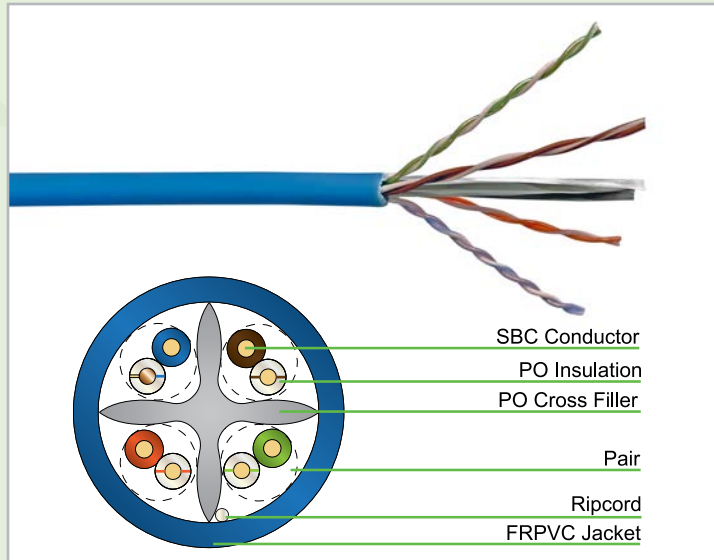


VGC™ Category 6 23 AWG U/UTP Riser Cable



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
- 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.

Applications

Vericom Category 6 Riser Rated Indoor Cable is designed to deliver reliable performance across a wide range of applications. It supports 10GBASE-T Ethernet (within the distance limitations defined by the standard), 1000BASE-T Gigabit Ethernet, 100BASE-T Fast Ethernet, as well as 155 Mb/s, 622 Mb/s, and 1.2 Gb/s ATM networks. In addition, it is well-suited for digital video, broadband and baseband analog video, and Voice over Internet Protocol (VoIP) services in both commercial and residential environments.

For added versatility, Category 6 cabling is fully backward compatible with existing Category 5e systems, ensuring seamless integration into legacy infrastructures while providing enhanced performance for modern networking demands.

Description / Specifications

Vericom Category 6 Unshielded Riser Cable is engineered to meet and exceed ANSI/TIA-568.2-D Category 6 and ISO/IEC 11801 Class E performance standards, supporting frequencies up to 250 MHz. Supplied in a 1,000-foot pull box, this cable features 23 AWG solid copper conductors, in precision-engineered differential twisted pairs separated by an integral cross filler to minimize crosstalk and ensure optimal system performance.

The Vericom Category 6 Unshielded CMR Cable has a nominal diameter of 0.228 inches (5.8 mm) and is specifically rated for use in non-plenum spaces, providing a reliable solution for demanding structured cabling installations.

Standards Compliance

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

VGC™ Category 6 23 AWG U/UTP Riser Cable

Ordering Information

Description				Packaging
Copper Cable, U/UTP, CAT6, 4Pair, CMR				1000 FT Pull Box
Black	Blue	Gray	Green	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.
MBW6U-03667	MBW6U-00934	MBW6U-01623	MBW6U-03628	
Orange	Red	White	Yellow	
MBW6U-04702	MBW6U-04481	MBW6U-01444	MBW6U-01445	

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

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 & Shipping:** -4 °F to 167 °F (-20 °C to 75°C)

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

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 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.

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REV.20260426.12