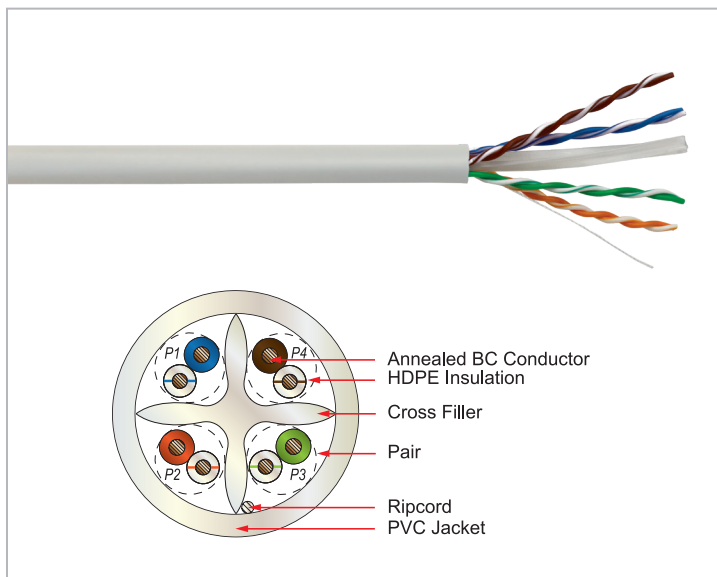




## Cat 6, 4 Pair, 23 AWG, UTP CMX Indoor / Outdoor Cable



### Applications

Vericom Category 6 Unshielded Indoor / Outdoor cable supports 10GBASE-T Ethernet based on limited distances per the standard, 1000BASE-T (Gigabit Ethernet), 100BASE-T (Fast Ethernet), 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM, Digital video and broadband/baseband analog video, Voice over Internet Protocol (VoIP) for commercial or residential applications. Category 6 is backwards compatible with Category 5e systems.

### Description / Specifications

Vericom Category 6 Unshielded CMX Cables are designed to meet and exceed ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E electrical performance requirements for frequencies up to 250 MHz with test results to 550 MHz. The cable construction utilizes 23 AWG solid conductors insulated with HDPE in a four twisted pair unshielded configuration, separated with an integral cross filler to reduce crosstalk to provide maximum system performance. Vericom Category 6 CMX Cable has a nominal cable diameter of 0.236" (6 mm), and is rated for indoor and outdoor applications.

### Features & Benefits

- Cable meets ANSI/TIA-568.2-D for compatibility with all standard compliant components
- The cross filler within this Vericom Category 6 Cable keeps pairs separated and pair twist consistent through the length of the cable reducing crosstalk up to and beyond 250 MHz
- CMX rated for indoor and outdoor applications
- UL Listed and RoHS compliant to ensure safety requirements are met
- Tested to 550 MHz to ensure consistent, repeatable performance within the existing standards as well as any future requirements for Category 6 cables
- Cable marking starts at a 1000ft and displays remaining cable length for future use
- Pull box packaging to ease installation and storage

### Standards Compliance

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- IEC 61156-5
- UL444
- RoHS Compliant
- Supports IEEE 802.3af/802.3at

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Cat 6, 4 Pair, 23 AWG, UTP CMX Indoor / Outdoor Cable

Ordering Information

Description		Packaging
Copper Cable, UTP, CAT6, 4 Pair, CMX		1,000 ft Pull Box
Item No. Prefix	Item No. Suffix	Color
MBW6U-	04774	White

VERICOM (UL) C(UL) E346149-1 TYPE CMX 75' 23AWG 4P CAT6 UTP ANSI/TIA-568.2-D ROHS COMPLIANT XXXXFT USED / XXXXFT REMAINING

Item # Example: MBW6U-04774 - Copper Cable, UTP, CAT6, 4 Pair, CMX Rated, White, 1,000 ft Pull Box

