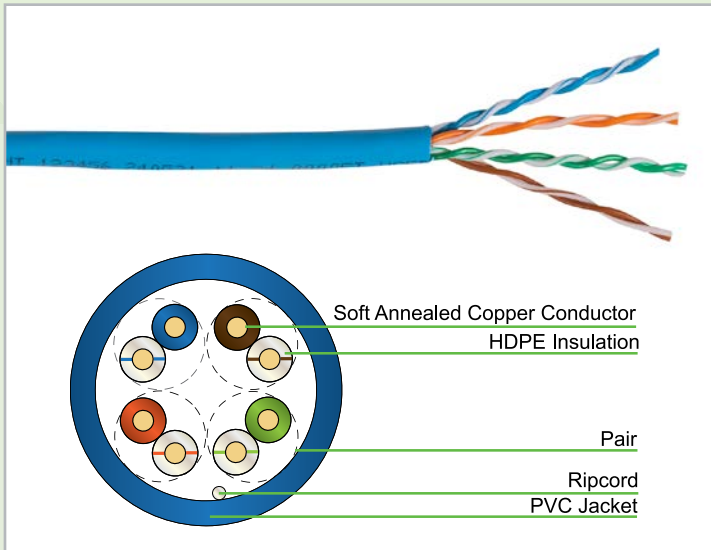


VGS6E™ Category 6 U/UTP No Spine Riser Cable



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

The Vericom VGS6E™ Category 6 Riser Cable is engineered to exceed ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E performance standards, supporting frequencies up to 250 MHz. Packaged in a 1000 ft Reelex™ pull box, it features 23 AWG solid copper conductors arranged in a four-pair configuration. Designed without a cross filler, the cable enables faster, more efficient terminations.

Each conductor is insulated with high-density polyethylene (HDPE) and protected by a rugged PVC jacket. With a nominal diameter of 0.22" (5.5 mm), the VGS6E™ Category 6 CMR Cable is rated for non-plenum spaces and fully supports Power over Ethernet (PoE) applications, delivering consistent, 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
- UL 1666 (CMR)
- UL 444
- RoHS Compliant
- Supports IEEE 802.3af/802.3at



VGS6E™ Category 6 U/UTP No Spine Riser Cable

Ordering Information

Cable Marking

Item Number	Description	
EP6013R-XX1000FB	23 AWG Copper Cable, U/UTP, CAT6, 4 Pair, CMR	VERICOM (UL) c(UL) E346149-G TYPE CMR 75° 23 AWG 4P CAT6 UTP TIA-568.2-D ROHS COMPLIANT YYMMDD HH:mm XXXXFT USED/ XXXXFT REMAINING
Specify jacket color by substituting XX in Item # for the following:		Note: YYMMDD HH:mm is date code.
	<input type="checkbox"/> BL <input type="checkbox"/> BK <input type="checkbox"/> GY <input type="checkbox"/> WH <input type="checkbox"/> YE	

Item # Example: EP6013R-BL1000FB - Copper Cable, UTP, CAT6, 4 Pair, CMR Rated, Blue, 1000 ft Pull Box

Construction

- Conductor Material:** 23 AWG Soft & Annealed Copper
- Insulation Material:** High Density Poly Ethylene (HDPE)
- Color Code :** BL & WH/BL, OR & WH/OR, GN & WH/GN, BR & WH/BR
- Ripcord:** None
- Jacket Material:** Polyvinyl Chloride (PVC)
- 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 (CMR)

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	2.00	74.30	72.30	72.28	70.28	67.80	64.80	20.00	570	45.00
4	3.80	65.30	63.30	61.49	59.49	55.80	52.80	23.00	552	
8	5.32	60.75	58.75	55.43	53.43	49.74	46.74	24.52	547	
10	6.00	59.30	57.30	53.35	51.35	47.80	44.80	25.00	545	
16	7.60	56.20	54.20	48.68	46.68	43.70	40.70	25.00	543	
20	8.50	54.80	52.80	46.31	44.31	41.80	38.80	25.00	542	
25	9.51	53.33	51.33	43.83	41.83	39.84	36.84	24.32	541	
31.25	10.70	51.90	49.90	41.20	39.20	37.90	34.90	23.60	540	
62.5	15.40	47.40	45.40	31.98	29.98	31.90	28.90	21.50	539	
100	19.80	44.30	42.30	24.50	22.50	27.80	24.80	20.10	538	
150	24.71	41.66	39.66	16.95	14.95	24.28	21.28	18.87	537	
200	29.00	39.80	37.80	10.80	8.80	21.80	18.80	18.00	537	
250	32.80	38.30	36.30	5.48	3.48	19.80	16.80	17.30	536	
300	36.43	37.14	35.14	0.72	N.A.	18.26	15.26	16.77	535	
350	39.79	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535	
400	42.97	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535	
450	46.01	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535	
500	48.94	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535	
550	51.76	33.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535	

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

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