



Category 5E 350MHz UTP Unshielded 1000' 8 Conductor, Bulk, PVC Jacket, 24AWG Stranded-Bare Copper, Pull Box (ETL)

Applications

- Industrial Ethernet
- 10/100BASE-TX
- Factory Automation
- Process Industry applications
- Harsh Environment applications

Compliance

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

Physical Characteristics

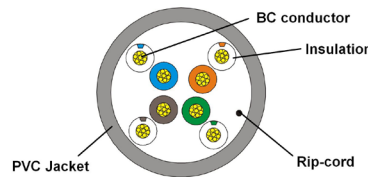
- Conductor Size: 24AWG
- Conductor Material: Stranded Bare Copper
- Insulation Material: High Density Polyethylene
- Insulation Diameter: 0.91 ± 0.04mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Drain Wire: N/A
- Outer Shield Material: N/A
- Outer Jacket Material: CM PVC (Complies RoHS)
- Outer Jacket Diameter: 5.3mm ± 0.4mm
- Outer Jacket Rip Cord: Yes

Cat 5E 350MHz Stranded Unshielded Bulk Cable

CAT5E



Technical Diagram



Available Jacket Colors

- Black Item# C5UST-405BK
- Blue Item# C5UST-406BL
- Gray Item# C5UST-408GY
- Green Item# C5UST-407GR
- Red Item# C5UST-410RD
- White Item# C5UST-411WH
- Yellow Item# C5UST-412YL
- Orange Item# C5UST-413OR
- Purple Item# C5UST-409PR

Cable Features

- 350MHz Rated.
- Meets or exceeds Cat 5E TIA-568-C.2 standards.
- Easy to use pull box with bigger payout.
- Cable is marked in descending order so you always know how much cable is in the box.
- Extra headroom provides room for growth.
- Low attenuation and power-sum crosstalk.

Construction Facts

- The PVC 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.

Cat 5E 350MHz Stranded Unshielded 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	3.00	N/A	570.00	65.3	62.3	63.8	60.8	20.0
4	6.15	N/A	552.00	56.3	53.3	51.8	48.8	23.0
8	8.70	N/A	546.73	51.8	48.8	45.7	42.7	24.5
10	9.75	N/A	545.38	50.3	47.3	43.8	40.8	25.0
16	12.3	N/A	543.00	47.2	44.4	39.7	36.7	25.0
20	13.95	N/A	542.05	45.8	42.8	37.8	34.8	25.0
25	15.60	N/A	541.20	44.3	41.3	35.8	32.8	24.3
31.25	17.55	N/A	540.44	42.9	39.9	33.9	30.9	23.6
62.50	25.50	N/A	538.55	38.4	35.4	27.9	24.9	21.5
100	33.00	N/A	537.60	35.3	32.3	23.8	20.8	20.1
155	42.15	N/A	536.90	32.4	29.4	20.0	17.0	18.0
200	48.60	N/A	536.50	30.8	27.8	17.8	14.8	17.4
300	62.70	N/A	536.10	29.3	26.3	14.3	11.3	16.5
350	67.35	N/A	534.90	27.1	24.1	12.9	9.9	16.0

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Cat 5E 350MHz Stranded Unshielded 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: -30~+60
- Operating Temperature Range: -30~+60
- Bulk Cable Weight: N/Albs. / 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: ≥ 13.5
 - Aging Elongation: ≥ 150
 - Aging Condition: 100°C x 24hrs x 7Days
- After Tensile Strength: ≥ 12.5
 - Aging Elongation: ≥ 125
 - Cold Bend: No Visible Cracks (-20°±2°x4h)

Jacket Printing

PRIMUS CABLE UTP 4PR 24AWG STRANDED
CAT5E 350MHZ C(ETL) US LISTED CM ETL VERI-
FIED TO TIA/EIA – 568 –B.2 (VID:018)

Sequential foot markers on jacket.

Electrical Characteristics

- Unbalanced to ground Capacitance Max: N/A
- Nominal Velocity of Propagation: N/A
- Maximum Delay: 537.60 @ 100MHz (ns/100m)
- Maximum Delay Skew: ≤ 45 (ns/100m)
- Maximum Conductor DC Resistance: 11.7 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V RMS
- Maximum DCR Unbalanced: N/A
- Attenuation (Maximum)
 - 33.00dB/100m (328.1ft.) @ 100MHz
 - 67.35dB/100m (328.1ft.) @ 350MHz
- 1.0 - 100MHz Impedance: 100Ω ± 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 Stranded Modular Plugs

This Unshielded Cat 5E RJ45 modular plug was designed to work on Cat 5E stranded 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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