

CAT6A DIRECT BURIAL CABLE

CMX / UV-RESISTANT / WATERPROOF

23 AWG 8 CONDUCTOR (F/UTP)



DESCRIPTION

600 MHz CAT6A, Outdoor UV Dual Jacket,
CMX / Waterproof / 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
- Waterproof / 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



069-565/A/CMXT

TRANSMISSION PERFORMANCE

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

CONSTRUCTION

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

CONDUCTORS

Material:	Solid Bare Annealed Copper
Size:	23 AWG

INSULATION

Material:	Three pairs with HDPE / One pair with Foam PE
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

INNER JACKET (GRAY)

Material:	Polyvinyl Chloride (PVC)
Outer diameter:	0.29 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 CMX UTP 4PR 23AWG OUTDOOR UV LLDPE 10GS AUGMENTED CAT6A ANSI/TIA-568.2-D RoHS XXXXFT

ELECTRICAL

Voltage rating:	60 V _{RMS}
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MECHANICAL

Before Tensile Strength (Mpa):	≥14.8 MPa
Elongation After Aging (%):	≥100
Aging Conditions (°C × h):	100×240
Tensile Strength After Aging (Mpa):	≥85% of unaged
Elongation After Aging (%):	≥50% of unaged
Cold Bend (-40±2° C×4hrs):	No Crack
Maximum Pulling Force:	100 N
Minimum Bending Radius:	8XOD

SAFETY

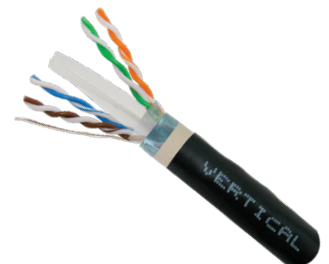
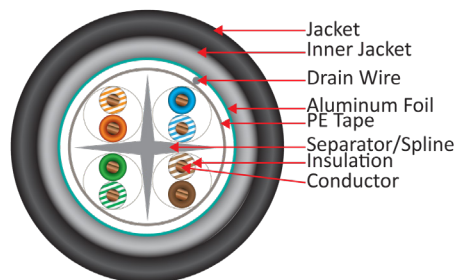
FPA 70 (NEC®) fire rating:	CMX
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ENVIRONMENTAL

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

	55 lb (25 kg)
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VERTICAL CABLE

951.696.7772 California
800.749.2447 Florida
845.391.8318 New York
713.322.7242 Texas



verticalcable.com

Rev. 07/2025

Subject to change without notice.

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CMX / UV-RESISTANT / WATERPROOF

23 AWG 8 CONDUCTOR (F/UTP)

PERFORMANCE

MECHANICAL CHARACTERISTICS

Maximum Pulling Force:	100 N
Minimum Bending Radius:	8*OD
Nominal Weight:	68 KG/KM
Operating Temperature:	-40 °C ~ +70 °C
Installation Temperature:	+0 °C ~ +50 °C

ELECTRICAL CHARACTERISTICS

Transmission Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	200	250	500
NEXT dB	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3	33.8
Characteristic Impedance (ohm)	100+/- 15								+/- 22		+/- 25
Attenuation dB/100m	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	27.6	31.1	45.3
Return Loss dB	20	23	25	25	25	23.6	21.5	20.1	18	17.3	15.2
PSNEXT dB	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	31.8
ACRF dB	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8	13.8
PS ACRF dB	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8	10.8
PS ANEXT dB	92.5	83.5	77.5	74.4	73.0	70.1	65.6	62.5	58.0	56.5	52.0
PS AACRF dB	78.2	66.2	58.2	54.1	52.2	48.3	42.3	38.2	32.2	30.2	24.2
Delay ns/100m	570	552	545	543	542	540	539	538	537	536	536
Skew ns/100m	45										

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