



VERTICAL CABLE

CAT6 OUTDOOR CABLE

CMX | WATER-RESISTANT | MESSENGER
23 AWG 8 CONDUCTOR (F/UTP)

069-563/S/MESG

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- and UV-Resistant Jacket Material
- 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
- ETL Listed, RoHS Compliant
- 1000 ft Wooden Spool
- Weight: 52 lb (23.6 kg)



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 0.02 in. (0.51 mm)
Separator Material:	Linear Low Density Polyethylene (LLDPE)
Screen:	Foiled (F/UTP)
Messenger Diameter:	0.05 in. (1.30 mm)

CONDUCTORS

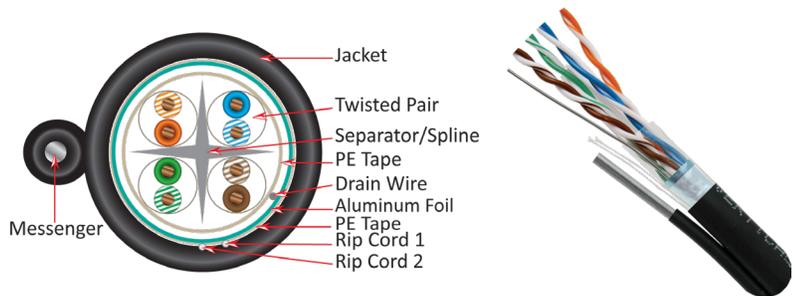
Material:	Solid Bare Annealed Copper
Size:	23 AWG

INSULATION

Diameter:	0.04 in (1.02 mm)
Average Thickness:	0.009 in. (0.22 mm)
Color Coding:	Pair 1: Blue/White-Blue Pair 2: Orange/White-Orange Pair 3: Green/White-Green Pair 4: Brown/White-Brown

JACKET

Material:	Linear Low Density Polyethylene (LLDPE)
Outer Rating:	UV-Resistant
Outdoor 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



Florida (HQ)
800-749-2447

California
951-696-7772

New York
845-391-8318

Texas
713-322-7242

verticalcable.com

This specification sheet is subject to change without notice.



RoHS



Intertek

Rev. 02/2026

ELECTRICAL CHARACTERISTICS

Voltage Rating:	60 V _{RMS}
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

MECHANICAL

BEFORE

Tensile Strength (MPa):	≥10.6 MPa
Aging Elongation (%):	≥300
Aging Condition (°Cxhrs):	100x168

AFTER

Tensile Strength (MPa):	≥85% of unaged
Aging Elongation (%):	≥50% of unaged
Cold Bend (-20±2° Cx4hrs):	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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Frequency (Mhz)	Return Loss (Min dB)	Attenuation (Max dB/100m)	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