



**Category 5E FTP Shielded 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

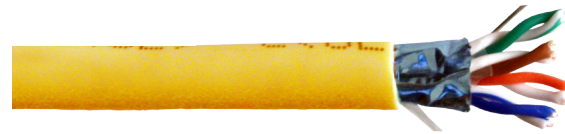
**Compliance**

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

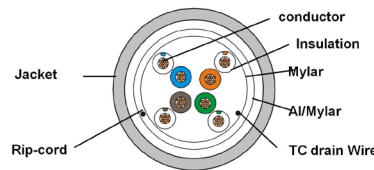
**Physical Characteristics**

- Conductor Size: 24AWG
- Conductor Material: Stranded Bare Copper
- Insulation Material: High Density Polyethylene
- Insulation Diameter: 0.95 ± 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: CM PVC (Complies RoHS)
- Outer Jacket Diameter: 6.0mm ± 0.4mm
- Outer Jacket Rip Cord: Yes

**Cat 5E 350MHz Stranded Shielded Bulk Cable**



**Technical Diagram**



**Available Jacket Colors**

- Black Item# C5SHST-2449BK
- Blue Item# C5SHST-3639BL
- Gray Item# C5SHST-2166GY
- Green Item# C5SHST-4526GR
- Red Item# C5SHST-3641RD

**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 Stranded 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	3.00	N/A	570.00	65.30	62.3	63.80	60.80	20.0
4	6.15	N/A	552.00	56.30	53.3	51.80	48.80	23.0
8	8.70	N/A	546.73	51.80	48.8	45.70	42.70	24.5
10	9.75	N/A	545.38	50.30	47.3	43.80	40.80	25.0
16	12.30	N/A	543.00	47.20	44.4	39.70	36.70	25.0
20	13.95	N/A	542.05	45.80	42.8	37.80	34.80	25.0
25	15.60	N/A	541.20	44.30	41.3	35.80	32.80	24.3
31.25	17.55	N/A	540.44	42.90	39.9	33.90	30.90	23.6
62.50	25.50	N/A	538.55	38.40	35.4	27.90	24.90	21.5
100	33.00	N/A	537.60	35.30	32.3	23.80	20.80	20.1
155	42.15	N/A	536.90	32.40	29.4	20.00	17.00	18.0
200	48.60	N/A	536.50	30.80	27.8	17.80	14.80	17.4
300	62.70	N/A	536.10	29.30	26.3	14.30	11.30	16.5
350	67.35	N/A	535.90	27.10	24.1	12.90	9.90	16.0

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## Cat 5E 350MHz Stranded 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: N/A
- Installation Temperature Range: N/A
- Operating Temperature Range: N/A
- 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:  $\geq 13.5$ 
  - Aging Elongation:  $\geq 150$
  - Aging Condition: 100°C x 24hrs x 7Days
- After Tensile Strength:  $\geq 12.5$ 
  - Aging Elongation:  $\geq 125$
  - Cold Bend: No Visible Cracks (-20°±2°x4h)

### Optional Cat 5E Shielded Modular Plugs

This shielded Cat 5E RJ45 modular plugs will work on both stranded and solid cables. The pins are made of bronze with gold plating, and exceed Cat 5E Standards. These shielded RJ45's work with solid and stranded cable with 8 pins (gold plated) and 8 conductors.



CN1-011-8C5SH

### 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:  $\leq 45$  (ns/100m)
- Maximum Conductor DC Resistance: 11.7 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V RMS
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
  - 33.00dB/100m (328.1ft.) @ 100MHz
  - 61.35dB/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

### Jacket Printing

PRIMUS CABLE STP 4PR 24AWG STRANDED CAT5E 350MHZ CM  
ETL VERIFIED TO TIA/EIA – 568B.2 (VID:018) XXXXFT

Sequential foot markers on jacket.

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