



VERTICAL CABLE

CAT6 DIRECT BURIAL CABLE

CMX | GEL-FILLED | UV-RESISTANT

23 AWG 8 CONDUCTOR (F/UTP)

069-558/S/CMXF

DESCRIPTION

**CAT6 PoE Type 4, 550 MHz, CMXF
Direct Burial, Gel-Flooded Core, Shielded,
23 AWG, Solid, 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
- RoHS compliant, ETL-listed
- 1,000 ft. wooden spool
- Weight: 49 lb. (22.2 kg)

Compatible with VC RJ45 plugs

012-021-100 | 012-022-100

012-023/EZF-100 | 012-025/EZF-100

012-026/EZF-100



TRANSMISSION PERFORMANCE

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

CONSTRUCTION

Pairs:	4
Conductors:	8
PE Tape:	2
Rip Cord:	Nylon
Gel Filler:	Flooded Core
Separator Material:	Low-Density Polyethylene (LDPE)
Drain Wire:	0.016 in. (0.40 mm) Tinned Copper
Screen:	Foiled (F/UTP)

CONDUCTORS

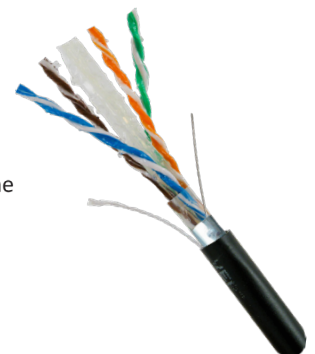
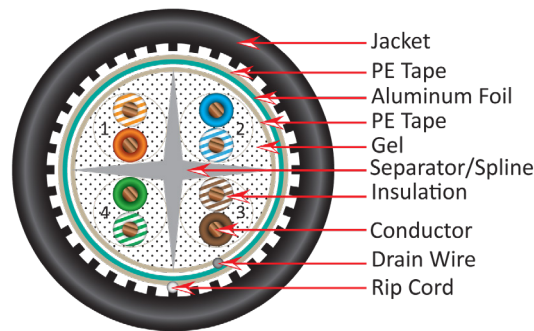
Material:	Solid Bare Annealed Copper
Size:	23 AWG

INSULATION

Diameter:	0.04 in. (1.02 mm)
Average Thickness:	0.0098 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

JACKET

Material:	Linear Low Density Polyethylene (LLDPE)
Outdoor Rating:	UV-Resistant
Outdoor Diameter:	0.3 in. (7.6 mm)
Average Thickness:	0.028 in. (0.71 mm)
Min. Point Thickness:	0.025 in. (0.64 mm)
Marking:	VERTICAL 4001453 cETLus VERIFIED F/UTP 4PR 23AWG OUTDOOR DIRECT BURIAL (FLOODED) UV LLDPE CAT6 550MHz ANSI/TIA-568.2-D RoHS V1379P13254 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}
1.0-100MHz Impedance:	100±15 Ohms
100-250MHz Impedance:	100±25 Ohms
250-550MHz Impedance:	100±35 Ohms
1.0-100.0MHz Delay Skew (ns/100m):	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m):	≤330
Max. Conductor DC Resistance:	68.5 Ohm/Km/20°C Max
Resistance Unbalance:	≤2%

MECHANICAL

BEFORE AGING

Tensile Strength (MPa):	≥10.8
Aging Elongation (%):	≥300
Aging Condition (°C × hrs):	100x168

AFTER AGING

Tensile Strength (MPa):	≥85% of unaged
Aging Elongation (%):	≥50% of unaged
Cold Bend (-20±2°C × 4hrs):	No Crack

SAFETY

FPA 70 (NEC®) fire rating:	CMX
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ENVIRONMENTAL

Operating Temperature:	-40 °F to 167 °F (-40 °C to 75 °C)
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PERFORMANCE TEST CHART

Frequency (Mhz)	Return Loss (Min dB)	Attenuation (Max dB/100m)	Next (Min dB)	PSNEXT (Min dB)	ACR (Min dB)	PSACR-F (Min dB)	Delay (Max dB/100m)
1	20.0	2.1	74.3	72.3	67.8	64.8	570.0
4	23.0	3.8	65.3	63.3	55.8	52.8	552.0
8	24.5	5.3	60.8	58.8	49.7	46.7	547.0
10	25.0	5.9	59.3	57.3	47.8	44.8	545.0
16	25.0	7.5	56.2	54.2	43.7	40.7	543.0
20	25.0	8.4	54.8	52.8	41.8	38.8	542.0
25	24.3	9.4	53.3	51.3	39.8	36.8	541.0
31.25	23.6	10.5	51.9	49.9	37.9	34.9	540.0
62.5	21.5	15.0	47.4	45.4	31.9	28.9	539.0
100	20.1	19.1	44.3	42.3	27.8	24.8	538.0
200	18.0	27.6	39.8	37.8	21.8	18.8	537.0
250	17.3	31.1	38.3	36.3	19.8	16.8	536.0
300	16.8	34.3	37.1	35.1	18.3	15.3	536.0
400	15.9	40.1	35.3	33.3	15.8	12.8	536.0
500	15.2	45.3	33.8	31.8	13.8	10.8	536.0

*Values above 250MHz are for information purposes only.

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