



Category 5E Outdoor F/UTP 24 AWG 4 Pair 8 Solid Bare Copper Conductors, Black UV CMX PE Jacket with Messenger 1000FT (ETL)

Applications

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps and 622-Mbps ATM
- Other high-performance applications
 - Aerial Applications
 - Outdoor Applications
 - Antennas

Compliance

- ISO/IEC 11801
- TIA/EIA-568-C.2 Category 5E
- ANSI/ICEA S-90-661 Category 5E
- NEMA WC63.1 Category 5E
- ETL Verified
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

Physical Characteristics

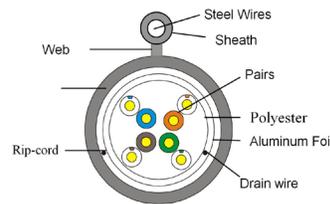
- Conductor Size: 24AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: 1.00 ± 0.3mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: Mylar+Aluminum/Mylar
- Messenger: 1.2mm Steel Wires
- Drain Wire: Yes
- Outer Jacket Material: CMX PE (RoHS Compliant)
- Outer Jacket Diameter: 6.5 / 2.6mm ± 0.4mm
- Outer Jacket Rip Cord: Yes

CAT 5E 350MHz Outdoor Solid Shielded Bulk Cable w/ Messenger

CAT5E



Technical Diagram



Available Jacket Colors

- Black Item# C5CMXSM-3203BK

Cable Features

- Rated up to 350MHz.
- Meets or exceeds CAT 5E 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 Cable has high density polyethylene insulation.
- Longitudinal rip cord for easy jacket opening.

Cable Put-Ups:

- Cable is supplied in 1000ft increments in a pull box or on a wooden spool.

CAT 5E 350MHz Outdoor 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

PrimusCable.com - (951) 824-1571





CAT 5E 350MHz Outdoor Solid Shielded Bulk Cable w/ Messenger

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: N/A
- Installation Temperature Range: N/A
- Operating Temperature Range: N/A
- 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: ≥ 10.0
 - Aging Elongation: ≥ 350
 - Aging Condition: $100^{\circ}\text{C} \times 24\text{hrs} \times 10\text{Days}$
- After Tensile Strength: ≥ 12.5
 - Aging Elongation: ≥ 300
 - Cold Bend: No Visible Cracks ($-20^{\circ}\text{C} \pm 2^{\circ}\text{C} \times 4\text{h}$)

Jacket Printing

PRIMUS CABLE CAT5E FTP 4 PR 24 AWG 350 MHZ
UV OUTDOOR PE ETL VERIFIED TO TIA/EIA – 568
– B . 2 ZONE A B C D E F / DEVICE 1 2 3 4 5 6 7 8 9
(VID : 018) 1000 FT

Sequential foot markers on jacket.

Electrical Characteristics

- Maximum Unbalanced to ground capacitance: 330 (pf/100m)
- Nominal Velocity of Propagation: N/A
- Maximum Delay: 537.60 @ 100MHz (ns/100m)
- Maximum Delay Skew: ≤ 45 (ns/100m)
- Maximum Conductor DC Resistance: 9.5 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: N/A
- 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

Optional Cat 5E Solid Shielded Modular Plugs

This Unshielded Cat 5E RJ45 modular plug was designed to work on Cat 5E solid cables. Our RJ45 connectors are both durable and reliable. These are 8 pin, 8 connector pins. The pins are bronze with gold plating, making them resistant to corrosion and wear, while exceeding the Cat 5E cable standards.



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