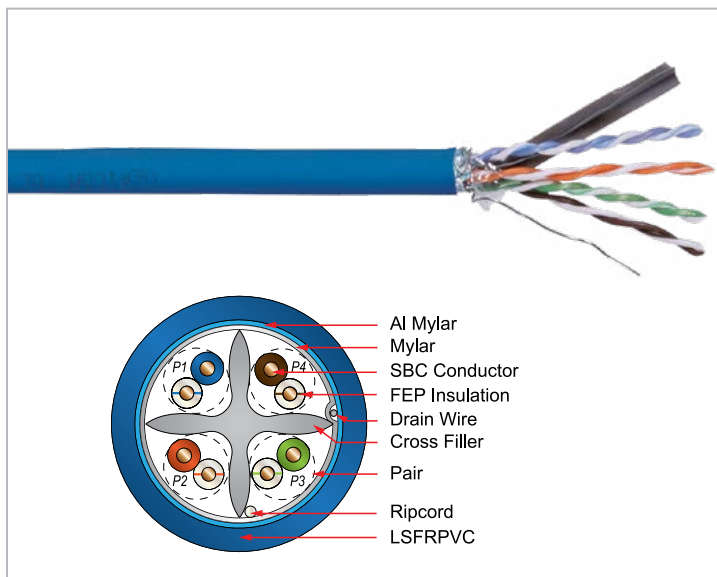




## VGS6A™ Category 6A F/UTP 23 AWG CMP Cable



### Applications

The Vericom VGS6A™ Category 6A F/UTP Cable supports shielded 10GBASE-T Ethernet, 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). Shielded Category 6A is backwards compatible with Category 6 and 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 VGS6A™ Category 6A F/UTP Cable is designed to meet and exceed ANSI/TIA-568.2-D Category 6A and ISO 11801 Class EA electrical performance requirements for frequencies up to 500 MHz. The 1000ft Reelex™ pull box of cable is constructed with 23 AWG solid conductors in a four pair configuration, separated with an integral cross filler, and surrounded by a continuous foil with a drain wire inside the jacket to improve alien crosstalk performance and resist any external noise emitters. The conductor insulation and filler is FEP material with a LSFRPVC jacket. VGS6A™ Category 6A CMP Cable is rated for plenum environments and the nominal cable diameter is 0.27" (6.9mm).

### 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
- The cross filler within the Vericom VGS6A™ Category 6A F/UTP Cable keeps pairs separated and each individual pair twist consistent through the length of the cable reducing crosstalk up to and beyond 500 MHz
- The continuous foil is wrapped around the four conductor pairs to resist alien crosstalk between adjacent cables to ensure maximum performance.
- ANSI/TIA-568.2-D and ISO 11801 Class EA Category 6A ensures interoperability with all standards compliant connectivity.
- 26AWG solid tinned copper drain wire and mylar foil shield with 100% coverage to resist alien crosstalk and external noise emitters
- Reelex™ Pull Box to reduce tangling and improve installation time

### Standards Compliance

- ANSI/TIA-568.2-D
- ISO/IEC 11801 Class EA
- IEC 61156-5
- NFPA 262 (CMP)
- RoHS Compliant
- UL 444
- UL 444 LP-Rating 0.5A & 0.6A
- CSA 22.2 No. 214
- IEEE 802.3bt PoE Type 1 (15.4 Watts) formerly 802.3af, Type 2 (30 Watts) formerly 802.3at, Type 3 (60 Watts), Type 4 (100 Watts)



VGS6A™ Category 6A F/UTP 23 AWG CMP Cable

Ordering Information

Item Number	Description
SP6623P-XX1000FB	23 AWG Copper Cable, F/UTP, CAT6A, 4 Pair, CMP

VERICOM (UL) c(UL) E346149-W TYPE CMP-LP(0.6A) 90° 23 AWG 4P CAT6A FTP TIA-568.2-D ROHS COMPLIANT YYMMDD HH:mm XXXXFT USED/XXXXFT REMAINING  
 Note: YYMMDD HH:mm is date code.

Specify jacket color by substituting **XX** in Item # for the following: **BL** **WH** **YE**  
 Item # Example: SP6623P-BL1000FB - Copper Cable, F/UTP, CAT6A, 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
- Filler Material:** Fluorinated Ethylene Propylene (FEP)
- Ripcord Material:** Polyester Multi-Yarn
- Shield Material:** Mylar Tape
- Drain Wire Material:** 26 AWG Solid Tinned Copper
- Shield Material:** Aluminum Mylar Tape (100% Coverage & Mylar Side Facing Out)
- Jacket Material:** Low Smoke Flame Retardant PVC (LSFRPVC)
- Jacket Color:** Specified within part number

Delay

- Maximum Delay:** 537.6 ns/100m @ 100 MHz
- Maximum Delay Skew:** 45 ns/100m
- Velocity of Propagation:** 66% nom

Physical

- Conductor Diameter:** 0.022 in. (0.56 mm)
- Insulated Conductor Diameter:** 0.043 in. (1.09 mm) max.
- Cable Diameter:** 0.27 in. (6.9 mm)
- Nom. Cable Weight:** 39.33 lb. (17.84 kg)
- Max. Installation Tension:** 25 lb. (110 N)
- Min. Bend Radius:** ≥8 times of overall diameter

Electrical

- Mutual Capacitance:** 5.6 nF/100m max
- DC Resistance:** 9.38 Ω/100m max
- DC Resistance Unbalance:** 4% max
- Capacitance Unbalance Pair-to-Ground:** 330 pF/100m max.

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:** -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	2.08	74.30	72.30	72.22	70.22	67.80	64.80	20.00	570.00	45.00
4	3.80	65.27	63.27	61.47	59.47	55.76	52.76	23.01	552.00	
8	5.31	60.75	58.75	55.44	53.44	49.74	46.74	24.52	546.73	
10	5.93	59.30	57.30	53.37	51.37	47.80	44.80	25.00	545.38	
16	7.49	56.24	54.24	48.75	46.75	43.72	40.72	25.00	543.00	
20	8.38	54.78	52.78	46.41	44.41	41.78	38.78	25.00	542.05	
25	9.38	53.33	51.33	43.95	41.95	39.84	36.84	24.32	541.20	
31.25	10.50	51.88	49.88	41.37	39.37	37.90	34.90	23.64	540.44	
62.5	14.99	47.36	45.36	32.37	30.37	31.88	28.88	21.54	538.55	
100	19.14	44.30	42.30	25.17	23.17	27.80	24.80	20.11	537.60	
150	23.68	41.66	39.66	17.98	15.98	24.28	21.28	18.87	536.94	
200	27.58	39.78	37.78	12.21	10.21	21.78	18.78	18.00	536.55	
250	31.07	38.33	36.33	7.26	5.26	19.84	16.84	17.32	536.28	
300	34.27	37.14	35.14	2.88	0.88	18.26	15.26	16.77	536.08	
350	37.25	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92	
400	40.05	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80	
450	42.71	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70	
500	45.26	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61	

VALUES ABOVE 250 MHZ ARE FOR INFORMATION ONLY. TECHNICAL SHEETS ARE SUBJECT TO CHANGE WITHOUT NOTICE. REV.20231207.5