

PRODUCT SPECIFICATIONS
RISER 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	UL 444
UL1666	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	PO
Insulation Diameter	1.135 ± 0.02 mm
Filler Material	PO
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	FRPVC
Jacket Diameter	8.3 ± 0.2 mm
Jacket Flame Rate	CMR
Rip Cord	Polyester multi-yarn

ELECTRICAL CHARACTERISTICS

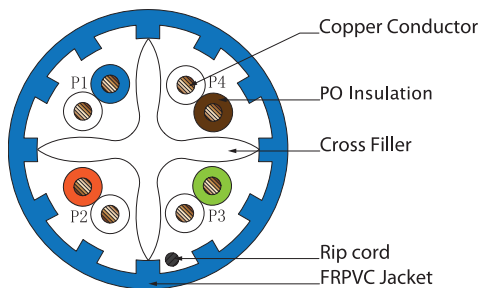
Impedance	4-250 MHz 103±20Ω 250-500 MHz 103±25Ω 500-650 MHz 103±35Ω
Temperature rating	75° C
Voltage rating	300 V
Mutual capacitance	≤ 5.6 nF/ 100m
DC Resistance	≤ 9.38 Ω / 100m
DC Resistance unbalance of a pair	≤ 4%
Propagation Delay Skew	45 nS / 100m
Capacitance unbalance pair-to-ground	≤ 330 pF/ 100m
Nominal Velocity of Propagation	66%

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	3.80	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-04378	CMR	Blue	1000 ft. Spool
MBW6A-04379	CMR	White	1000 ft. Spool



CABLE MARKING

VERICOM E346149 W 23AWG 4P 75 ° C (UL)US CMR 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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