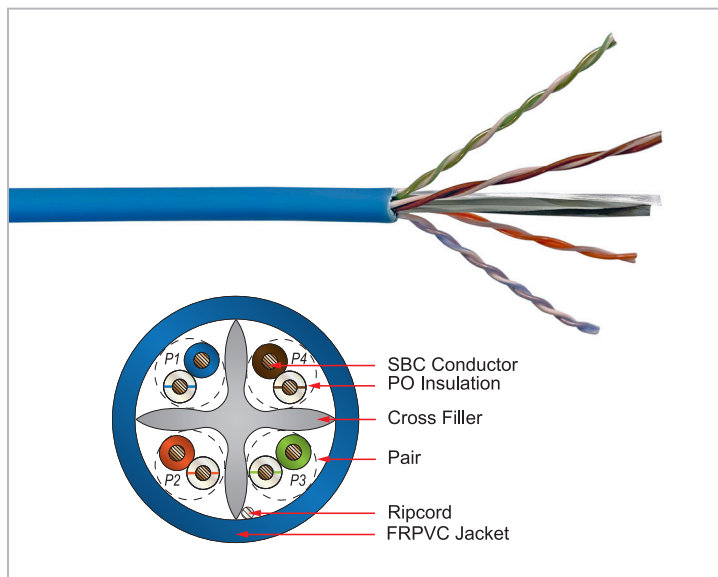




## Cat 6, 4 Pair, 23 AWG, Riser Rated Cable



### Applications

The Vericom 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 and 802.3bt for PoE applications.

### Description / Specifications

Vericom Category 6 Riser 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 pull box of cable is constructed with 23 AWG solid conductors in a four pair configuration, separated with an integral cross filler to reduce crosstalk to provide maximum system performance. Vericom Category 6 CMR Cable has a nominal cable diameter of 0.228" (5.8mm), is rated for non-plenum spaces.

### 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 Category 6 Cable keeps pairs separated and pair twist consistent through the length of the cable reducing crosstalk up to and beyond 250 MHz
- Vericom 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.

### Standards Compliance

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- EN 50173-1 Class EA
- IEC 61156-5
- UL 1666 (CMR)
- UL 444
- RoHS Compliant
- IEEE 802.3bt formerly 802.3at

REV.20201008.9



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

### Ordering Information

Description				Packaging	
Copper Cable, U/UTP, CAT6, 4 Pair, CMR				1,000 ft Pull Box	
Item No. Prefix	Item Suffix / Color	Item Suffix / Color	Item Suffix / Color	Item Suffix / Color	Item Suffix / Color
MBW6U-	03667	Black	03628	Green	01444 White
	00934	Blue	04702	Orange	01445 Yellow
	01623	Gray	04481	Red	

VERICOM (UL) c(UL) E346149-W TYPE CMR 75° 23 AWG 4P CAT6 UTP TIA-568.2-D ROHS COMPLIANT YYMMDD HH:mm XXXXFT USED/ XXXXFT REMAINING

Note: YYMMDD HH:mm is date code.

Item # Example: MBW6U-00934 - Copper Cable, U/UTP, CAT6, 4 Pair, CMR Rated, Blue, 1,000 ft Pull Box

### Cable Marking

### Construction

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

### Voltage

- UL Voltage Rating:** 300 V (CMR), 300 V (CL3R)

### Transmission Performance (at 20 °C)

Freq. (MHz)	IL Max. (dB/100m)	NEXT Min. (dB)	PSNEXT (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	

### Delay

- Maximum Delay:** 537.6 ns/100m @ 100 MHz
- Maximum Delay Skew:** 45 ns/100m
- Velocity of Propagation:** 70.2% nom

### Physical

- Conductor Diameter:** 0.022 in. (0.56 mm)
- Insulated Conductor Diameter:** 0.037 in. (0.94 mm)
- Cable Diameter:** 0.228 in. (5.8 mm)
- Nom. Cable Weight:** 26.6 lb. (12.1 kg)
- Max. Installation Tension:** 25 lb. (110 N)
- Min. Bend Radius:** ≥ 4 times of overall diameter

### 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)