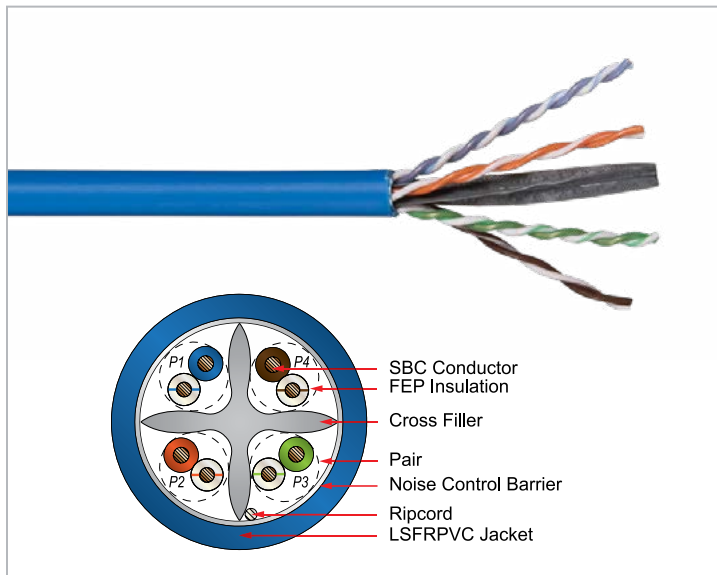




VGS6A™ Category 6A UTP 23 AWG CMP Cable



Applications

The Vericom VGS6A™ Category 6A Cable supports 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). 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 Cable is designed to meet and exceed ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E electrical performance requirements for frequencies up to 500 MHz. The 1000ft Reelex™ pull box of cable is constructed with 23AWG solid conductors in a four pair configuration, separated with an integral cross filler, and surrounded by a non-continuous foil inside the jacket to improve alien crosstalk performance. The conductor insulation and filler is FEP material with a PVC jacket. VGS6A™ Category 6A CMP Cable is rated for plenum spaces and the nominal cable diameter is 0.26" (6.7mm).

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 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 AXP™ non-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 E Category 6A ensures interoperability with all standards compliant connectivity.
- UL LP Listing ensures 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
- EN 50399
- IEC 61156-5
- RoHS Compliant
- UL 444 LP-Rating 0.6A for PoE
- 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 UTP 23 AWG CMP Cable

Ordering Information

Cable Marking

Item Number	Description	
SP6613P-XX1000FB	23 AWG Copper Cable, U/UTP, CAT6A, 4 Pair, CMP	VERICOM (UL) c(UL) E346149-W TYPE CMP-LP(0.6A) 90° 23 AWG 4P CAT6A UTP 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 BK GN GY IV WH YE

Item # Example: SP6613P-BL1000FB - Copper Cable, UTP, CAT6A, 4 Pair, CMP Rated, Blue, 1000 ft Pull Box

Construction

- Conductor Material:** 23 AWG Solid Bar 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
- Barrier:** Noise Control Barrier
- 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:** 70.8% nom

Physical

- Conductor Diameter:** 0.022 in. (0.56 mm)
- Insulated Conductor Diameter:** 0.042 in. (1.09 mm) max.
- Cable Diameter:** 0.263 in. (6.7 mm)
- Nom. Cable Weight:** 36.86 lb. (16.72 kg)
- Max. Installation Tension:** 25 lb. (110 N)
- Min. Bend Radius:** ≥4 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.

Voltage

UL Voltage Rating: 300 V (CMP), 300 V (CL3P)

Temperature

- UL Rating:** 90°C
- Operating:** -4 °F to 140 °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	2.08	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	
550	47.70	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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