

PRODUCT SPECIFICATIONS

CAT5E INDOOR/OUTDOOR U/UTP CMX

COMPLIANCE

RoHS	YES	UL Listed	YES
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CERTIFICATIONS

EIA/TIA 568-B.2	ISO/IEC 11801
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PHYSICAL SPECIFICATIONS

Conductor Material	Solid Bare Copper
Conductor Size	24 AWG
Insulating Material Type	HDPE
Insulation Diameter	Ø 0.88 ± 0.05 mm
Insulation Avg. Thickness	0.20 ± 0.05 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	PVC
Jacket Diameter	Ø 4.8 ± 0.2 mm
Jacket Avg. Thickness	0.5 ± 0.1 mm
Jacket Flame Rate	CMX
Rip Cord	Nylon

MECHANICAL CHARACTERISTICS

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

JACKET

Unaged	Tensile Strength	≥ 13.5 Mpa
	Elongation	≥ 150%
Aged	Tensile Strength	≥ 12.5 Mpa
	Elongation	≥ 125%

ELECTRICAL CHARACTERISTICS

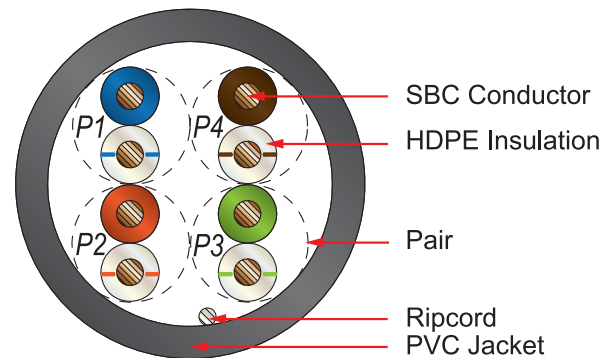
Impedance	1-350 MHz 100±15 (Ohms)
Overall Temp. Rating	75° C
DC Resistance Unbalance	Max. 2.5%
DC Resistance 20° C	120 (Ohms/Km)
Pair-to-Ground Capacitance Unbalance	330 (pF/100M)
Insulation Resistance	>5000MΩ*Km
Dielectric Strength	DC 2500V 2s

NOMINAL TRANSMISSION CHARACTERISTICS

FREQUENCY (MHz)	RETURN LOSS (dB)	ATTENUATION (dB/100M)	DELAY (NS)	NEXT (dB)	PSNEXT (dB)
1	20.0	2.0	570	65	62
4	23.0	4.1	552	56	53
10	25.0	6.5	545	50	47
16	25.0	8.2	543	47	44
20	25.0	9.3	542	46	43
31.25	23.6	11.7	540	43	40
62.5	21.5	17.0	538	38	35
100	20.1	22.0	537	35	32
200	18.92	32.42	537.02	30.78	27.78
250	17.60	36.85	536.28	29.33	26.33
350	16.30	44.85	535.92	27.14	24.14

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

PART NUMBER	CABLE TYPE	COLOR	LENGTH
MBW5U-03576	CMX	Gray	1000 ft. pullbox
MBW5U-04015	CMX	Black	1000 ft. pullbox



CABLE MARKING

VERICOM VERIMAX (UL) C(UL) E346149 TYPE CMX 75' 24AWG 4P CAT5E UTP TIA-568-C.2 ROHS COMPLIANT 0000FT USED / 1000FT REMAINING