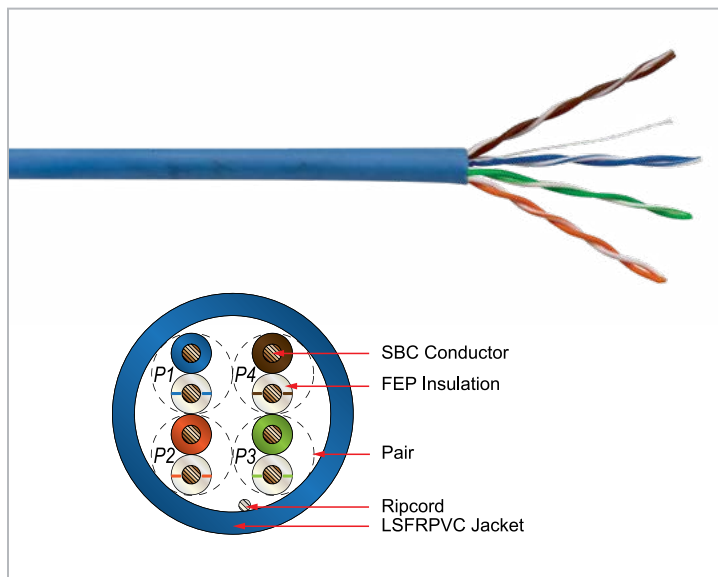




## Cat 5e, 4 Pair, 24 AWG, UTP Plenum Rated Cable



### Applications

Vericom Category 5e Unshielded Plenum cable supports 10BASE-T (Ethernet), 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 155 Mb/s ATM, 622 Mb/s ATM, digital video, broadband/baseband analog video, and Voice over Internet Protocol (VoIP) for plenum spaces in commercial applications.

### Description / Specifications

Vericom Category 5e Unshielded CMP Cables are designed to meet and exceed ANSI/TIA-568.2-D Category 5e and ISO 11801 Class D electrical performance requirements for frequencies up to 100 MHz with test results to 350 MHz. The 1000ft pull box of cable (Reelex™ available but must be specified) is constructed with 24 AWG solid conductors in a four pair configuration, with differential twisted pairs to reduce crosstalk and provide maximum system performance. The conductor insulation is FEP material with a LSFRPVC jacket. Our Category 5e CMP Cable has a nominal cable diameter of 0.17" (4.5mm), is rated for plenum spaces applications.

### 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 350 MHz to ensure consistency past the standards limit of 100 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 5e, 4 Pair, 24 AWG, UTP Plenum Rated Cable

### Ordering Information

Description		Packaging	
Copper Cable, UTP, CAT5e, 4 Pair, CMP		1,000 ft Pull Box	
Item No. Prefix	Item Suffix / Color	Item Suffix / Color	Item Suffix / Color
MBW5U-	02400 Blue	02401	White

VERICOM E346149-\* 24 AWG 4P 75°C c(UL)us CMP ROHS COMPLIANT YYMMDD 00:00 VERIFIED TO TIA-568.2-D CAT5E 0000FT USED / 1000FT REMAINING

Note: YYMMDD HH:mm is date code.

Item # Example: MBW5U-02400 - Copper Cable, UTP, CAT5e, 4 Pair, CMP Rated, Blue, 1,000 ft Pull Box

### Cable Marking

### Construction

- Conductor Material:** 24 AWG Solid Bare Copper
- Insulation Material:** Fluorinated Ethylene Propylene (FEP)
- Color Code :** BL & WH/BL, OR & WH/OR, GN & WH/GN, BR & WH/BR
- Ripcord Material:** Polyester Multi-Yarn
- Jacket Material:** Low Smoke Flame Retardant PVC Compound (LSFRPVC)
- Jacket Color:** Specied 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

### Voltage

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

### Delay

- Maximum Delay:** 537.6 ns/100m @ 100 MHz
- Maximum Delay Skew:** 45 ns/100m
- Velocity of Propagation:** 71.8% nom

### Physical

- Conductor Diameter:** 0.022 in. (0.56 mm)
- Insulated Conductor Diameter:** 0.033 in. (0.84 mm)
- Cable Diameter:** 0.17 in. (4.5 mm)
- Nom. Cable Weight:** 18.69 lb. (8.48 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	2.04	65.30	62.30	63.26	60.26	63.80	60.80	20.00	570.00	45.00
4	4.05	56.27	53.27	52.22	49.22	51.26	48.76	23.01	552.00	
8	5.77	51.75	48.75	45.99	42.99	45.74	42.74	24.52	546.73	
10	6.47	50.30	47.30	43.83	40.83	43.80	40.80	25.00	545.38	
16	8.25	47.24	44.24	38.99	35.99	39.72	36.72	25.00	543.00	
20	9.27	45.78	42.78	36.52	33.52	37.78	34.78	25.00	542.05	
25	10.42	44.33	41.33	33.91	30.91	35.84	32.84	24.32	541.20	
31.25	11.72	42.88	39.88	31.15	28.15	33.90	30.90	23.64	540.44	
62.5	16.99	38.36	35.36	21.37	18.37	27.88	24.88	21.54	538.55	
100	21.98	35.30	32.30	13.33	10.33	23.80	20.80	20.11	537.60	
150	27.54	32.66	29.66	5.11	2.11	20.28	17.28	18.87	536.94	
200	32.42	30.78	27.78	N.A.	N.A.	17.78	14.78	18.00	536.55	
250	36.85	29.33	26.33	N.A.	N.A.	15.84	12.84	17.32	536.28	
300	40.97	28.14	25.14	N.A.	N.A.	14.26	11.26	16.77	536.08	
350	44.85	27.14	24.14	N.A.	N.A.	12.92	9.92	16.30	535.92	