

**PRODUCT SPECIFICATIONS**  
CAT6 DIRECT BURIAL GEL FILLED CMX U/UTP 550 MHz

**COMPLIANCE**

RoHS

**CERTIFICATIONS**

TIA 568-C.2 Category 6      ISO/IEC 11801

**PHYSICAL SPECIFICATIONS**

Cable Construction	23 AWG U/UTP x 4P
Conductor Material	Solid Bare Copper
Cross Filler	Yes
Insulating Material Type	HDPE
Insulation Diameter	≈ 1.06 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	LDPE
Jacket Diameter	≈ 6.9 mm
Jacket Avg. Thickness	≈ 0.6 mm
Jacket Flame Rate	CMX
Jacket Resistance	UV Resistant
Rip Cord	Yes

**MECHANICAL CHARACTERISTICS**

Cable under the minimum tension	≥ 400N
Conductor Elongation	≥ 15%

**JACKET**

Unaged	Tensile Strength	≥ 9.7 Mpa
	Elongation	≥ 350%
Aged	Tensile Strength	≥ 7.3 Mpa
	Elongation	≥ 263%

**ELECTRICAL CHARACTERISTICS**

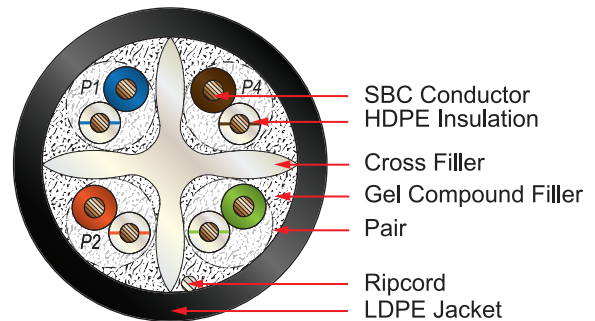
Impedance	1-250 MHz 100±15 (Ohms)
Overall Temp. Rating	75° C
Voltage Rating	300 V
DC Resistance Unbalance	Max. 2.5%
DC Resistance 20° C	87 (Ohms/Km)
Pair-to-Ground Capacitance Unbalance	330 (pF/100M)
Insulation Resistance	>5000MΩ*Km
Dielectric Strength	DC 2500V 2S

**NOMINAL TRANSMISSION CHARACTERISTICS**

FREQUENCY (MHz)	RETURN LOSS (dB)	ATTENUATION (dB/100M)	NEXT (dB)	PSNEXT (dB)
1	20	2.0	74	72
4	23	3.8	65	63
10	25	6.0	59	57
16	25	7.6	56	54
20	25	8.5	55	53
31.25	23.6	10.7	52	50
62.5	21.5	15.4	47	45
100	20.1	19.8	44.3	42.3
200	18	29.0	39.7	37.7
250	17.3	32.8	38	36
300	17.3	36.61	38.14	35.14
350	17.3	39.98	37.14	34.14
400	17.3	43.17	35.3	33.3
450	17.3	46.22	35.14	32.65
500	17.3	49.16	34.82	31.82
550	17.3	51.40	33.97	31.07

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

ITEM #	JACKET TYPE	AVAILABLE COLOR	AVAILABLE PUT-UPS
MBW6U-03676	CMX	Black	1000 ft. Spool



**CABLE MARKING**

VERICOM VERIMAX 23 AWG 4P 75° C CAT6 U/UTP GEL FILLED TIA-568-C.2  
ROHS COMPLIANT 0000FT USED / 0000FT REMAINING

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

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