

CATEGORY 6 CABLE (CAT.6 UTP)



PART NUMBER: MGCU64001
DESCRIPTION: 23 AWG/ 4Pairs category 6 UTP cable
Number of Conductors: 4Pairs
APPLICABLE STANDARD: ANSI/TIA/EIA 568B/C.2
UL AWM Style: UL2835

Construction Parameters :

Conductor: 23 AWG(1/ 0.56mm) solid bare copper
Insulation Material: HDPE
Nom. Insulation Thickness: 0.19mm
Insulated Conductor Diameter: 1.00mm
Pair Lays: Each pair has different lay length for cross-talk prevention
Filler: 300D fiber (4.8*4.8mm Cross-web separator)
Jacket Material: PVC
Jacket Thickness: 0.9mm
Nom. Overall Cable Diameter: 6.80mm
Maximum Delay (ns/100 m): 537 @ 250MHz ns/100 m
Maximum Delay Skew (ns/100 m): 45ns/100 m

Electrical Properties :

Frequency (MHz)	Attenuation dB/100m @20 ~ C Max.	NEXT dB/100m Min.	PS-NEXT dB/100m Min.	ACR dB/100m Min.	PS-ACR dB/100m Min	Return Loss dB/100m Min.	ELFEXT dB/100m Min.	PS-ELFEXT dB/100 m Min.
1	2.0	65.3	62.3	63.0	60.3	20.0	63.8	60.8
4	3.8	56.3	53.3	51.0	49.2	23.0	51.7	48.7
8	5.8	51.8	48.8	46.0	43.0	24.5	45.7	42.7
10	6.0	50.3	47.3	43.0	40.8	25.0	39.7	40.8
16	7.6	47.3	44.4	39.0	36.0	25.0	37.7	36.7
20	8.5	45.8	42.8	36.5	33.5	25.0	35.8	34.7
25	9.5	44.3	41.3	33.9	30.9	24.3	32.8	32.8
31.3	10.7	42.9	39.9	31.0	28.2	23.6	33.9	30.9
62.5	15.4	36.4	35.4	29.5	29.5	21.5	32.8	29.6
100	19.8	33.3	32.3	27.2	25.2	20.1	28.8	25.8
155	25.3	32.3	32.1	18.7	16.7	18.8	24	21
200	28.98	31.3	31.5	14	12	18	21.78	18.78
250	32.85	30.3	31.0	8.2	6.2	17.32	19.84	16.84

MEGALINK® Data Cable Solution

Impedance (Ohms)	Velocity of Propagation (%)	DC Resistance ($\Omega/100m$) @ 20 ~ C	DC Resistance Unbalance (%)	Max. Cap. @1000HZ	Max. Cap. Unbalance
100 \pm 5 (1-250MHZ)	66	9.37	\leq 3.0	49pF/m	330 pF/100m

Applicable Specifications and Agency Compliance (Overall) :

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM
Communications Cable: UL444
(DUZX, DUZX7)

Color Code of Insulation :

Number of Pair	Color Code	
	A Wire	B Wire
1	Blue/ White	Blue
2	Orange/ White	Orange
3	Green/ White	Green
4	Brown/ White	Brown

Jacket Color : Gray