Cable Marking

Construction

- Conductor Material:** 23 AWG Annealed Bare Copper
- Insulation Material:** High Density Polyethylene (HDPE)
- Color Code :** BL & WH/BL, OR & WH/OR, GN & WH/GN, BR & WH/BR
- Filler Material :** Polyethylene (PE)
- Ripcord:** Yes
- Jacket Material:** Polyvinyl Chloride (PVC)
- Jacket Color:** Specified By Item Number

Electrical

- Mutual Capacitance:** 5.6 nF/100m max
- DC Resistance:** 9.38 Ω/100m max
- DC Resistance Unbalance:** 5% max
- Capacitance Unbalance Pair-to-Ground:** 330 pF/100m max

Voltage

UL Voltage Rating: 300V

Environmental Conditions

Cold Bend Test: -20 °C 4 Hours No Cracking

Delay

- Maximum Delay:** 537 ns/100m @ 100 MHz
- Maximum Delay Skew:** 45 ns/100m
- Velocity of Propagation:** 70.2% nom

Physical

- Conductor Diameter:** 0.022 in. (0.55 mm)
- Insulated Conductor Diameter:** 0.037 in. (0.95 mm)
- Cable Diameter:** 0.24 in. (6 mm)
- Nom. Cable Weight:** 26.6 lb. (12.1 kg)
- Max. Installation Tension:** 25 lb. (110 N)
- Min. Bend Radius:** ≥ 4 times of overall diameter

Temperature

- UL Rating:** 75°C
- Operating:** -4 °F to 140 °F (-20 °C to 60 °C)
- Installation:** 32 °F to 140 °F (0 °C to 60 °C)
- Storage:** -4 °F to 167 °F (-20 °C to 75°C)

Transmission Performance (at 20 °C)

Freq. (MHz)	IL Max. (dB/100m)	NEXT Min. (dB)	PSNEXT Min. (dB)	ACR Min. (dB/100m)	PSACR Min. (dB/100m)	ACRF Min. (dB/100m)	PSACRF Min. (dB/100m)	RL Min. (dB/100m)	DOP Max. (NS/100m)	Delay Skew Max. (NS/100m)
1	2.0	74.3	72.3	68.26	65.26	67.8	64.8	20.0	570	45.00
4	3.8	65.3	63.3	57.22	54.22	55.8	52.8	23.0	552	
8	5.3	60.8	58.8	50.99	47.99	49.7	46.7	24.5	547	
10	5.9	59.3	57.3	48.83	45.83	47.8	44.8	25.0	545	
16	7.5	56.2	54.2	43.99	40.99	43.7	40.7	25.0	543	
20	8.5	54.8	52.8	41.52	38.52	41.8	38.8	25.0	542	
25	9.5	53.3	51.3	38.91	35.91	39.8	36.8	24.3	541	
31.25	10.7	51.9	49.9	36.15	33.15	37.9	34.9	23.6	540	
62.5	15.4	47.4	45.4	26.37	23.37	31.9	28.9	21.5	539	
100	19.8	44.3	42.3	18.33	15.33	27.8	24.8	20.1	538	
150	24.7	41.7	39.7	10.11	7.11	24.3	21.3	18.9	537	
200	29.0	39.8	37.8	3.36	0.36	21.8	18.8	18.0	536	
250	32.8	38.3	36.3	N.A.	N.A.	19.8	16.8	17.3	536	
300	36.4	37.1	35.1	N.A.	N.A.	18.3	15.3	16.8	536	
350	39.8	36.1	34.1	N.A.	N.A.	16.9	13.9	16.3	536	
400	43.0	35.3	33.3	N.A.	N.A.	15.8	12.8	15.9	536	
450	46.0	34.5	32.5	N.A.	N.A.	14.7	11.7	15.5	535	
500	48.9	33.8	31.8	N.A.	N.A.	13.8	10.8	15.2	535	
550	51.7	33.2	31.2	N.A.	N.A.	13.0	10.0	14.9	535	