

CAT6A OUTDOOR CABLE

CMX / UV-RESISTANT

23 AWG 8 CONDUCTOR (UNSHIELDED)



VERTICAL CABLE
Simply Connect.

DESCRIPTION

550 MHz CAT6A, Outdoor UV resistant jacket, CMX / 10 Gigabit / Unshielded, 4 Twisted Pairs (UTP) 8 23-AWG Solid Bare Copper Conductors.

FEATURES

- Supports 10/100/1000BASE-T applications
- Ideal for 10G Networks up to 100 meters
- Fast Ethernet and 155Mbps TP-PMD/CDDI
- Outdoor UV-resistant jacket
- 550 MHz bandwidth supporting wide range of applications
- 23 AWG Solid Copper Conductors
- Easily identifiable pair insulation colors
- Exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 specifications
- CAN/CSA-C22.2 No. 214, RoHS compliant
- ETL listed



069-564/A/CMX

TRANSMISSION PERFORMANCE

Meets or exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 specifications

CONSTRUCTION

Pairs: 4
 Conductors: 8
 Rip Cord: Nylon
 Separator Material: Linear Polyethylene (LPE)
 Screen: Unscreened (UTP)

CONDUCTORS

Material: Solid Bare Annealed Copper
 Size: 23 AWG

INSULATION

Diameter: 0.0397 in. (1.01 mm)
 Average thickness: 0.0118 in. (0.30 mm)
 Color coding: **Pair 1:** White-Blue/Blue **Pair 2:** White-Orange/Orange
Pair 3: White-Green/Green **Pair 4:** White-Brown/Brown

JACKET

Material: Linear Low Density Polyethylene (LLDPE)
 Outdoor rating: UV-resistant
 Outer diameter: 0.30 in. (7.60 mm)
 Average thickness: 0.0236 in. (0.60 mm)
 Min. point thickness: 0.0212 in. (0.54 mm)
 Marking: VERTICAL 4001453 cETLus VERIFIED CMX UTP 4PR
 23AWG OUTDOOR UV LLDPE 10GS AUGMENTED CAT6A
 ANSI/TIA-568.2-D RoHS XXXXFT

ELECTRICAL

Voltage rating: 60 V_{RMS}

MECHANICAL

Before Tensile Strength (Mpa): ≥10.6 MPa
 Elongation After Aging (%): ≥300
 Aging Conditions (°C × h): 100x168
 Tensile Strength After Aging (Mpa): ≥85% of unaged
 Elongation After Aging (%): ≥50% of unaged
 Cold Bend (-40±2°C x4hrs): No Crack

SAFETY

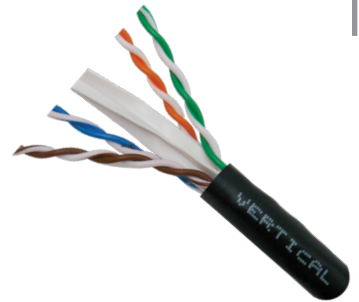
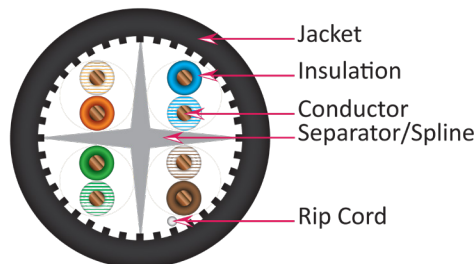
FPA 70 (NEC®) fire rating: CMX

ENVIRONMENTAL

Operating temperature: -40 °F–167 °F (-40 °C–75 °C)

WEIGHT

55 lb (25 kg)



VERTICAL CABLE

951.696.7772 California
 800.749.2447 Florida
 845.391.8318 New York
 713.322.7242 Texas



verticalcable.com

Rev. 03/2025

Subject to change without notice.

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PERFORMANCE

ELECTRICAL CHARACTERISTICS

| | |
|--|--------|
| 1.0-350MHz Impedance (Ohms) | 100±15 |
| 1.0-350MHz Delay Skew (ns/100m) | <=45 |
| Pair-to-Ground Capacitance Unbalance (pF/100m) | <=330 |
| Max. Conductor DC Resistance 20°C (ohms/km) | 68.5 |
| Resistance Unbalance (%) | <=5 |

| Frequency (Mhz) | Return Loss (Min db) | Attenuation Max (db/100mm) | Next Min (dB) | PSNext Min (dB) | ELFEXT Min (dB/100mm) | ELFEXT Min (dB/100mm) |
|-----------------|----------------------|----------------------------|---------------|-----------------|-----------------------|-----------------------|
| 1 | 20.0 | 2.1 | 74.3 | 72.3 | 71.8 | 68.8 |
| 4 | 23.0 | 3.8 | 65.3 | 63.3 | 59.8 | 56.8 |
| 8 | 24.5 | 5.3 | 60.8 | 58.8 | 53.7 | 50.7 |
| 10 | 25.0 | 5.9 | 59.3 | 57.3 | 51.8 | 48.8 |
| 16 | 25.0 | 7.5 | 56.2 | 54.2 | 47.7 | 44.7 |
| 20 | 25.0 | 8.4 | 54.8 | 52.8 | 45.8 | 42.8 |
| 25 | 24.3 | 9.4 | 53.3 | 51.3 | 43.8 | 40.8 |
| 31.25 | 23.6 | 10.5 | 51.9 | 49.9 | 41.9 | 38.9 |
| 62.5 | 21.5 | 15.0 | 47.4 | 45.4 | 35.9 | 32.9 |
| 100 | 20.1 | 19.1 | 44.3 | 42.3 | 31.8 | 28.8 |
| 200 | 18.0 | 27.6 | 39.8 | 37.8 | 25.8 | 22.8 |
| 250 | 17.3 | 31.1 | 38.3 | 36.3 | 23.9 | 20.9 |
| 300 | 16.8 | 34.3 | 37.1 | 35.1 | 22.3 | 19.3 |
| 400 | 15.9 | 40.1 | 35.3 | 33.3 | 19.8 | 16.8 |
| 500 | 15.2 | 45.3 | 33.8 | 31.8 | 17.8 | 14.8 |

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