A / 1000FT
- Max. Recommended Pulling Tension: N/A
- Min. Bend Radius/Minor Axis: N/A
- Min. Bend/Installation: N/A
- Test Object: Jacket
- Test Material: PVC
- Before Tensile Strength:  $\geq 10.0$ 
  - Aging Elongation:  $\geq 125$
  - Aging Condition: 100°C x 24hrs x 10Days
- After Tensile Strength:  $\geq 8.0$ 
  - Aging Elongation:  $\geq 100$
  - Cold Bend: No Visible Cracks (-20°C  $\pm$  2°C x 4h)

### Electrical Characteristics

- Maximum Capacitance Unbalance to earth: 330 (pf/100m)
- Nominal Velocity of Propagation: 69%
- Maximum Delay: 537.60 @ 100MHz (ns/100m)
- Maximum Delay Skew:  $\leq 45$  (ns/100m)
- Maximum Conductor DC Resistance: 9.5 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V RMS
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
  - 22.0dB/100m (328.1ft.) @ 100MHz
  - 44.9dB/100m (328.1ft.) @ 350MHz
- 1.0 - 100MHz Impedance: 100 $\Omega$   $\pm$  15%
- NEXT (Minimum)
  - 35.3dB/100m (328.1ft.) @ 100MHz
  - 27.1dB/100m (328.1ft.) @ 350MHz
- PS-NEXT (Minimum)
  - 32.3dB/100m (328.1ft.) @ 100MHz
  - 24.1dB/100m (328.1ft.) @ 350MHz
- Return Loss (Minimum)
  - 20.1dB/100m (328.1ft.) @ 100MHz
  - 16.0dB/100m (328.1ft.) @ 350MHz

### Jacket Printing

PRIMUS CABLE CAT5E FTP 4PR 24AWG 350MHZ DIRECT BURIAL (DRY) UV OUTDOOR LSZH ANSI/TIA/EIA-568-C.2 ZONE A B C D E F / Device 1 2 3 4 5 6 7 8 9

Sequential foot markers on jacket.

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