

**PRODUCT SPECIFICATIONS**  
PLENUM CAT6A U/UTP 650 MHz

**COMPLIANCE**

RoHS	UL c(UL) Listed	CE	ETL Verified
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**CERTIFICATIONS**

ANSI/TIA-568-C.2	ISO/IEC 11801
IEC 61156-5	NFPA 262
UL 444	CSA 22.2 NO.214
EU Directive 2011/65/EC	EU Directive 2006/95/EC

**PHYSICAL SPECIFICATIONS**

Cable Construction	23 AWG U/UTP x 4P
Conductor Material	Solid Bare Copper
Insulating Material Type	FEP
Insulation Diameter	1.09 ± 0.02 mm
Filler Material	FEP
Number of Insulations	4 Pair
<b>PAIR COLORS</b>	P1 White- Blue/ Blue P2 White- Orange/ Orange P3 White- Green/ Green P4 White- Brown/ Brown
Jacket Material	LSFRPVC
Jacket Diameter	8.1 ± 0.2 mm
Jacket Flame Rate	CMP
Rip Cord	Polyester multi-yarn

**ELECTRICAL CHARACTERISTICS**

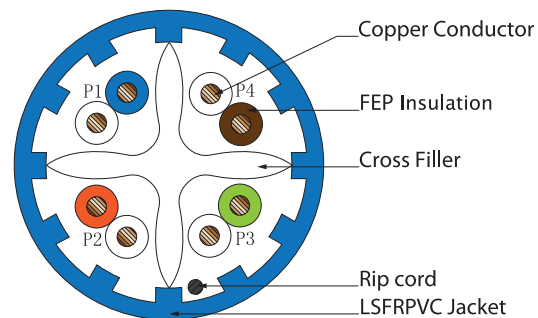
Impedance	4-250 MHz 103 ± 20Ω 250-500 MHz 103 ± 25Ω 500-650 MHz 103 ± 35Ω
Temperature rating	75° C
Voltage rating	300 V
Mutual capacitance	≤ 5.6 nF/ 100m
DC Resistance	≤ 9.38 Ω / 100m
DC Resistance unbalance of a pair	≤ 4%
Propagation Delay Skew	45 nS / 100m
Capacitance unbalance pair-to-ground	≤ 330 pF/ 100m
Nominal Velocity of Propagation	70%

**NOMINAL TRANSMISSION CHARACTERISTICS**

FREQUENCY (MHz)	RETURN LOSS MAX. (dB/100m)	ATTENUATION MIN. (dB/100m)	NEXT MIN. (dB/100m)	PSNEXT MIN. (dB/100m)
1	20.00	2.08	78.30	76.30
4	23.01	3.08	69.27	67.27
8	24.52	5.31	64.75	62.75
10	25.00	5.93	63.30	61.30
16	25.00	7.49	60.24	58.24
20	25.00	8.38	58.78	56.78
25	24.32	9.38	57.33	55.33
31.25	23.64	10.50	55.88	53.88
62.5	21.54	14.99	51.36	49.36
100	20.11	19.14	48.30	46.30
150	18.87	23.68	45.66	43.66
200	18.00	27.58	43.78	41.78
250	17.32	31.07	42.33	40.33
300	16.77	34.27	41.14	39.14
350	16.30	37.25	40.14	38.14
400	15.89	40.05	39.27	37.27
450	15.53	42.71	38.50	36.50
500	15.21	45.26	37.82	35.82
550	14.92	47.70	37.19	35.19
600	14.66	50.05	36.63	34.63
650	14.42	52.33	36.11	34.11

NOTE: The above transmission performance for the 100m, 20±2 °C under the conditions tested

PART NUMBER	CABLE TYPE	COLOR	LENGTH
MBW6A-04380	CMP	Blue	1000 ft. Spool



**CABLE MARKING**

VERICOM E346149 W 23AWG 4P 75 ° C (UL)US CMP RoHS COMPLIANT  
YYMMDD hh:mm --- ETL VERIFIED TO TIA-568-C.2 CAT6A xxxxFT USED /  
xxxxFT REMAINING

NOTE: TECHNICAL SPECS AND IMAGES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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