

**PRODUCT SPECIFICATIONS**  
PLENUM CAT6 U/UTP 550 MHz

**COMPLIANCE**

RoHS	UL Listed	c(UL) Listed
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**CERTIFICATIONS**

ANSI/TIA-568-C.2	ISO/IEC 11801
NEMA WC 63.1	NFPA 262
UL 444	

**PHYSICAL SPECIFICATIONS**

Cable Construction	23 AWG U/UTP x 4P	
Conductor Material	Solid Bare Copper	
Insulating Material Type	FEP	
Insulation Diameter	0.96 ± 0.005 mm	
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	0.236 ± 0.008 mm	
Jacket Flame Rate	CMP	
Rip Cord	Polyester multi-yarn	

**ELECTRICAL CHARACTERISTICS**

Impedance	1-550 MHz 100 ± 15 Ω
Temperature rating	75° C
Voltage rating	300 V
Mutual capacitance	≤ 56 nF/ 1000ft
DC Resistance	≤ 28.6 Ω / 1000ft
DC Resistance unbalance of a pair	5% max
Propagation Delay Skew	25 nS / 100M
Capacitance unbalance pair-to-ground	≤ 330 pF/ Km max
Nominal Velocity of Propagation	66% - 70%

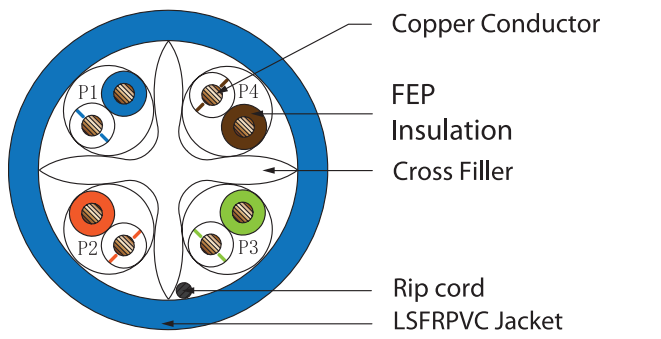
<b>ATTENUATION TO CROSSTALK RATIO</b>	@100 MHz	25.5 dB / min
	@155 MHz	18.4 dB / min
	@250 MHz	7.5 dB / min

**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	2.0	84.3	82.3
4	23.60	3.7	75.3	73.3
8	25.40	5.2	70.8	68.8
10	26.00	5.9	69.3	67.3
16	26.00	7.4	66.2	64.2
20	26.00	8.3	64.8	62.8
31.25	25.00	10.4	61.9	59.9
62.5	23.50	14.9	57.4	55.4
100	22.50	19.1	54.3	52.3
155	21.60	24.1	51.4	49.4
200	21.00	27.7	49.8	47.8
250	20.50	31.2	48.3	46.3
300	20.10	34.5	47.0	45.0
400	19.50	40.4	46.4	44.4
450	19.20	43.1	46.1	44.1
500	19.00	45.8	45.8	43.8
550	18.80	48.3	45.2	43.5

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

PART NUMBER	CABLE TYPE	COLOR	LENGTH
MBW6U-02402	CMP	Blue	1000 ft. pullbox
MBW6U-04221	CMP	Gray	1000 ft. pullbox
MBW6U-02403	CMP	White	1000 ft. pullbox
MBW6U-03680	CMP	Yellow	1000 ft. pullbox



**CABLE MARKING**

VERICOM E346149 W 23 AWG 4P 75° C c(UL)us CMP ROHS COMPLIANT  
YYMMDD 00:00 ---- ETL VERIFIED TO TIA-568-C.2 CAT6 0000FT USED / 1000FT REMAINING

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

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