



**Category 5E Indoor/UV-Outdoor F/UTP 24 AWG
4 Pair 8 Solid Bare Copper Conductors, AL Foil
Shielded, Black UV Resistant CMR/CMX PVC Jacket
1000FT (ETL).**

Applications

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps and 622-Mbps ATM
- Other high-performance applications
 - Aerial Applications
 - Outdoor Applications
 - Antennas

Compliance

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

Physical Characteristics

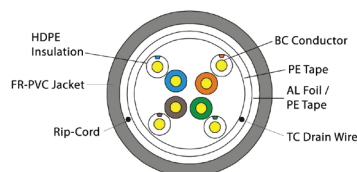
- Conductor Size: 24AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: High Density Polyethylene (HDPE)
- Insulation Diameter: $0.96 \pm 0.03\text{mm}$
- Number of Conductors: 8 Conductors
- Number of Pairs: 4 Pairs
- Outer Shield Material: Aluminum Foil
- Drain Wire: Yes, Tinned Copper
- Outer Jacket Material: FR-PVC (UV)
- Outer Jacket Diameter: $5.70\text{mm} \pm 0.3\text{mm}$
- Outer Jacket Rip Cord: Yes

CAT5E 350MHz Indoor/Outdoor UV Resistant Solid F/UTP Bulk Cable

CAT5E



Technical Diagram



Available Jacket Colors

- Black Item# C5CMXR-1081BK

Cable Features

- Tested to 350MHz.
- Meets or exceeds CAT5E TIA568C.2 standards.
- Cable is marked in descending order so you always know how much cable is left.
- Extra headroom provides room for growth.
- Low attenuation and power-sum crosstalk.

Construction Facts

- This Indoor/Outdoor 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 or on a wooden spool.

CAT5E 350MHz Indoor/Outdoor 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)
0.772	1.8	65.2	N/A	67.0	64.0	66.0	63.0	19.4
1.0	2.0	63.3	N/A	65.3	62.3	63.8	60.8	20.0
4.0	4.1	52.2	N/A	56.3	53.3	51.7	48.7	23.0
8.0	5.8	46.0	N/A	51.8	48.8	45.7	42.7	24.5
10.0	6.5	43.8	N/A	50.3	47.3	43.8	40.8	25.0
16.0	8.2	39.0	N/A	47.3	44.3	39.7	36.7	25.0
20.0	9.3	36.5	N/A	45.8	42.8	37.7	34.7	25.0
25.0	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
62.5	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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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CAT5E 350MHz Indoor/Outdoor UV Resistant Solid F/UTP 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: -20~+60°C
- Installation Temperature Range: -20~+60°C
- Operating Temperature Range: 0~+50°C
- Bulk Cable Weight: N/A / 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 24hrs x 7Days
- After Tensile Strength: $\geq 75\%$ of unaged
 - Aging Elongation: $\geq 75\%$ of unaged
 - Cold Bend: No Visible Cracks (-20°C \pm 2°C x 4h)

Electrical Characteristics

- Nom. Mutual Capacitance: 46pF/m
- Nominal Velocity of Propagation: 72%
- Maximum Propagation Delay: 534+36 (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: $100\Omega \pm 15\%$
- 100.0 - 350MHz 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

PRIMUS CABLE CAT5E F/UTP 4PR 24AWG 350MHz CMR/CMX-
OUTDOOR SUNLIGHT RESISTANT 4009521 cETLus LISTED VERI-
FIED TO ANSI/TIA – 568-C.2 (VID:011) 1000/0000FT

Sequential foot markers on jacket.

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