



VERTICAL CABLE

CAT6 DIRECT BURIAL CABLE

CMX | WATER-RESISTANT | UV-RESISTANT
23 AWG 8 CONDUCTOR (F/UTP)

069-556/CMXT2K

DESCRIPTION

CAT6 PoE Type 4, 550 MHz, CMX, Direct Burial, LLDPE Jacket, F/UTP Shielded, 23 AWG, Double Jacket, 2000 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
- 2,000 ft. wooden spool
- Weight: 96 lb (43.5 kg)

Compatible with VC RJ45 plugs

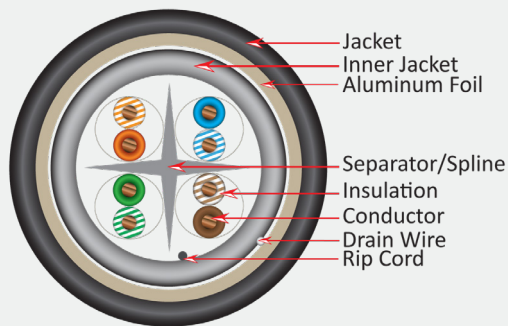
012-021-100 | 012-022-100

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

012-026/EZF-100



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



TRANSMISSION PERFORMANCE

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

CONSTRUCTION

| | |
|------------------------|------------------------------------|
| Pairs: | 4 |
| Conductors: | 8 |
| Rip Cord: | Nylon |
| PE Tape: | 1 |
| Drain Wire: | Tinned Copper / 0.016 in. (0.4 mm) |
| Separator Material: | Low-Density Polyethylene (LDPE) |
| Screen: | Aluminum Foil (F/UTP) |
| Twisted Pair Diameter: | 0.08 in. (1.96 ±0.02 mm) |
| Assembly Diameter: | 0.197 in. (5 mm) |

CONDUCTORS

| | |
|-----------------|----------------------------|
| Material: | Solid Bare Annealed Copper |
| Size: | 23 AWG |
| Outer Diameter: | 0.022 in. (0.56 mm) |

INSULATION

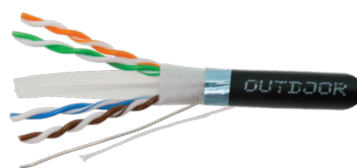
| | |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| Material: | HDPE |
| Diameter: | 0.039 in. (0.98 ±0.01 mm) |
| Average Thickness: | 0.008 in. (0.21 mm) |
| Min. Point Thickness: | 0.007 in. (0.19 mm) |
| Color 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: | 0.23 in. (5.8 mm ±0.2 mm) |
| Average Thickness: | 0.016 in. (0.4 mm) |
| Min. Point Thickness: | 0.014 in. (0.36 mm) |

OUTER JACKET (BLACK)

| | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Material: | Linear Low Density Polyethylene (LLDPE) |
| Outdoor Rating: | UV-Resistant |
| Outdoor Diameter: | 0.3 in. (7.6 ±0.2 mm) |
| Average Thickness: | 0.024 in. (0.60 mm) |
| Min. Point Thickness: | 0.021 in. (0.54 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*: | 300 V _{RMS} |
| Characteristics Impedance (1-250 MHz): | 100±15 ohms |
| Delay Skew: | ≤45 (nS/100m) |
| Pair to Ground Capacitance Unbalance: | ≤330 (Pf/100m) |
| Max. Conductor DC Resistance: | 74.3 (ohms/km) @ 20°C |
| Resistance Unbalance: | ≤5% |

MECHANICAL

| | |
|-----------------------------|----------------|
| Test Object: | Jacket (LLDPE) |
| 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 |
| Maximum Pulling Force: | 100 N |
| Minimum Bending Radius: | 8XOD |

SAFETY

| | |
|----------------------------|-----|
| FPA 70 (NEC®) fire rating: | CMX |
|----------------------------|-----|

ENVIRONMENTAL

| | |
|------------------------|------------------------------------|
| Operating Temperature: | -40 °F to 167 °F (-40 °C to 75 °C) |
|------------------------|------------------------------------|

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

PERFORMANCE TEST CHART

| Frequency (MHz) | Return Loss (Min dB) | Attenuation (Max dB/100m) | Next (Min dB) | PSNEXT (Min dB) | ACR-F (Min dB) | PSACR-F (Min dB) | Delay (Max ns/100m) |
|-----------------|----------------------|---------------------------|---------------|-----------------|----------------|------------------|---------------------|
| 1 | 20.0 | 2.0 | 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 | 546.7 |
| 10 | 25.0 | 6.0 | 59.3 | 57.3 | 47.8 | 44.8 | 545.4 |
| 16 | 25.0 | 7.6 | 56.2 | 54.2 | 43.7 | 40.7 | 543.0 |
| 20 | 25.0 | 8.5 | 54.8 | 52.8 | 41.8 | 38.8 | 542.0 |
| 25 | 24.3 | 9.5 | 53.3 | 51.3 | 39.8 | 36.8 | 541.2 |
| 31.25 | 23.6 | 10.7 | 51.9 | 49.9 | 37.9 | 34.9 | 540.4 |
| 62.5 | 21.5 | 15.4 | 47.4 | 45.4 | 31.9 | 28.9 | 538.6 |
| 100 | 20.1 | 19.8 | 44.3 | 42.3 | 27.8 | 24.8 | 537.6 |
| 200 | 18.0 | 29.0 | 39.8 | 37.8 | 21.8 | 18.8 | 536.5 |
| 250 | 17.3 | 32.8 | 38.3 | 36.3 | 19.8 | 16.8 | 536.3 |
| 300 | 16.8 | 36.4 | 37.1 | 35.1 | 18.3 | 15.3 | 536.1 |
| 400 | 15.9 | 43.0 | 35.3 | 33.3 | 15.8 | 12.8 | 535.8 |
| 500 | 15.2 | 48.9 | 33.8 | 31.8 | 13.8 | 10.8 | 535.6 |

*Values above 250MHz are for information purposes only.

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