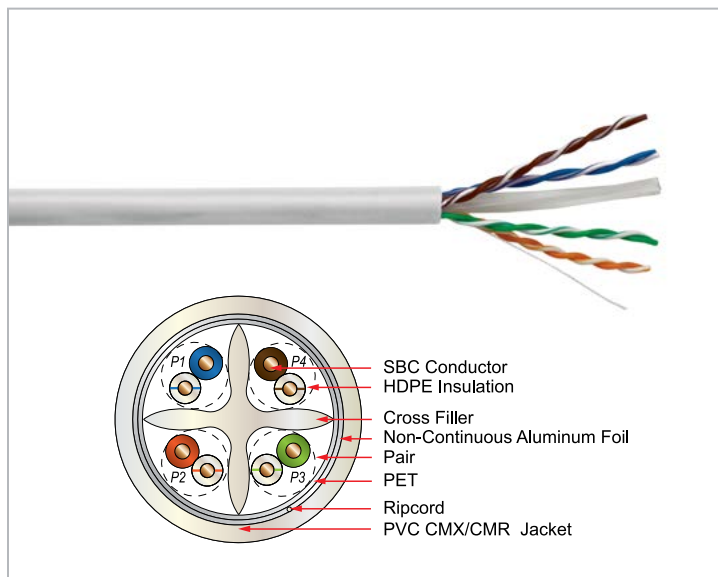




VGS6A™ Cat 6A, 4 Pair, 23 AWG, Indoor/Outdoor Cable



Applications

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

Description / Specifications

Vericom Category 6A CMR/CMX Indoor/Outdoor cable is designed to meet and exceed ANSI/TIA Category 6A standards and ISO 11801 Class E electrical performance requirements for frequencies up to 500 MHz. The cable utilizes 23 AWG solid conductors in a four pair unshielded configuration rated for both CMR and CMX. The cable jacket is a UV Resistant PVC Jacket and incorporates a non-continuous Aluminum Foil. The cable construction incorporates a cross filler and a rip cord.

Features & Benefits

- Non-continuous Aluminum Foil can be used with UTP connectivity while managing Alien Cross Talk that can occur at higher frequencies used for Category 6A
- The cross filler within this 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.
- UV Resistant CMR/CMX jacket for outdoor applications in direct sunlight
- Tough, abrasion resistant cable to stand up to outdoor installation requirements
- Rip cord to aid cable jacket preparation for field termination
- Reel-in-box packaging for easy installation and storage
- Reverse sequential footage markings to easily identify the length of remaining cable
- 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

Standards Compliance

- TIA/EIA-568.2-D
- ISO/IEC 2nd Edition 11801 Class EA
- IEC 61156-5 for LAN Cable
- UL Listed CMX-Outdoor/CMR
- UL Verified to UL Subject 444
- RoHS Compliant
- EU Directive 2011/65/EU
- Supports IEEE 802.3bt for PoE applications



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Ordering Information

Cable Marking

Description			VERICOM C(UL)US E476116 TYPE CMX OUTDOOR/CMR 75° 23AWG 4P CAT6A U/UTP TIA-568.2-D ROHS COMPLIANT 0000FT USED / 1000FT REMAINING Note: YYMMDD HH:mm is date code.
23 AWG Copper Cable, U/UTP, CAT6A, 4 Pair, CMR w/ CMX			
Item #	Color	Packaging	
MBW6A-12567	White	1,000 ft Pull Box	

Construction

Conductor Material: 23 AWG Solid Bare Copper
Insulation Material: High Density Polyethylene (HDPE)
Color Code : BL & WH/BL, OR & WH/OR, GN & WH/GN, BR & WH/BR

Jacket Material: PVC 70 Degree CMX- Outdoor/CMR
Jacket Dimensions: Nominal Diameter 0.29 in. (7.5 mm)
Jacket Color: White

Mechanical

Maximum Pulling Tension: 22.5 lbs. (100 N)

Minimum Bend Radius: ≥ 8 times of overall diameter

Electrical

Pair-to-Ground Capacitance Unbalance: 330 (pF/100M)
DC Resistance Unbalance: Max 2%
Insulation Resistance: >5000MΩ / 1 Km

DC Resistance 20 °C: 9.38 Ω / 100m
Electrical Mutual Capacitance: 5600 pF/100m
Operating Voltage: Max 300V

Environmental Conditions

Cold Bend Test: -20°C 8 x OD 4 Hours No Cracking
Installation Temperature: 32 °F to 122 °F (0 °C to 50 °C)

Operating Temperature: 5 °F to 140 °F (-15 °C to 60 °C)
Storage & Shipping Temperature: 5 °F to 140 °F (-15 °C to 60 °C)

Transmission Performance (at 20 °C)

Freq. (MHz)	Attenuation (dB/100m)	NEXTA (dB)	Characteristic Impedance	PSNEXTA (dB)	PS ANEXT (dB/100m)	PS AACRF (dB/100m)	RL Min. (dB/100m)	DOP Max. (NS/100m)	Delay Skew Max. (NS/100m)
1	2.1	74.3	100 ± 15	72.3	67	67	20	552	45
4	3.8	65.3	100 ± 15	63.3	67	66.2	23	547	
10	5.9	59.3	100 ± 15	57.3	67	58.2	25	545	
16	7.5	56.2	100 ± 15	54.2	67	54.1	25	543	
20	8.4	54.8	100 ± 15	52.8	67	52.2	25	542	
31.25	10.5	51.9	100 ± 15	49.9	67	48.3	23.6	541	
62.5	15.0	47.4	100 ± 15	45.4	65.6	42.3	21.5	540	
100	19.1	44.3	100 ± 15	42.3	62.5	38.2	20.1	539	
200	27.6	39.8	100 ± 22	37.8	58	32.2	18	538	
250	31.1	38.3	100 ± 22	36.3	56.5	30.2	17.3	537	
500	45.3	33.8	100 ± 25	31.8	52.0	24.2	15.2	535	