



VERTICAL CABLE

DESCRIPTION

CAT6 PoE Type 4, 550 MHz, CMX, Direct Burial, LLDPE Jacket, F/UTP Shielded, 23 AWG, Double Jacket, 1000 ft, Black

FEATURES

- Supports PoE Type 4 (IEEE 802.3bt) up to 100 W
- 23-AWG solid bare copper conductors
- Outdoor- and UV-Resistant Jacket Material
- Exceeds ANSI/TIA-568.2-D and ISO/IEC 11801
- CAN/CSA-C22.2 No. 214 compliant
- RoHS compliant, ETL-listed
- 1,000 ft. wooden spool
- Weight: 50.3 lb. (22.8 kg)

Compatible with VC RJ45 plugs

012-021-100 | 012-024/10G

012-026/EZF-100



For a proper RJ45 plug fit, you must trim the outer jacket of the cable



CAT6 DIRECT BURIAL CABLE

CMX | WATER-RESISTANT | UV-RESISTANT

23 AWG 8 CONDUCTOR (F/UTP)

069-561/CMXT

TRANSMISSION PERFORMANCE

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

CONSTRUCTION

Pairs:	4
Conductors:	8
Rip Cord:	Nylon
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
Conductor Voltage Rating:	60 V _{RMS}

INSULATION

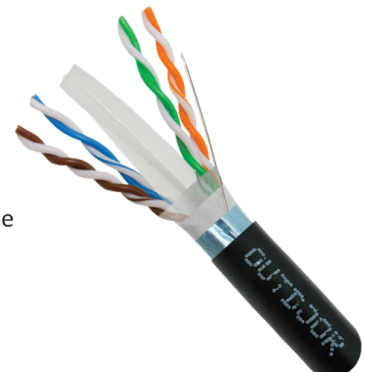
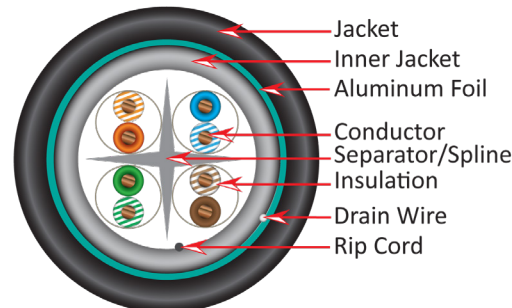
Diameter:	0.04 in. (1.02 mm)
Average Thickness:	0.01 in. (0.25 mm)
Insulation Rating:	300 V _{RMS}
Color Coding:	Pair 1: White-Blue/Blue Pair 2: White-Orange/Orange Pair 3: White-Green/Green Pair 4: White-Brown/Brown

INNER JACKET (GRAY)

Material:	Polyvinyl Chloride (PVC)
Outer Diameter:	0.28 in. (7.11 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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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