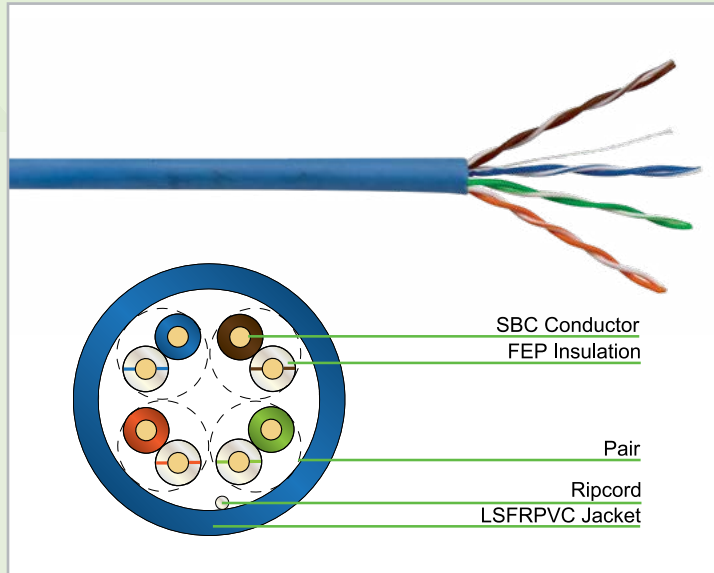


VGC™ Category 5e U/UTP Plenum Cable



Features & Benefits

- Cable meets ANSI/TIA-568-C.2 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

Applications

Vericom Category 5e Plenum Rated Indoor Cable provides dependable performance in commercial plenum spaces, supporting a broad range of technologies such as 10BASE-T Ethernet, 100BASE-T Fast Ethernet, 1000BASE-T Gigabit Ethernet, 155 Mb/s and 622 Mb/s ATM, digital video, broadband and baseband analog video, and Voice over Internet Protocol (VoIP).

Description / Specifications

Built for reliability and performance, the Vericom VGC™ Category 5e Plenum Cable surpasses ANSI/TIA-568.2-D and ISO 11801 Class D standards, delivering certified performance up to 100 MHz with extended testing to 350 MHz.

Each 1000 ft pull box (Reelex™ available upon request) features 24AWG solid conductors in a four-pair configuration, with precision-twisted differential pairs designed to minimize crosstalk and maximize system performance. With FEP insulation and a LSFRPVC jacket, it is fully rated for plenum installations, combining safety with high-end performance.

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

VGC™ Category 5e U/UTP Plenum Cable

Ordering Information

Description		Packaging
Copper Cable, U/UTP, CAT5e, 4Pair, CMP		1000 FT Pull Box
Blue	White	
MBW5U-02400	MBW5U-02401	

Cable Marking

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.

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

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

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 & Shipping: -4 °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	2.04	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	