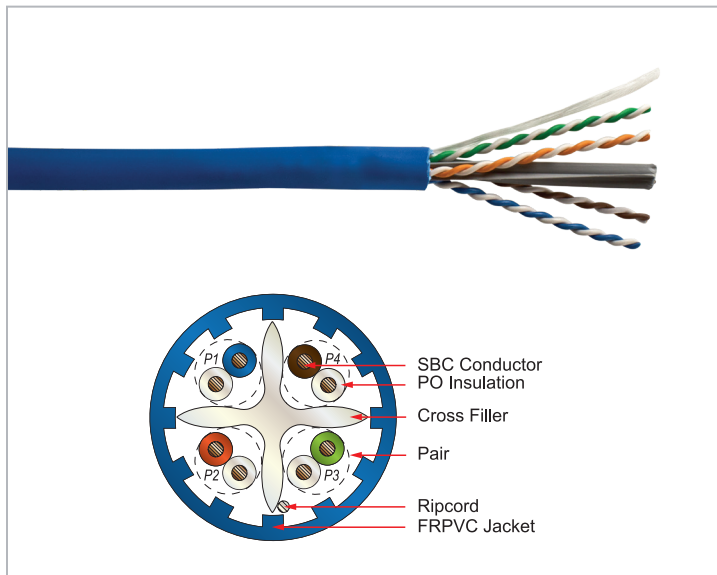




Cat 6A, 4 Pair, 23 AWG, Riser Rated Cable



Features & Benefits

- The cross filler within the Vericom Category 6A Cable keeps pairs separated and pair twist consistent through the length of the cable reducing crosstalk up to and beyond 500 MHz
- Vericom is tested to 650 MHz to ensure consistent, repeatable performance within the existing standards as well as any future requirements for Category 6A cables.
- ANSI/TIA-568.2-D and ISO 11801 Class E Category 6A ensures interoperability with all standards compliant connectivity.
- Cost-effective solution for future-proofing networks

Applications

The Vericom Category 6A Cable supports 10GBASE-T Ethernet up to 100 meters per the standard, 1000BASE-T (Gigabit Ethernet), 100BASE-T (Fast Ethernet), 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM, CDDI, ATM, Token Ring, Digital video and broadband/baseband analog video, Voice over Internet Protocol (VoIP). Category 6A is backwards compatible with CAT6 and Category 5e systems as well as IEEE 802.3af/802.3af and 802.3at for PoE applications.

Description / Specifications

Vericom Category 6A Riser 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 and is sweep tested up to 650MHz. The 1000ft spool of cable is constructed with 23AWG solid conductors in a four pair configuration, separated with an integral cross filler to reduce crosstalk to provide maximum system performance. Vericom Category 6A CMR Cable has a nominal cable diameter of 0.33" (8.3mm), is rated for non-plenum spaces.

Standards Compliance

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- EN 50173-1 Class EA
- IEC 61156-5
- UL 1666 (CMR)
- UL 444
- CSA 22.2 NO.214
- RoHS Compliant
- IEEE 802.3af formerly 802.3at

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Cat 6A, 4 Pair, 23 AWG, Riser Rated Cable

Ordering Information

Description		Packaging	VERICOM E346149 W 23 AWG 4P 75° C C(UL)US CMR RoHS COMPLIANT YYMMDD HH:mm --- ETL VERIFIED TO TIA-568.2-D CAT6A XXXXFT USED / XXXXFT REMAINING <i>Note: YYMMDD HH:mm is date code.</i>
Copper Cable, U/UTP, CAT6A, 4 Pair, CMR		1,000 ft Spool	
Item No. Prefix	Item No. Suffix	Color	Item # Example: MBW6A-04378 - Copper Cable, U/UTP, CAT6A, 4 Pair, CMR Rated, Blue, 1,000 ft Spool
MBW6A-	04378	Blue	
	04379	White	

Cable Marking

Construction

- Conductor Material:** 23 AWG Solid Bare Copper
- Insulation Material:** Polyolefin (PO)
- Color Code :** BL & WH, OR & WH, GN & WH, BR & WH
- Filler Material:** Polyolefin (PO)
- Ripcord Material:** Polyester Multi-Yarn
- Jacket Material:** Flame Retardant PVC Compound (FRPVC)
- Jacket Color:** Specied By Item Number

Delay

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

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

Physical

- Conductor Diameter:** 0.023 in. (0.58 mm)
- Insulated Conductor Diameter:** 0.043 in. (1.10 mm)
- Cable Diameter:** 0.33 in. (8.3 mm)
- Nom. Cable Weight:** 46.76 lb. (21.21 kg)
- Max. Installation Tension:** 25 lb. (110 N)
- Min. Bend Radius:** ≥ 4 times of overall diameter

Voltage

- UL Voltage Rating:** 300 V (CMR)

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)

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	3107	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	
600	50.05	32.63	30.63	N.A.	N.A.	12.24	9.24	14.66	535.47	
650	52.33	32.11	30.11	N.A.	N.A.	11.54	8.54	14.42	535.41	

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

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