

CAT6 DIRECT BURIAL CABLE CMX / UV-RESISTANT 23 AWG 8 CONDUCTOR (UNSHIELDED)



VERTICAL CABLE
Simply Connect.

DESCRIPTION

550 MHz CAT6, Outdoor UV resistant jacket,
Direct Burial / CMX / Unshielded, 4 Twisted Pairs
(UTP) 8 23-AWG Solid Bare Copper Conductors.

FEATURES

- Supports 10/100/1000BASE-T applications
- Fast Ethernet and 155Mbps TP-PMD/CDDI
- Outdoor UV-resistant
- Direct Burial
- 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



069-559/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: Polyvinyl Chloride (PVC)
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: 0.24 in. (6.10 mm)
Average thickness: 0.0236 in. (0.60 mm)
Min. point thickness: 0.0212 in. (0.54 mm)
Marking: VERTICAL 4001453 cETLus VERIFIED UTP 4PR
23AWG OUTDOOR DIRECT BURIAL UV LLDPE CAT6
550MHz CMX 75C ANSI/TIA-568.2-D RoHS XXXXFT

ELECTRICAL

Voltage rating: 60 V_{RMS}

MECHANICAL

Before Tensile Strength (Mpa): ≥13.8 MPa
Elongation After Aging (%): ≥100
Aging Conditions (°C × h): 100x168
Tensile Strength After Aging (Mpa): ≥85% of unaged
Elongation After Aging (%): ≥50% of unaged
Cold Bend (-40±2° Cx4hrs): No Crack

SAFETY

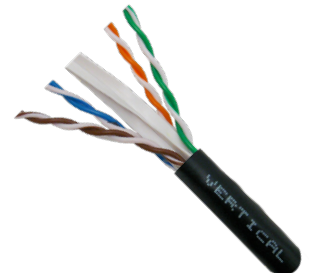
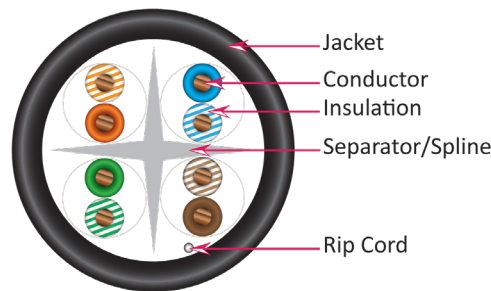
FPA 70 (NEC®) fire rating: CMX

ENVIRONMENTAL

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

WEIGHT

29.1 lb (13.2 kg)



VERTICAL CABLE

951.696.7772 California
800.749.2447 Florida
845.391.8318 New York
713.322.7242 Texas



verticalcable.com

Rev. 01/2025

Subject to change without notice.

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CMX / UV-RESISTANT

23 AWG 8 CONDUCTOR (UNSHIELDED)

PERFORMANCE

ELECTRICAL CHARACTERISTICS

Characteristics Impedance
 Conductor Resistance
 Mutual Capacitance
 Dielectric Strength
 Spark Test
 DC Resistance Unbalance
 Delay Skew

1~600 MHz 100±15 Ohms
 93.8 Ohm/Km/20°C Max
 56 pF/M Max
 AC 1.5 KV/Min
 2.5 KV
 5% Max
 1~600 MHz 25nS/100m Max

Frequency (Mhz)	Return Loss (Min db)	Attenuation Max (dB/100m)	Next Min (dB)	PSNext Min (dB)	ELFEXT Min (db/100m)	ACR Min (dB)
1	20.0	2.0	76.3	74.3	67.8	74.3
4	23.0	3.8	67.3	65.3	55.7	63.5
8	24.5	5.3	62.8	60.8	49.7	57.5
10	25.0	6.0	61.3	59.3	47.8	55.3
16	25.0	7.6	58.3	56.3	43.7	50.7
20	25.0	8.5	56.8	54.8	41.7	48.3
25	24.3	9.5	55.3	53.3	39.8	45.8
31.25	23.6	10.7	53.9	51.9	37.9	43.2
62.5	21.5	15.4	49.4	47.4	31.8	34.0
100	20.1	19.8	46.3	44.3	27.8	26.5
155	18.8	25.1	43.5	41.5	23.9	18.4
200	18.0	29.0	41.8	39.8	21.7	12.8
250	17.3	32.8	40.3	38.3	19.8	7.5
300	16.8	36.4	39.2	37.2	18.2	2.8
400	15.9	43.0	37.3	35.3	15.7	NA
500	15.5	47.2	35.4	33.6	13.4	NA
600	14.4	50.3	32.8	32.1	12.6	NA

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