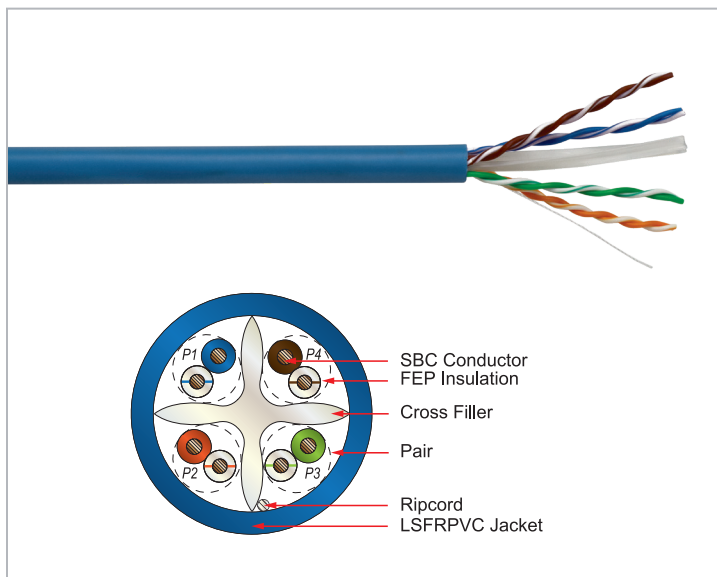




## Cat 6, 4 Pair, 23 AWG, UTP Plenum Rated Cable



### Applications

The Vericom Category 6 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). Category 6 is backwards compatible with Category 5e systems and is ideal for plenum spaces in commercial applications.

### Description / Specifications

Vericom Category 6 Plenum Cable is 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 1000ft pull box of cable (Reelex™ available but must be specified) is constructed with 23AWG solid conductors in a four pair configuration, separated with an integral cross filler to reduce crosstalk to provide maximum system performance. Vericom Category 6 CMP Cable has a nominal cable diameter of 0.22" (5.6 mm), is rated for plenum spaces.

### Features & Benefits

- Cable meets ANSI/TIA-568.2-D for compatibility with all standard compliant components
- Differential twisted pairs to reduce crosstalk
- CMP rated for plenum 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
- Customer can request Reelex™ Pull Box to reduce tangling and improve installation time

### Standards Compliance

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- IEC 61156-5
- UL444
- c(UL)us Listed
- NFPA 262
- CSA 22.2 No. 214
- EU Directive 2011/65/EC
- EU Directive 2006/95/EC
- RoHS Compliant
- Supports IEEE 802.3af/802.3at



Cat 6, 4 Pair, 23 AWG, UTP Plenum Rated Cable

Ordering Information

Description		Packaging	
Copper Cable, UTP, CAT6, 4 Pair, CMP		1,000 ft Pull Box	
Item No. Prefix	Item Suffix / Color	Item Suffix / Color	Item Suffix / Color
MBW6U-	02402 Blue	02403	White

VERICOM E346149-\* 23 AWG 4P 75°C C(UL)US CMP RoHS COMPLIANT YYMMDD HH:mm --- VERIFIED TO TIA-568.2-D CAT6 XXXXFT USED/XXXXFT REMAINING

Note: YYMMDD HH:mm is date code.

Item # Example: MBW6U-02402 - Copper Cable, UTP, CAT6, 4 Pair, CMP Rated, Blue, 1,000 ft Pull Box

Cable Marking

Construction

- Conductor Material:** 23 AWG Solid Bare Copper
- Insulation Material:** Fluorinated ethylene propylene (FEP)
- Color Code :** BL & WH/BL, OR & WH/OR, GN & WH/GN, BR & WH/BR
- Filler Material:** Polyolefin (PO)
- Ripcord Material:** Polyester Multi-Yarn
- Jacket Material:** Low Smoke Flame Resistant PVC (LSFRPVC)
- Jacket Color:** Specied By Item Number

Delay

- Maximum Delay:** 537.6 ns/100m @ 100 MHz
- Maximum Delay Skew:** 45 ns/100m
- Velocity of Propagation:** 73% nom

Physical

- Conductor Diameter:** 0.023 in. (0.57 mm)
- Insulated Conductor Diameter:** 0.037 in. (0.95 mm)
- Cable Diameter:** 0.22 in. (5.6 mm)
- Nom. Cable Weight:** 26.78 lb. (12.15 kg)
- Max. Installation Tension:** 25 lb. (110 N)
- Min. Bend Radius:** ≥ 4 times of overall diameter

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

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:** 0 °F to 167 °F (-20 °C to 75°C)

Voltage

- UL Voltage Rating:** 300 V (CMP)

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	54.78	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	