VERTICAL CABLE

CAT6A DIRECT BURIAL CABLE

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

069-565/A/CMXT

DESCRIPTION

600 MHz CAT6A, Outdoor UV Dual Jacket, CMX/ Water-Resistant/Direct Burial, 4 Twisted Pairs (F/UTP) 8 23-AWG Solid Bare Copper Conductors

FEATURES

- Supports 10/100/1000BASE-T applications
- Ideal for 10G Networks up to 100 meters
- Fast Ethernet and 155Mbps TP-PMD/ CDDI
- Outdoor UV-resistant dual jacket
- Water-Resistant / Direct Burial / Overall Shield
- 600 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
- Weight: 55 lb (25 kg)

TRANSMISSION PERFORMANCE

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

CONSTRUCTION

Pairs:	4
Conductors:	8
Drain Wire:	Tinned Copper 0.02 in. (0.51 mm)
Separator Material:	High Density Polyethylene (HDPE)
Screen:	Foiled (F/UTP)

CONDUCTORS

Material:	Solid Bare Annealed Copper
Size:	23 AWG

INSULATION

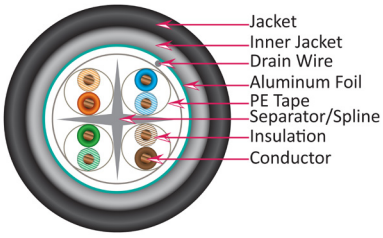
Material:	Three pairs with HDPE / One pair with Foam PE
Diameter:	0.04 in. (1.02 mm)
Average Thickness:	0.01 in. (0.25 mm)
Color Coding:	**Pair 1:** White-Blue/Blue **Pair 2:** White-Orange/Orange **Pair 3:** White-Green/Green **Pair 4:** White-Brown/Brown

INNER JACKET (GRAY)

Material:	Polyvinyl Chloride (PVC)
Outer Diameter:	0.29 in. (7.30 mm)
Average Thickness:	0.02 in. (0.51 mm)

OUTER JACKET (BLACK)

Material:	Linear Low Density Polyethylene (LLDPE)
Outdoor Rating:	UV-Resistant
Outdoor Diameter:	0.36 in. (9.20 mm)
Average Thickness:	0.0255 in. (0.65 mm)
Marking:	VERTICAL 4001453 cETLus VERIFIED CMX UTP 4PR 23AWG OUTDOOR UV LLDPE 10GS AUGMENTED CAT6A 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

RoHS Intertek

Rev. 01/2026

ELECTRICAL CHARACTERISTICS

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°C x 4hrs):	No Crack
Maximum Pulling Force:	100 N
Minimum Bending Radius:	8XOD
Nominal Weight:	68 KG/KM
Operating Temperature:	-40 °C ~ +70 °C

SAFETY

FPA 70 (NEC®) fire rating:	CMX

ENVIRONMENTAL

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

Transmission Frequency (Mhz)	NEXT (dB)	Attenuation (dB/100m)	Return Loss (dB)	PSNEXT (dB)	ACRF (dB)	PS ACRF (dB)	PS ANEXT (dB)	PS AACRF (dB)	Delay (ns/100m)	Skew (ns/100m)
1	74.3	2.1	20	72.3	67.8	64.8	92.5	78.2	570	45
4	65.3	3.8	23	63.3	55.8	52.8	83.5	66.2	552	
10	59.3	5.9	25	57.3	47.8	44.8	77.5	58.2	545	
16	56.2	7.5	25	54.2	43.7	40.7	74.4	54.1	543	
20	54.8	8.4	25	52.8	41.8	38.8	73.0	52.2	542	
31.25	51.9	10.5	23.6	49.9	37.9	34.9	70.1	48.3	540	
62.5	47.4	15.0	21.5	45.4	31.9	28.9	65.6	42.3	539	
100	44.3	19.1	20.1	42.3	27.8	24.8	62.5	38.2	538	
200	39.8	27.6	18	37.8	21.8	18.8	58.0	32.2	537	
250	38.3	31.1	17.3	36.3	19.8	16.8	56.5	30.2	536	
500	33.8	45.3	15.2	31.8	13.8	10.8	52.0	24.2	536	

Frequencies	Characteristic Impedance (ohm)
1	100+/- 15
4	
10	
16	
20	
31.25	
62.5	
100	
200	+/- 22
250	
500	+/- 25