

CAT6 OUTDOOR AERIAL CABLE CMX / WATERPROOF / MESSENGER 23 AWG 8 CONDUCTOR (F/UTP)



VERTICAL CABLE
Simply Connect.

DESCRIPTION

550 MHz CAT6, Outdoor Aerial Overall Shield,
Direct Burial / CMX / Messenger, 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 / Aerial Applications
- Galvanized Steel Messenger
- 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



069-563/S/MESG

TRANSMISSION PERFORMANCE

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

CONSTRUCTION

Pairs:	4
Conductors:	8
Rip Cord:	2
PE Tape:	2
Drain Wire (Tinned Copper):	0.016 in. (0.40 mm)
Separator Material:	Linear Low Density Polyethylene (LLDPE)
Screen:	Foiled (F/UTP)
Messenger Diameter:	0.05 in. (1.30 mm)

CONDUCTORS

Material:	Solid Bare Annealed Copper
Size:	23 AWG

INSULATION

Diameter:	0.0401 in. (1.02 mm)
Average thickness:	0.0088 in. (0.22 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:	0.31 in. x 0.10 in. (7.80 mm x 2.60 mm)
Average thickness:	0.03 in. x 0.025 in. (0.80 mm x 0.65 mm)
Marking:	VERTICAL 4001453 cETLus VERIFIED CMX STP 4PR 23AWG OUTDOOR UV WITH MESSENGER CAT6 550MHz ANSI/TIA-568.2-D RoHS XXXXFT

ELECTRICAL

Voltage rating:	60 V _{RMS}
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MECHANICAL

Before Tensile Strength (Mpa):	≥10.6 MPa
Elongation After Aging (%):	≥300
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

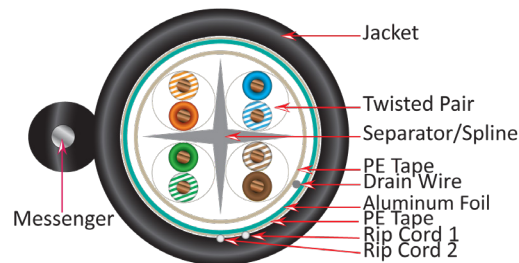
FPA 70 (NEC®) fire rating:	CMX
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ENVIRONMENTAL

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

52 lb (23.6 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.

CAT6 OUTDOOR AERIAL CABLE

CMX / WATERPROOF / MESSENGER

23 AWG 8 CONDUCTOR (F/UTP)

PERFORMANCE

ELECTRICAL CHARACTERISTICS

1.0-250MHz Impedance (Ohms)	100±15
1.0-250.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	72.2
Resistance Unbalance (%)	<=5

Frequency (Mhz)	Return Loss (Min db)	Attenuation Max	Next Min (dB)	PSNext Min (dB)	ELFEXT Min (db/100m)	Delay Max (ns/100m)
1	20.0	2.0	74.3	72.3	70.0	570.0
4	23.0	3.8	65.3	63.3	67.8	552.0
8	24.5	5.3	60.8	58.8	55.8	546.0
10	25.0	6.0	59.3	57.3	49.7	545.0
16	25.0	7.6	56.2	54.2	47.8	543.0
20	25.0	8.5	54.8	52.8	43.7	542.0
25	24.3	9.5	53.3	51.3	41.8	541.0
31.25	23.6	10.7	51.9	49.9	39.8	540.0
62.5	21.5	15.4	47.4	45.4	37.9	538.0
100	20.1	19.8	44.3	42.3	31.9	537.0
200	18.0	29.0	39.8	37.8	21.8	536.0
250	17.3	32.8	38.3	36.3	19.8	536.0
300	16.8	36.4	39.2	37.2	18.2	535.0
400	15.9	43	37.3	35.3	15.7	534.0

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