



VERTICAL CABLE

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
- 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: 100.3 lb (45.5 kg)



CAT6 DIRECT BURIAL CABLE

CMX | WATER-RESISTANT | UV-RESISTANT

23 AWG 8 CONDUCTOR (F/UTP)

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
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

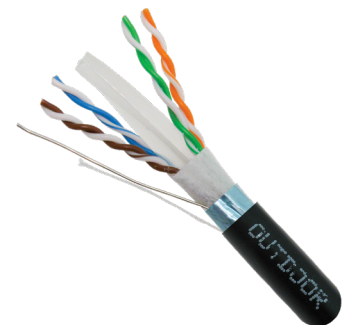
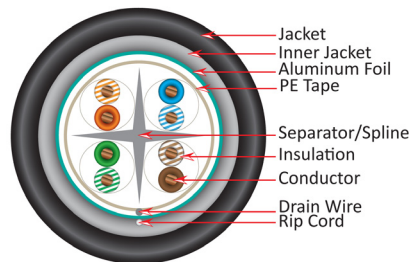
Material:	Three pairs with HDPE / One pair with Foam PE
Diameter:	0.04 in. (1.02 mm)
Average Thickness:	0.01 in. (0.25 mm)
Color Coding:	Pair 1: White-Blue/Blue Pair 2: White-Orange/Orange Pair 3: White-Green/Green Pair 4: White-Brown/Brown

INNER JACKET (GRAY)

Material:	Polyvinyl Chloride (PVC)
Outer Diameter:	0.28 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 F/UTP 4PR 23AWG OUTDOOR DIRECT BURIAL UV LLDPE CAT6 550MHz CMX 75C 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.



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ELECTRICAL CHARACTERISTICS

Voltage Rating:	60 V _{RMS}
Characteristics Impedance:	100±15
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%

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

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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*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