



Category 5E FTP Shielded 1000' 8 Conductor, Bulk Cable, Plenum CMP, PVC Jacket, 24AWG Solid-Bare Copper, Pull Box (UL/ETL). Our bulk cable is marked in descending order so you always know how much cable is left.

**Applications**

- Suitable For 350MHz High Speed Data Applications
- 155Mbps TP-PMD/CDDI
- Other High-Performance Applications
  - Data Communications
  - Indoor

**Compliance**

- TIA/EIA-568 C.2-10 Category 5E
- CMP Plenum Rated
- ETL Listed
- RoHS Compliance For The Requirement Of European Union Issued Directive 2002/95/EC

**Physical Characteristics**

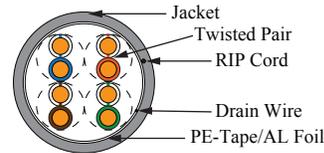
- Conductor Size: 24AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: FEP
- Insulation Diameter: 0.91 ± 0.01mm
- Number Of Conductors: 8 Conductors
- Number Of Pairs: 4 Pairs
- Outer Shield Material: Aluminum Foil
- Drain Wire: Yes
- Outer Jacket Material: Low Smoke FR-PVC
- Outer Jacket Diameter: 5.70 ± 0.20mm
- Outer Jacket Rip Cord: Yes

## CAT5E 350MHz Solid FTP Shielded Bulk Cable

# CAT5E



**Technical Diagram**



**Available Jacket Colors**

- Black Item# C5PSH-2051BK
- Blue Item# C5PSH-2052BL
- Green Item# C5PSH-2053GR
- Gray Item# C5PSH-2054GY
- Red Item# C5PSH-2056RD
- White Item# C5PSH-2057WH
- Yellow Item# C5PSH-2058YL

**Cable Features**

- Tested Up To 350MHz
- Meets Or Exceeds CAT5E T568C.2-10 Standards
- Extra Headroom Provides Room For Growth
- Low Attenuation And Power-Sum Crosstalk

**Construction Facts**

- The Plenum Cable Has FEP Insulation And Features A Compound Jacket That's For Low Temperature Handling
- Aluminum 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.

**CAT5E 350MHz 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	2.0	63.3	N/A	65.3	62.3	63.8	60.8	20.0
4	4.1	52.2	N/A	56.3	53.3	51.7	48.7	23.0
8	5.8	46.0	N/A	51.8	48.8	45.7	42.7	24.5
10	6.5	43.8	N/A	50.3	47.3	43.8	40.8	25.0
16	8.2	39.0	N/A	47.3	44.3	39.7	36.7	25.0
20	9.3	36.5	N/A	45.8	42.8	37.7	34.7	25.0
25	10.4	33.9	N/A	44.3	41.3	35.8	32.8	24.3
31.25	11.7	31.2	N/A	42.9	39.9	33.9	30.9	23.6
62.50	17.0	21.4	N/A	38.4	35.4	27.8	24.8	21.5
100	22.0	13.3	N/A	35.3	32.3	23.8	20.8	20.1
200	32.4	N/A	N/A	30.8	27.8	17.7	14.7	18.0
350	44.9	N/A	N/A	27.2	24.2	12.9	9.9	16.3

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## CAT5E 350MHz Solid FTP 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: 32.5lbs. / 1000FT
- Max. Recommended Pulling Tension: 100N
- Min. Bend Radius/Minor Axis: 22mm
- Min. Bend/Installation: 45mm
- Test Object: Jacket
- Test Material: PVC
- Before Tensile Strength:  $\geq 13.8$ 
  - Aging Elongation:  $\geq 100\%$
  - Aging Condition:  $100^{\circ}\text{C} \times 168\text{hrs}$
- After Tensile Strength:  $\geq 75\%$  Of Unaged
  - Aging Elongation:  $\geq 75\%$  Of Unaged
  - Cold Bend: No Visible Cracks ( $-20^{\circ}\text{C} \pm 2^{\circ}\text{C} \times 4\text{h}$ )

### Optional Shielded RJ45 Plugs

Our Shielded Cat5E RJ45 Plugs are made with high standards, keeping our customer and their network in mind. These shielded RJ45's work with solid and stranded cable with 8 pins (gold plated) and 8 conductors.



CN1-011-8C5SH

### RJ11, RJ12 & RJ45 Ratchet Crimping Tool

The right tool makes all the difference, and you can cut, strip and crimp with this one tool.



TL1-115

### Electrical Characteristics

- Pair-to-Ground Capacitance Unbalance:  $\leq 330$  (pF/100m)
- Nominal Mutual Capacitance: 46 (pF/m)
- Nominal Velocity of Propagation: 72%
- Maximum Delay: N/A
- Maximum Delay Skew:  $\leq 45$  (ns/100m)
- Maximum Propagation Delay:  $534 + 36$  (ns/100m)
- Maximum Conductor DC Resistance:  $95(\Omega/\text{km}) @ 20^{\circ}\text{C}$
- Maximum Operating Voltage - UL: N/A
- Maximum DCR Unbalanced:  $\leq 5\%$
- Attenuation (Maximum)
  - 22.0dB/100m (328.1ft.) @ 100MHz
  - 44.9dB/100m (328.1ft.) @ 350MHz
- 1.0 - 100.0MHz Impedance:  $100\Omega \pm 15\%$
- 100.0 - 350.0MHz Impedance:  $100\Omega \pm 20\%$
- NEXT (Minimum)
  - 35.3dB/100m (328.1ft.) @ 100MHz
  - 27.2dB/100m (328.1ft.) @ 350MHz
- PS-NEXT (Minimum)
  - 32.3dB/100m (328.1ft.) @ 100MHz
  - 24.2dB/100m (328.1ft.) @ 350MHz
- Return Loss (Minimum)
  - 20.1dB/100m (328.1ft.) @ 100MHz
  - 16.3dB/100m (328.1ft.) @ 350MHz

### Jacket Printing

N/A

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