



# PRODUCT SPECIFICATIONS

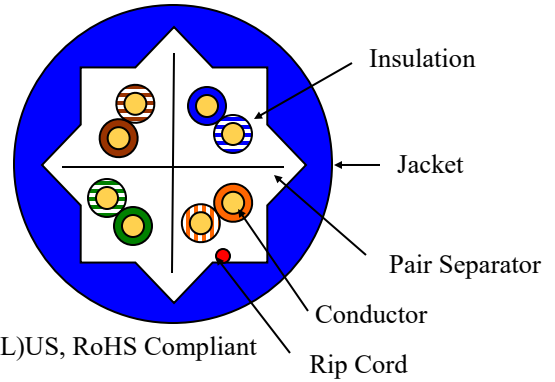
CONVERGENT  
CONNECTIVITY  
TECHNOLOGY

## CAT6ANP4RD

**Description:** 23AWG Non-Plenum, unshielded four twisted pairs, Category 6A Horizontal Cable Tested to 500 MHz.

**Ratings/Approvals:** NEC Article 800, ANSI/TIA/EIA 568C.2 Category 6A, 11801:2002 Category 6A, UL 1666:CMR Rating, C(ETL)US, RoHS Compliant

**Applications:** Supports all category 6A applications including Ethernet 10 Gigabit, 100BASETX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422.



### CONSTRUCTION

<b>Conductor:</b>	23 AWG Solid Bare Copper
<b>Number of Conductors or Pairs:</b>	4 Pair
<b>Jacket Material:</b>	Polyvinyl Chloride
<b>Nominal Overall Cable Diameter:</b>	0.255 in.
<b>Approximate Cable Weight:</b>	35 lb/1,000 ft.

### ELECTRICAL & PHYSICAL PROPERTIES

<b>Temperature Rating:</b>	Installation: 0°C to 50°C Operation: -2°C to 60°C
<b>Velocity of Propagation:</b>	70%
<b>Mutual Capacitance:</b>	14 pF/ft Nominal
<b>Capacitance Unbalance:</b>	330 pF/ft maximum
<b>Maximum Conductor D.C.R.:</b>	28.6Ω/1,000 ft
<b>Maximum D.C.R. Unbalance:</b>	3%
<b>Maximum Delay Skew:</b>	45ns/100m
<b>Characteristic Impedance:</b>	From 0.772 MHz - 100 MHz      100 ± 15% From 100 MHz - 200 MHz      100 ± 22% From 200 MHz - 500 MHz      100 ± 32%
<b>Minimum bend radius:</b>	1.250 in.
<b>Insulation Colors:</b>	Blue paired with White/Blue Orange paired with White/Orange Brown paired with White/Brown Green paired with White/Green

Issue Date: April '10 Revision: 2

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### Electrical Characteristics:

Frequency MHz	Return Loss	Insertion Loss	NEXT	PS-NEXT	ACRF	PS-ACRF	Prop. Delay	Alien Crosstalk	
	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	PS ANEXT	PS AACRF
	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Maximum	Minimum	Minimum
1	20.0	2.0	74.3	72.3	67.8	64.8	570.0	67.0	67.0
4	23.0	3.8	65.3	63.3	52.8	52.8	552.0	67.0	66.2
8	24.5	5.3	60.8	58.8	46.7	46.7	546.7	67.0	60.1
10	25.0	5.9	59.3	57.3	44.8	44.8	545.4	67.0	58.2
16	25.0	7.4	56.2	54.2	40.7	40.7	543.0	67.0	54.1
20	25.0	8.3	54.8	52.8	38.8	38.8	542.0	67.0	52.2
25	24.3	9.3	53.3	51.3	36.8	36.8	541.2	67.0	50.2
31.25	23.6	10.5	51.9	49.9	34.9	34.9	540.4	67.0	48.3
62.5	21.5	14.9	57.4	45.4	28.9	28.9	538.6	65.6	42.3
100	20.1	19.1	44.3	42.3	24.8	24.8	537.6	62.5	38.2
155	18.8	24.0	41.4	39.4	21.0	21.0	536.9	59.6	34.4
200	18.0	27.5	39.8	37.8	18.8	18.8	536.5	58.0	32.2
250	17.3	31.0	38.3	36.3	16.8	16.8	536.3	56.5	30.2
300	16.8	34.2	37.1	35.1	15.3	15.3	536.1	55.3	28.7
350	16.3	37.2	36.1	34.1	13.9	13.9	535.9	54.3	27.3
400	15.9	40.0	35.3	33.3	12.8	12.8	535.8	53.5	26.2
500	15.2	45.2	33.8	31.8	10.8	10.8	535.6	52.0	24.2

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