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CABLES

an INFINIT® brand

Cat5e Shielded Solid Plenum Cable

Part No: 85-500-235 xx

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

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

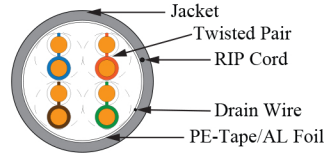
Mechanical Characteristics

- 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: ≥13.8
 - Aging Elongation: ≥100%
 - Aging Condition: 100°C x 168hrs
- After Tensile Strength: ≥75% Of Unaged
 - Aging Elongation: ≥75% Of Unaged
 - Cold Bend: No Visible Cracks (-20°C ± 2°C x 4h)

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.

Electrical Characteristics

- Pair-to-Ground Capacitance Unbalance: ≤330 (pF/100m)
- Nominal Mutual Capacitance: 46 (pF/m)
- Nominal Velocity of Propagation: 72%
- Maximum Delay: N/A
- Maximum Delay Skew: ≤ 45 (ns/100m)
- Maximum Propagation Delay: 534 + 36 (ns/100m)
- Maximum Conductor DC Resistance: 95(Ω/km) @ 20°C
- Maximum Operating Voltage - UL: N/A
- Maximum DCR Unbalanced: ≤5%
- Attenuation (Maximum)
 - 22.0dB/100m (328.1ft.) @ 100MHz
 - 44.9dB/100m (328.1ft.) @ 350MHz
- 1.0 - 100.0MHz Impedance: 100Ω ± 15%
- 100.0 - 350.0MHz Impedance: 100Ω ± 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

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