

PRODUCT SPECIFICATIONS
PLENUM CAT6 U/UTP 550 MHz

COMPLIANCE

RoHS	c(UL)us Listed
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CERTIFICATIONS

ANSI / TIA 568-C.2 Category 6	
ISO/IEC 11801	NEMA WC 63.1
UL444	NFPA 262

PHYSICAL SPECIFICATIONS

Cable Construction	23 AWG U/UTP x 4P	
Conductor Material	Solid Bare Copper	
Cross Filler	Yes	
Insulating Material Type	FEP	
Insulation Diameter	≈ 0.96 mm	
Number of Insulations	4 Pair	
PAIR COLORS	P1	White- Blue/ Blue
	P2	White- Orange/ Orange
	P3	White- Green/ Green
	P4	White- Brown/ Brown
Jacket Material	LSFRPVC	
Jacket Diameter	≈ 6.0 mm	
Jacket Avg. Thickness	≈ 0.5 mm	
Jacket Flame Rate	CMP	
Rip Cord	Yes	

ELECTRICAL CHARACTERISTICS

Impedance	1-550 MHz 100±15 Ω	
Overall Temp. Rating	75° C	
Voltage Rating	300 V	
Mutual Capacitance	≤ 56 nF/ 1000 ft	
DC Resistance @ 20°C	≤ 28.6 Ω / 1000 ft	
DC Resistance Unbalance of a pair	Max. 5%	
Propagation Delay Skew	25 nS / 100M	
Pair-to-Ground Capacitance Unbalance	330 (pF/100M)	
Nominal Velocity of Propagation	66% - 70%	
Attenuation to Crosstalk Ratio	@100 MHz	25.5 dB / min
	@155 MHz	18.4 dB / min
	@250 MHz	7.5 dB / min

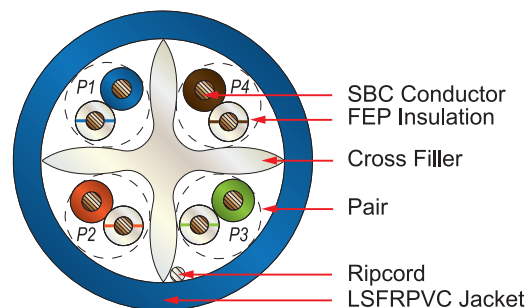
NOMINAL TRANSMISSION CHARACTERISTICS

FREQUENCY (MHz)	RETURN LOSS (dB)	ATTENUATION (dB/100M)	NEXT (dB)	PSNEXT (dB)
1	20	2.0	84.3	82.3
4	23.6	3.7	75.3	73.3
8	25.4	5.2	70.8	68.8
10	26	5.9	69.3	67.3
16	26	7.4	66.2	64.2
20	26	8.3	64.8	62.8
31.25	25	10.4	61.9	59.9
62.5	23.5	14.9	57.4	55.4
100	22.5	19.1	54.3	52.3
155	21.6	24.1	51.4	49.4
200	21	27.7	49.8	47.8
250	20.5	31.2	48.3	46.3
300	20.1	34.5	47.0	45.0
400	19.5	40.4	46.4	44.4
450	19.2	43.1	46.1	44.1
500	19	45.8	45.8	43.8
550	18.8	48.3	45.2	43.5

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

ITEM # JACKET TYPE AVAILABLE COLOR AVAILABLE PUT-UPS

MBW6U-02402	CMP	Blue	1000 ft. Pull Box
MBW6U-04221	CMP	Gray	1000 ft. Pull Box
MBW6U-02403	CMP	White	1000 ft. Pull Box
MBW6U-03680	CMP	Yellow	1000 ft. Pull Box



CABLE MARKING

VERICOM VERIMAX (UL) C(UL) E346149 C TYPE CMP 75° C 23AWG 4P ROHS COMPLIANT CAT6U/UTP 550MHz TIA-568-C.2 0000FT USED/1000FT REMAINING

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

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