



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

Conductor:

24 AWG Solid Bare Copper

Number of Conductors or Pairs:

4 Pair

Jacket Material:

Flame Retardant Polyvinyl Chloride

Nominal Overall Cable Diameter:

0.185 inch (4.699 mm)

Approximate Cable Weight:

22 lb/1,000 ft.

ELECTRICAL & PHYSICAL PROPERTIES

Temperature Rating:

Installation: 0°C to 50°C

Operation: -2°C to 60°C

Velocity of Propagation:

72%

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
Green paired with White/Green
Brown paired with White/Brown

Issue Date: March '13 Revision: 0

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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

Purchase at

LANshack

Sales@LANshack.com | 888-568-1230

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