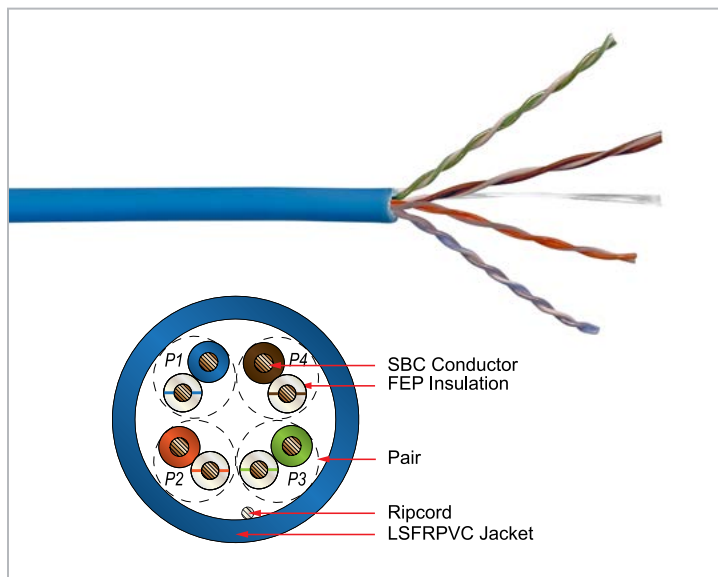




VGS6E™ Category 6 UTP 23 AWG CMP Cable



Applications

The Vericom VGS6E™ 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 as well as IEEE 802.3af/802.3at (48 cables in a bundle) and 802.3bt type 3 and type 4 (24 cables in a bundle) PoE applications.

Description / Specifications

Vericom VGS6E™ 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 Reelex™ pull box of cable is constructed with 23AWG solid conductors in a four pair configuration, without a cross filler for faster, more efficient cable termination. The conductor insulation is FEP material with a PVC jacket. VGS6E™ Category 6 CMP Cable has a nominal cable diameter of 0.20" (5.1mm), is rated for plenum spaces and suitable for PoE applications.

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 EA
- IEC 61156-5
- ETL Verified
- RoHS Compliant
- UL 444
- Supports IEEE 802.3af/802.3at



VGS6™ Category 6 UTP 23 AWG CMP Cable

Ordering Information

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

Note: YYMMDD HH:mm is date code.

Specify jacket color by substituting **XX** in Item # for the following:

BL **WH**

Item # Example: EP6013P-BL1000FB - Copper Cable, UTP, CAT6, 4 Pair, CMP Rated, Blue, 1000 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
- Ripcord Material:** Polyester Multi-Yarn
- Jacket Material:** Low Smoke Flame Retardant PVC Compound
- Jacket Color:** Specied By Item Number

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)

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)

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)

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	54.88	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.

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