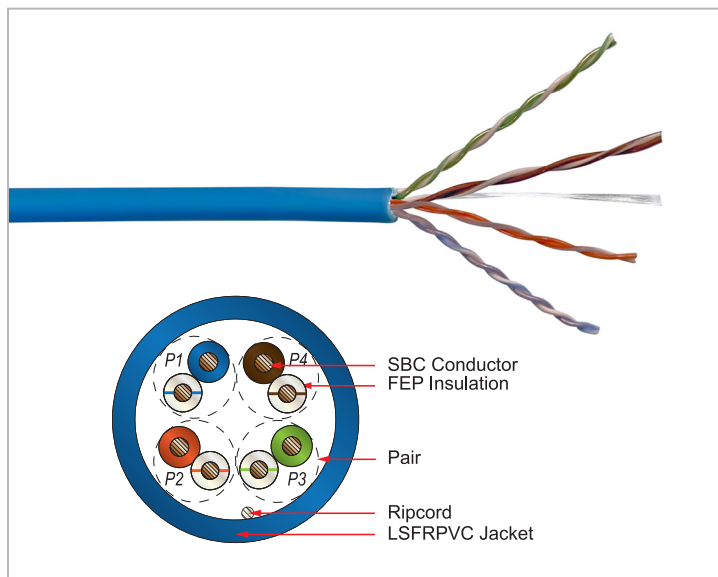




VGS6E™ Category 6 UTP 23 AWG No-Spline CMP Cable



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

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.



VGS6E™ Category 6 UTP 23 AWG No-Spline CMP Cable

Ordering Information

Item Number	Description	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
EP6013P-XX1000FB	23 AWG Copper Cable, U/UTP, CAT6, 4 Pair, CMP	Note: YYMMDD HH:mm is date code.

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

BL **BK** **GY** **WH** **YE**

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: 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

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)

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.

REV.20250315.5