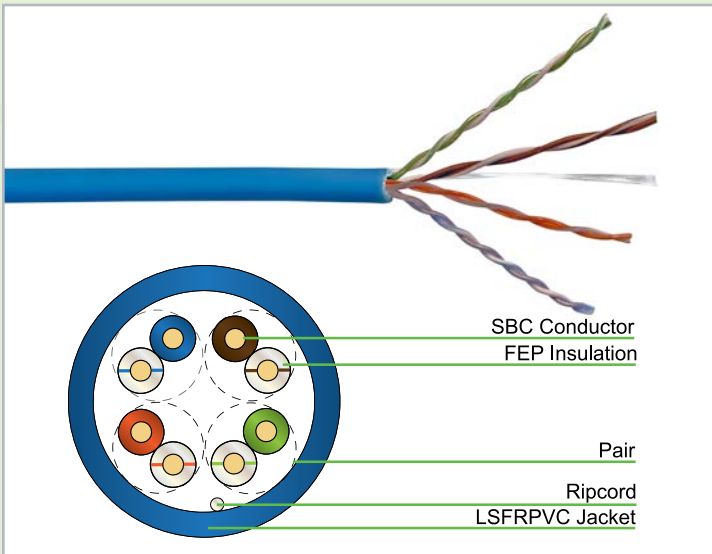


VGS6E™ Category 6 U/UTP No Spine Plenum Cable



Applications

The Vericom VGS6E™ Category 6 Cable delivers reliable support for a wide range of high-performance applications, 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 well-suited for digital video, broadband/baseband analog video, and Voice over Internet Protocol (VoIP).

Fully backward compatible with Category 5e systems, the VGS6E™ Cable is designed to support Power over Ethernet (PoE) technologies, including IEEE 802.3af/802.3at (up to 48 cables in a bundle) and IEEE 802.3bt Type 3 and Type 4 (up to 24 cables in a bundle), ensuring dependable performance for modern network infrastructures.

Description / Specifications

Vericom VGS6E™ Category 6 Plenum 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. Supplied in a 1000 ft Reelex™ pull box, the cable is constructed with 23 AWG solid copper conductors in a four-pair configuration. Designed without a cross filler, it allows for faster and more efficient cable termination.

The conductors are insulated with FEP material and protected by a durable PVC jacket. With a nominal diameter of 0.20" (5.1 mm), the VGS6E™ Category 6 CMP Cable is plenum-rated and fully suitable for Power over Ethernet (PoE) applications, delivering reliable performance in demanding installation environments.

Features & Benefits

- Smaller diameter cable design reduces bundle sizes to improve airflow in high density applications to reduce required pathway spaces and accommodate a smaller bend radius.
- Vericom VGS6E™ Category 6 Cable removes the filler to speed installation and manages crosstalk up to and beyond 250 MHz
- Vericom VGS6E™ is tested to 550 MHz to ensure consistent, repeatable performance within the existing standards as well as any future requirements for Category 6 cables.
- ANSI/TIA-568.2-D and ISO 11801 Class E Category 6 ensures interoperability with all standards compliant connectivity.
- Support of PoE/PoE+ over 100 meter channels.
- Reelex™ Pull Box to reduce tangling and improve installation time

Standards Compliance

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- EN 50173-1 Class E
- IEC 61156-5
- ETL Verified
- RoHS Compliant
- UL 444
- Supports IEEE 802.3af/802.3at



VGS6E™ Category 6 U/UTP No Spine Plenum Cable

Ordering Information

Cable Marking

Item Number	Description	
EP6013P-XX1000FB	23 AWG Copper Cable, U/UTP, CAT6, 4 Pair, CMP	VERICOM E346149-W 23AWG 4P 75° C(UL)US CMP RoHS COMPLIANT YYMMDD hh:mm --- ETL VERIFIED TO TIA-568.2-D CAT6 XXXXFT USED / XXXXFT REMAINING
Specify jacket color by substituting XX in Item # for the following:		BL BK GY WH YE Note: YYMMDD HH:mm is date code.

Item # Example: EP6013P-BL1000FB - Copper Cable, UTP, CAT6, 4 Pair, CMP Rated, Blue, 1000 ft Pull Box

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
- Ripcord Material:** Polyester Multi-Yarn
- Jacket Material:** Low Smoke Flame Retardant PVC Compound
- Jacket Color:** Specified 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), 300 V (CL3P)

Transmission Performance (at 20 °C)

Delay

- Maximum Delay:** 537.6 ns/100m @ 100 MHz
- Maximum Delay Skew:** 45 ns/100m
- Velocity of Propagation:** 72% nom

Physical

- Conductor Diameter:** 0.022 in. (0.56 mm)
- Max. Insulated Conductor Diameter:** 0.038 in. (0.97 mm)
- Min. Insulated Conductor Diameter:** 0.036 in. (0.92 mm)
- Cable Diameter:** 0.20 in. (5.1 mm)
- Nom. Cable Weight:** 23.85 lb. (10.82 kg)
- Max. Installation Tension:** 25 lb. (110 N)
- Min. Bend Radius:** 1.00 in. (25.40 mm)

Temperature

- UL Rating:** 75°C
- Operating:** -4 °F to 167 °F (-20 °C to 75 °C)
- Installation:** 32 °F to 140 °F (0 °C to 60 °C)
- Storage:** -4 °F to 167 °F (-20 °C to 75 °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	

VALUES ABOVE 250 MHZ ARE FOR INFORMATION ONLY. TECHNICAL SHEETS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

TECHNICAL SHEETS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

REV.20260101.6