



PRODUCT SPECIFICATIONS

**CONVERGENT
CONNECTIVITY
TECHNOLOGY**

CAT5ENP4AM

Description: Unshielded four twisted pair Category 5e Enhanced Horizontal Cable with a PVC jacket.

Standards/Listings: ANSI/TIA/EIA 568B.2.1 Category 5e Swept to 350 MHz, ISO/EIC 11801 Category 5e, NEC Article 800, UL 1666: CMR Riser, ETL Electrically Verified to ANSI/TIA/EIA 568B.2.1 Category 5e, C(ETL)US CMR, RoHS Compliant

Applications: Supports all category 5 applications including Ethernet 100BASE-TX, 100BASE-VG and 155 ATM. Particularly suited as 622 ATM. Wideband, and Ethernet 1000BASE-T.

CONSTRUCTION

Conductor:	24 AWG Solid Bare Copper
Number of Conductors or Pairs:	4 Pair
Jacket Material:	Polyvinyl Chloride
Nominal Overall Cable Diameter:	0.185 inch (4.699 mm)
Approximate Cable Weight:	20 lb/1,000 ft.

ELECTRICAL & PHYSICAL PROPERTIES

Temperature Rating:	Installation: 0°C to 50°C Operation: -10°C to 60°C
Velocity of Propagation:	70%
Mutual Capacitance:	14 pF/ft Nominal
Capacitance Unbalance:	330 pF/ft maximum
Maximum Conductor D.C.R.:	28.6Ω/1,000 ft
Maximum D.C.R. Unbalance:	3%
Maximum Delay Skew:	15.0ns/100m
Maximum Propagation Delay Skew:	5.7ns/100m
Characteristic Impedance:	From 0.772 MHz — 100 MHz 100 ± 15% From 100 MHz — 250 MHz 100 ± 22% From 201 MHz—350 MHz 100 ± 32%
Maximum Installing Tension:	25 lb
Minimum Bending Radius:	1.0 inch
Insulation Colors:	Blue paired with White/Blue Orange paired with White/Orange Brown paired with White/Brown Green paired with White/Green

Issue Date: February '11 Revision: 0

THE STRONGEST LINK IN YOUR SUPPLY CHAIN



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ELECTRICAL CHARACTERISTICS

<u>Frequency</u>	<u>SRL</u>	<u>Return Loss</u>	<u>Attenuation</u>	<u>PS-NEXT</u>	<u>NEXT</u>	<u>ELFEXT</u>	<u>PS-ELFEXT</u>
<u>MHz</u>	<u>dB</u>	<u>dB</u>	<u>dB (100m)</u>	<u>dB</u>	<u>dB</u>	<u>dB</u>	<u>dB</u>
	<u>Minimum</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Minimum</u>	<u>Minimum</u>	<u>Minimum</u>
1	23.0	20.0	2.0	68.3	70.3	63.8	60.8
4	23.0	20.3	4.0	59.3	61.3	51.7	48.7
10	23.0	25.0	6.4	53.3	55.3	43.8	40.8
16	23.0	25.0	8.2	50.3	52.3	39.7	36.7
20	23.0	25.0	9.2	48.8	50.8	37.7	34.7
31.25	21.5	23.6	11.7	45.9	47.9	33.9	30.9
62.5	18.1	21.5	16.9	41.4	43.4	27.8	24.8
100	16.0	20.1	21.9	38.3	40.3	23.8	20.8
250	12.0	17.3	36.8	32.3	34.3	15.8	12.8
300	11.2	16.8	40.9	31.2	33.2	14.2	11.2
350	10.6	16.3	44.8	30.2	32.2	12.9	9.9

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