

CAT6 OUTDOOR CABLE

CMX / UV-RESISTANT

23 AWG 8 CONDUCTOR (UNSHIELDED)



DESCRIPTION

550 MHz CAT6, Outdoor UV resistant jacket,
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
- 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 UV LLDPE CAT6 550MHz CMX 75C ANSI/TIA-568.2-D RoHS XXXXFT

ELECTRICAL

Voltage rating:	60 V _{RMS}
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MECHANICAL

Before Tensile Strength (Mpa):	≥13.8 MPa
Elongation After Aging (%):	≥100
Aging Conditions (°C × h):	100×168
Tensile Strength After Aging (Mpa):	≥85% of unaged
Elongation After Aging (%):	≥50% of unaged
Cold Bend (-40±2° C×4hrs):	No Crack

SAFETY

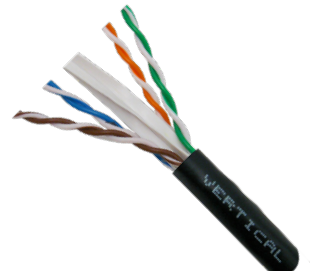
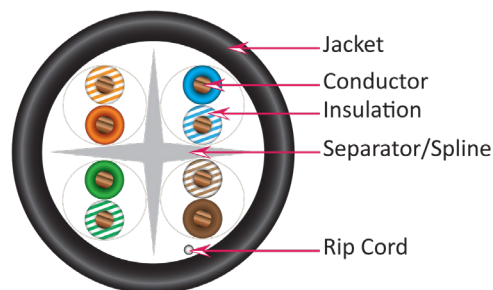
FPA 70 (NEC®) fire rating:	CMX
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ENVIRONMENTAL

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

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Subject to change without notice.

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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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