

CAT6 DIRECT BURIAL CABLE

CMX / WATERPROOF / UV-RESISTANT

23 AWG 8 CONDUCTOR (F/UTP)



VERTICAL CABLE

Simply Connect.

DESCRIPTION

550 MHz CAT6, Waterproof Outdoor Dual Jacket, Direct Burial / CMX / Overall Shield, 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 / Shielded / Dual Jacket
- 550-MHz bandwidth supporting wide range of applications
- 23 AWG Solid Copper Conductors
- Supports PoE++ (Type 4)
- 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



069-556/CMXT2K

TRANSMISSION PERFORMANCE

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

CONSTRUCTION

Pairs:	4
Conductors:	8
Rip Cord:	1
PE Tape:	1
Separator Material:	High Density Polyethylene (HDPE)
Drain Wire (Tinned Copper):	0.016 in. (0.40 mm)
Screen:	Foiled (F/UTP)

CONDUCTORS

Material:	Solid Bare Annealed Copper
Size:	23 AWG

INSULATION

Material:	3 Pairs with HDPE 1 Pair with Foam PE
Diameter:	0.0440 in. (1.12 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:	0.28 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:	0.0256 in. (0.65 mm)
Marking:	VERTICAL 4001453 cETLus VERIFIED F/UTP 4PR 23AWG OUTDOOR DIRECT BURIAL 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):	≥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° Cx4hrs):	No Crack
Maximum Pulling Force:	100 N
Minimum Bending Radius:	8XOD

SAFETY

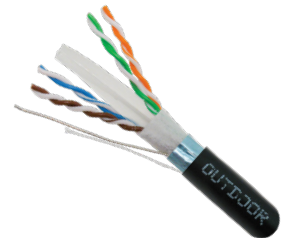
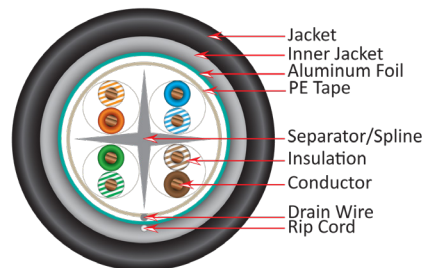
FPA 70 (NEC®) fire rating:	CMX
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ENVIRONMENTAL

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

	100.3 lb (45.5 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. 03/2025

Subject to change without notice.

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PERFORMANCE

ELECTRICAL CHARACTERISTICS

Characteristics Impedance:	100±15 Ohms
Delay Skew:	≤45 (nS/100m)
Pair to Ground Capacitance:	≤330 (Pf/100m) Unbalance
Max. conductor DC Resistance:	93.8 (ohms/km) 20°C
Resistance Unbalance:	5% Max

* Conductors will handle up to PoE type 4 voltages 60 V, insulation material will handle up to 300 V.

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
550	14.4	50.3	32.8	32.1	12.6	NA

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