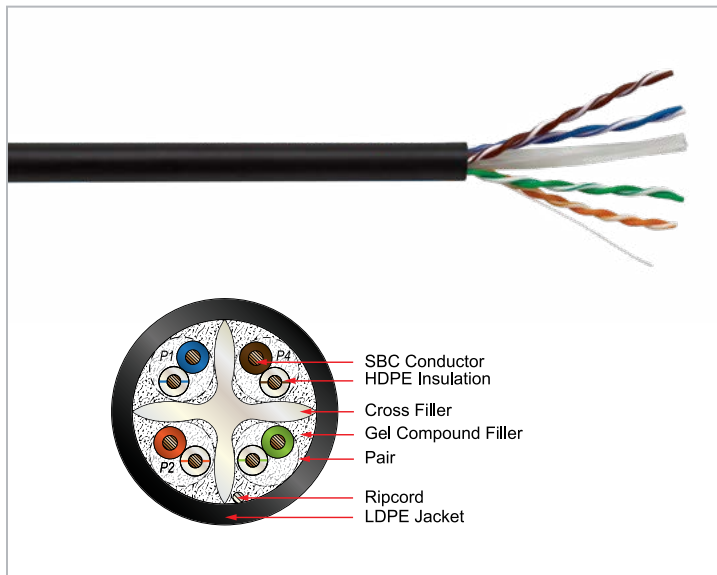




Cat 6, 4 Pair, 23 AWG, UTP Direct Burial Gel Filled CMX Cable



Features & Benefits

- Cable meets ANSI/TIA-568.2-D for compatibility with all standard compliant components
- Differential twisted pairs to reduce crosstalk
- Gel compound filled with a UV resistant CMX rated jacket for direct burial applications
- UL Listed and RoHS compliant to ensure safety requirements are met
- Tested to 550 MHz to ensure consistency past the standards limit of 250 MHz
- Cable marking starts at a 1000ft and displays remaining cable length for future use
- Wooden Spool for ease of installation and storage

Applications

Vericom Category 6 Unshielded Direct Burial Gel Filled CMX 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 residential and commercial direct burial applications. Category 6 is backwards compatible with Category 5e systems.

Description / Specifications

Vericom Category 6 Unshielded Direct Burial Gel Filled 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. The cable construction utilizes 23AWG solid conductors insulated with a gel compound filler and a sunlight resistant PVC in a four twisted pair unshielded configuration rated for direct burial applications.

Standards Compliance

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



Cat 6, 4 Pair, 23 AWG, UTP Direct Burial Gel Filled CMX Cable

Ordering Information

Description		Packaging
Copper Cable, UTP, CAT6, 4P, Direct Burial CMX		1,000 ft Spool
Item No. Prefix	Item No. Suffix	Color
MBW6U-	03676	Black

VERICOM 23 AWG 4P 75°C CAT6 U/UTP GEL FILLED TIA-568.2-D
ROHS COMPLIANT 0000FT USED / 1000FT REMAINING

Item # Example: MBW6U-03676 - Copper Cable, UTP, CAT6, 4 Pair, UV Resistant CMX Direct Burial Rated, Black, 1,000 ft Spool

Cable Marking

Construction

- Conductor Material:** 23 AWG Solid Bare Copper
- Insulation Material:** High Density Polyethylene (HDPE)
- Color Code :** BL & WH/BL, OR & WH/OR, GN & WH/GN, BR & WH/BR
- Cross Filler:** Yes
- Gel-Filled Compound:** Yes
- Ripcord :** Yes
- Jacket Material:** Sunlight Resistant Low Density Polyethylene (LDPE)
- Jacket Color:** Specied By Item Number

Electrical

- Mutual Capacitance:** 5.6 nF/100m max
- DC Resistance:** 8.7 Ω/100m max @ 20 °C
- DC Resistance Unbalance:** 2.5% max
- Capacitance Unbalance Pair-to-Ground:** 330 pF/100m max

Voltage

- UL Voltage Rating:** 300V

Delay

- Maximum Delay:** 537.6 ns/100m @ 100 MHz
- Maximum Delay Skew:** 45 ns/100m
- Velocity of Propagation:** 68% nom

Physical

- Conductor Diameter:** 0.022 in. (0.56 mm)
- Insulated Conductor Diameter:** 0.042 in. (1.06 mm)
- Cable Diameter:** 0.27 in. (6.9 mm)
- Nom. Cable Weight:** 31.6 lb. (14.35 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)

Nominal Transmission Characteristics (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	2.03	74.30	72.30	72.28	70.28	67.80	64.80	20.00	570.00	45.00
4	3.78	65.27	63.27	61.49	59.49	55.76	52.76	23.01	552.00	
8	5.32	60.75	58.75	55.43	53.43	49.74	46.74	24.52	546.73	
10	5.95	59.30	57.30	53.35	51.35	47.80	44.80	25.00	545.38	
16	7.55	56.24	54.24	48.68	46.68	43.72	40.72	25.00	543.00	
20	8.47	54.88	52.78	46.31	44.31	41.78	38.78	25.00	542.05	
25	9.51	53.33	51.33	43.83	41.83	39.84	36.84	24.32	541.20	
31.25	10.67	51.88	49.88	41.20	39.20	37.90	34.90	23.64	540.44	
62.5	15.38	47.36	45.36	31.98	29.98	31.88	28.88	21.54	538.55	
100	19.80	44.30	42.30	24.50	22.50	27.80	24.80	20.11	537.60	
150	24.71	41.66	39.66	16.95	14.95	24.28	21.28	18.87	536.94	
200	28.98	39.78	37.78	10.80	8.80	21.78	18.78	18.00	536.55	
250	32.85	38.33	36.33	5.48	3.48	19.84	16.84	17.32	536.28	
300	36.43	37.14	35.14	0.72	N.A.	18.26	15.26	16.77	536.08	
350	39.79	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92	
400	42.97	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80	
450	46.01	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70	
500	48.94	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61	
550	51.76	33.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535.54	

TECHNICAL SHEETS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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