

CAT6 DIRECT BURIAL CABLE

CMX / WATERPROOF / UV-RESISTANT

23 AWG 8 CONDUCTOR (F/UTP)



VERTICAL CABLE
Simply Connect.

DESCRIPTION

550 MHz CAT6, Waterproof Outdoor Dual Jacket, Direct Burial / CMX / Overall Shield, 4 Twisted Pairs (F/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 / Waterproof jacket
- Direct Burial / Dual 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



069-561/CMXT

TRANSMISSION PERFORMANCE

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

CONSTRUCTION

Pairs: 4
 Conductors: 8
 Rip Cord: Nylon
 Drain Wire (Tinned Copper): 0.016 in. (0.40 mm)
 Separator Material: High Density Polyethylene (HDPE)
 Screen: Foiled (F/UTP)

CONDUCTORS

Material: Solid Bare Annealed Copper
 Size: 23 AWG

INSULATION

Diameter: 0.0440 in. (1.12 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

INNER JACKET (GRAY)

Material: Polyvinyl Chloride (PVC)
 Outer diameter: 0.28 in. (7.30 mm)
 Average thickness: 0.0196 in. (0.50 mm)

OUTER JACKET (BLACK)

Material: Linear Low Density Polyethylene (LLDPE)
 Outdoor rating: UV-resistant
 Outer diameter: 0.36 in. (9.20 mm)
 Average thickness: 0.0255 in. (0.65 mm)
 Marking: VERTICAL 4001453 cETLus VERIFIED F/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): ≥14.8 MPa
 Elongation After Aging (%): ≥100
 Aging Conditions (°C × h): 100x240
 Tensile Strength After Aging (Mpa): ≥85% of unaged
 Elongation After Aging (%): ≥50% of unaged
 Cold Bend (-40±2° Cx4hrs): No Crack
 Maximum Pulling Force: 100 N
 Minimum Bending Radius: 8XOD

SAFETY

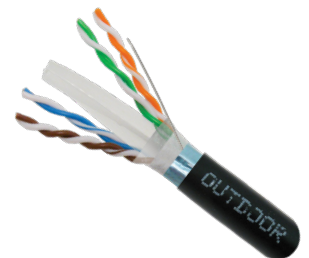
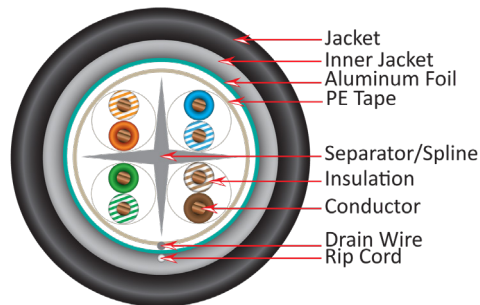
FPA 70 (NEC®) fire rating: CMX

ENVIRONMENTAL

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

WEIGHT

50.3 lb (22.8 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

Characteristics Impedance
 Delay Skew
 Pair to Ground Capacitance
 Max. conductor DC Resistance
 Resistance Unbalance

100±15 Ohms
 <=45 (nS/100m)
 <=330 (Pf/100m) Unbalance
 93.8 (ohms/km) 20°C
 5% 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
550	14.4	50.3	32.8	32.1	12.6	NA

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