



Category 5E FTP Shielded 1000' 8 Conductor, Bulk, PVC Jacket, 24AWG Solid-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 5)
- NEMA WC63.1 (Category 5)
- PVC: LDPE
- CM Rated
- ETL Verified
- RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

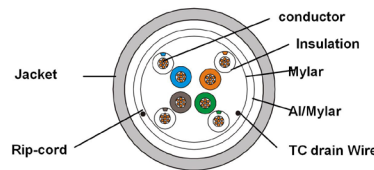
Physical Characteristics

- Conductor Size: 24AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene
- Insulation Diameter: 1.00 ± 0.03mm
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Drain Wire: Yes - Tin Copper - 0.45mm
- Outer Shield Material: Mylar + Aluminum Foil / Mylar
- Outer Jacket Material: CMR-UL PVC (Complies RoHS)
- Outer Jacket Diameter: 6.2mm ± 0.4mm
- Outer Jacket Rip Cord: Yes

CAT 5E 350MHz Solid Shielded Bulk Cable



Technical Diagram



Available Jacket Colors

- Black Item# C5SH-397BK
- Blue Item# C5SH-398BL
- Gray Item# C5SH-400GY
- Green Item# C5SH-399GR
- Red Item# C5SH-402RD
- White Item# C5SH-403WH
- Yellow Item# C5SH-404YL
- Orange Item# C5SH-3005OR

Cable Features

- Tested to 350MHz.
- Meets or exceeds CAT 5E T568C.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.
- AL Shielding is used to help eliminate any interference.
- Longitudinal rip cord for easy jacket opening.

Cable Put-Ups:

- Cable is supplied in 1000ft increments in a pull box.

CAT 5E 350MHz Solid Shielded 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	2.00	N/A	570.00	65.3	62.3	63.8	60.8	20.0
4	4.1	N/A	552.00	56.3	53.3	51.8	48.8	23.0
8	5.8	N/A	546.73	51.8	48.8	45.7	42.7	24.5
10	6.5	N/A	545.38	50.3	47.3	43.8	40.8	25.0
16	8.2	N/A	543.00	47.2	44.4	39.7	36.7	25.0
20	9.3	N/A	542.05	45.8	42.8	37.8	34.8	25.0
25	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
62.50	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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CAT 5E 350MHz Solid Shielded 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/A/lbs. / 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)

Electrical Characteristics

- Unbalanced to ground Capacitance Max: 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: 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: 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

Jacket Printing

Primus Cable CAT5E FTP 4PR 24AWG 350MHZ CMR ETL VERIFIED
TO ANSI/TIA-568-C2-1 ZONE A B C D E F / DEVICE 1 2 3 4 5 6 7 8 9
(VID:018) XXXXFT

Sequential foot markers on jacket.

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