



# PRODUCT SPECIFICATIONS

CONVERGENT  
CONNECTIVITY  
TECHNOLOGY

## CAT5EP4

**Description:**

Unshielded four twisted pair Category 5e Horizontal Cable with a flame retardant PVC jacket. Extended Testing to 350 MHz

**Standards/Listings:**

ANSI/TIA/EIA 568C.2 Category 5e Swept to 350 MHz, ISO/IEC 11801 Category 5e, NEC Article 800, UL 910: CMP FT6, ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 5e, C(ETL)US CMP, RoHS Compliant

**Applications:**

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

### CONSTRUCTION

<b>Conductor:</b>	24 AWG Solid Bare Copper
<b>Number of Conductors or Pairs:</b>	4 Pair
<b>Jacket Material:</b>	Flame Retardant Polyvinyl Chloride
<b>Nominal Overall Cable Diameter:</b>	0.185 inch (4.699 mm)
<b>Approximate Cable Weight:</b>	22 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>	72%
<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>	15.0ns/100m
<b>Maximum Propagation Delay Skew:</b>	5.7ns/100m
<b>Characteristic Impedance:</b>	From 0.772 MHz — 100 MHz      100 ± 15% From 100 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 Green paired with White/Green Brown paired with White/Brown

Issue Date: March '10 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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