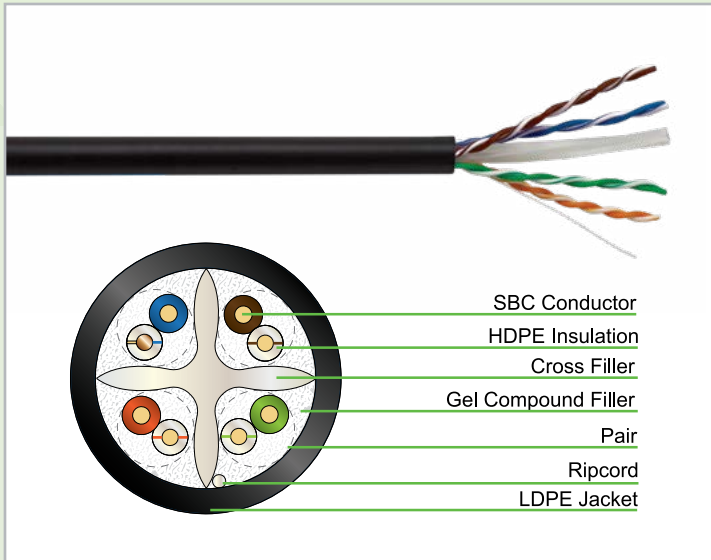


VGC™ Category 6 U/UTP Direct Burial Gel-Filled CMX Cable



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

The Vericom Category 6 Cable supports a wide range of high-performance networking standards, including 10GBASE-T Ethernet (within the distance limitations defined by the standard), 1000BASE-T (Gigabit Ethernet), 100BASE-T (Fast Ethernet), and ATM protocols at 155 Mb/s, 622 Mb/s, and 1.2 Gb/s. It is also suitable for digital video, broadband and baseband analog video, as well as Voice over Internet Protocol (VoIP).

For added versatility, Category 6 cabling is fully backward compatible with existing Category 5e systems, ensuring seamless integration into legacy infrastructures while providing enhanced performance for modern networking demands.

Description / Specifications

Vericom Category 6 Unshielded Direct Burial Gel-Filled CMX Cable is engineered to meet and exceed ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E electrical performance standards, supporting frequencies up to 250 MHz. Constructed with 23 AWG solid copper conductors, the cable features a gel compound filler for added moisture protection and a sunlight-resistant PVC jacket. Its four-pair unshielded twisted configuration is specifically rated for direct burial applications, ensuring reliable performance and durability in outdoor environments.

Standards Compliance

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

VGC™ Category 6 U/UTP Direct Burial Gel-Filled CMX Cable

Ordering Information

Cable Marking

Description	Packaging	Black	
Copper Cable, U/UTP, CAT6, 4Pair, Direct Burial CMX	1000 FT Spool	MBW6U-03676	VERICOM 23 AWG 4P 75°C CAT6 U/UTP GEL FILLED TIA-568.2-D ROHS COMPLIANT 0000FT USED / 1000FT REMAINING

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: 300 V

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)

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	2.03	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	