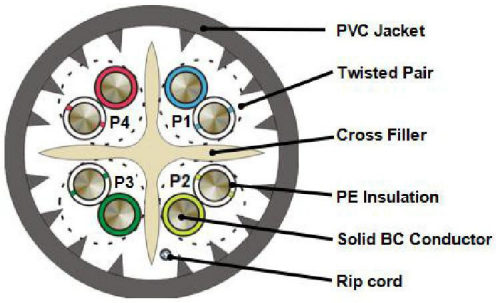
ethereal®

CAT6A

PRODUCT SPECIFICATIONS

CAT6A U/UTP CMR BC 650MHz Data Cable



PHYSICAL SPECIFICATIONS

Cable Construction		23 AWG U/UTP X 4P
Conductor Material		Solid Bare Copper
Insulating Material Type		PE
Insulation Diameter		1.10mm ± 0.02mm
Filler Material		PE
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 Nom. Diameter		7.0mm ± 0.2mm
Jacket Flame Rate		CM
Rip Cord		Polyester multi-yarn

ELECTRICAL CHARACTERISTICS

Impedance	4-250 MHz 103±20Ω 250-500 MHz 103±25Ω 500-650 MHz 103±35Ω
Overall Temp. Rating	70° C
Voltage Rating	300V
Mutual Capacitance	≤5.6 nF/100m
DC Resistance	≤9.38Ω /100m
DC Resistance Unbalance Of a pair	≤4%
Propagation Delay Skew	45 nS /100m
Par-to-Ground Capacitance Unbalance	≤330(pf/100M)
Nominal Velocity Of Propagation	66%

NOMINAL TRANSMISSION CHARACTERISTICS

FREQUENCY (MHz)	RETURN LOSS (dB)	ATTENUATION (dB/100M)	NEXT (dB)	PSNEXT (dB)
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
20	25.00	8.38	58.78	56.78
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
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

APPLICATIONS

10/100/1000BASE-T Networks
Ethernet 10 Gigabit
Telecommunications
LAN
Indoor
Commercial/Residential

COMPLIANCE & CERTIFICATIONS

c(UL)us Listed
c(ETL)us Listed
RoHS Compliant
CE

FEATURE

Footage Markers On Cable Jacket
Spool: 1000ft.
Color: Per Customer Requirement

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