



# PRODUCT SPECIFICATIONS

**CONVERGENT  
CONNECTIVITY  
TECHNOLOGY**

## CAT5ENP4

**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 10000BASE-T.

### CONSTRUCTION

<b>Conductor:</b>	24 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>	0.185 inch (4.699 mm)
<b>Approximate Cable Weight:</b>	20 lb/1,000 ft.

### ELECTRICAL & PHYSICAL PROPERTIES

<b>Temperature Rating:</b>	Installation: 0°C to 50°C Operation: -10°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>	5%
<b>Maximum Delay Skew:</b>	45.0ns/100m
<b>Maximum Propagation Delay Skew:</b>	5.7ns/100m
<b>Characteristic Impedance:</b>	From 0.772 MHz — 100 MHz      100 ± 15% From 101 MHz — 250 MHz      100 ± 22% From 201 MHz—350 MHz      100 ± 32%
<b>Maximum Installing Tension:</b>	25 lb
<b>Minimum Bending Radius:</b>	1.0 inch
<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: March '11 Revision: 1

**THE STRONGEST LINK IN YOUR SUPPLY CHAIN**

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### ELECTRICAL CHARACTERISTICS

Frequency	SRL	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
	dB	dB	dB(100m)	dB	dB	dB	dB	dB	dB
MHz	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
1	23.0	20.0	2.0	65.3	62.3	63.8	60.8	63.3	60.3
4	23.0	20.3	4.0	56.3	53.3	51.7	48.7	52.3	49.3
8	23.0	20.5	5.7	51.8	48.8	45.7	42.7	46.1	43.1
10	23.0	25.0	6.4	50.3	47.3	43.8	40.8	43.9	40.4
16	23.0	25.0	8.2	47.3	44.3	39.7	36.7	39.1	36.1
20	23.0	25.0	9.2	45.8	42.8	37.7	34.7	36.6	33.6
25	22.0	25.0	10.4	44.3	41.3	35.8	32.8	33.9	30.9
31.25	21.1	23.6	11.7	42.9	39.9	33.9	30.9	31.2	28.2
62.5	18.1	21.5	16.9	38.4	35.4	27.8	24.8	21.5	18.5
100	16.0	20.1	21.9	35.3	32.3	23.8	20.8	13.4	10.4
250	12.0	17.3	36.8	34.3	32.3	15.8	12.8	----	----
300	11.2	16.8	40.9	33.2	31.2	14.2	11.2	----	----
350	10.6	16.3	44.8	32.2	30.2	12.9	9.9	----	----

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