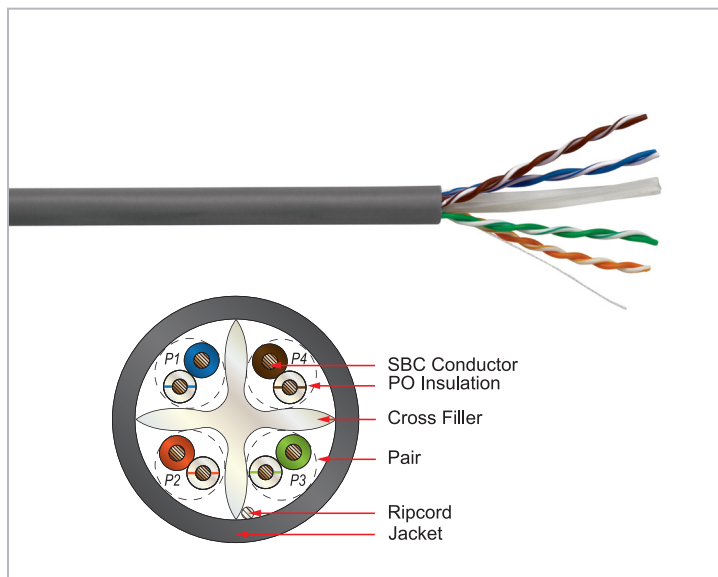




## Cat 6, 4 Pair, 23 AWG, Indoor/Outdoor Cable



### Applications

Vericom Category 6 Indoor/Outdoor cable supports 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) and is backwards compatible with Category 5e systems. Compatible with PoE, PoE+, and PoE++.

Category 6 Cable (550 MHz), Indoor/Outdoor, 4 Pair, 23 AWG Solid Bare Copper Conductors, U/UTP, Riser-CMR/CMX Outdoor, UV Resistant PVC Jacket.

### Description / Specifications

Vericom Category 6 CMR/CMX Indoor/Outdoor cable is designed to meet and exceed ANSI/TIA Category 6 standards and ISO 11801 Class E electrical performance requirements for frequencies up to 250 MHz. The cable utilizes 23 AWG solid conductors in a four pair unshielded configuration rated for both CMR and CMX. This indoor/outdoor cable jacket is also UV Resistant and is cold bend impact tested at  $-40^{\circ}\text{C}$  per UL 444.

### Features & Benefits

- UL 444 Severe Cold Impact ensures cable will perform in the most extreme cold weather applications
- UL Listed and RoHS compliant to ensure safety requirements are met
- The cross filler within this 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
- UV Resistant CMR/CMX jacket for outdoor applications in direct sunlight
- Tough, abrasion resistant cable to stand up to outdoor installation requirements
- Tested to 550 MHz to ensure consistent, repeatable performance within the existing standards as well as any future requirements for Category 6 cables
- Pull box packaging for easy installation and storage

### Standards Compliance

- TIA/EIA-568.2-D
- ISO/IEC 11801
- UL 1666 (CMR)
- UL 2556 (CMX)
- UL 444 Sunlight Resistant
- UL 444 Cold Impact Test Under  $-40^{\circ}\text{C}$
- GR-3164 Severe Cold Impact
- ANSI/TIA-1096-A (formerly FCC Part 68)
- RoHS Compliant
- Supports 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



## Cat 6, 4 Pair, 23 AWG, Indoor/Outdoor Cable

### Ordering Information

Description		Packaging	
23 AWG Copper Cable, U/UTP, CAT6, 4 Pair, CMR w/ CMX		1,000 ft Pull Box	
Item # Prefix	ARX6U-		
Color	White	Ivory	Gray
Item # Suffix	04564	04565	04566

VERICOM (UL) C(UL) E346149-W TYPE CMX-OUTDOOR-CMR 75°C 23AWG 4P CAT6 UTP TIA-568.2-D ROHS COMPLIANT 0000FT USED / 1000FT REMAINING

Note: YYMMDD HH:mm is date code.

Item # Example: ARX6U-04566 Copper Cable, UTP, CAT6, 4 Pair, CMR w/ CMX Rated, Gray, 1000 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

**Jacket Material:** UV Resistant, Flame Retardant PVC Compound

**Jacket Dimensions:** Nominal Diameter 0.24 in. (6.1 mm)

**Jacket Color:** Specied By Item Number

### Mechanical

**Maximum Pulling Tension:** 25 lbs. (110 N)

**Minimum Bend Radius:** ≥ 4 times of overall diameter

### Electrical

**Pair-to-Ground Capacitance Unbalance:** 330 (pF/100M)

**DC Resistance Unbalance:** ≤ 5%

**Insulation Resistance:** >5000MΩ / 1 Km

**DC Resistance 20 °C:** 9.38 Ω / 100m

**Electrical Mutual Capacitance:** 5.6 nF/100m max

### Environmental Conditions

**Cold Bend Test:** -40 °C 4 Hours No Cracking

**Installation Temperature:** -13 °F to 140 °F (-25 °C to 60 °C)

**Operating Temperature:** -40 °F to 140 °F (-40 °C to 60 °C)

**Storage & Shipping Temperature:** -40 °F to 167 °F (-40 °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	2.03	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	