



PRODUCT SPECIFICATIONS

**CONVERGENT
CONNECTIVITY
TECHNOLOGY**

CAT5ESP4

Description:

Shielded 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:	23 AWG Solid Bare Copper
Number of Conductors or Pairs:	4 Pair
Inner Jacket Material	Flame Retardant Polyvinyl Chloride
Shield:	Aluminum/Polyester Tape applied over inner jacket
Drain:	Solid Tin Copper
Jacket Material:	Flame Retardant Polyvinyl Chloride
Nominal Overall Cable Diameter:	0.245 inch (6.223 mm)
Approximate Cable Weight:	39 lb/1,000 ft.

ELECTRICAL & PHYSICAL PROPERTIES

Temperature Rating:	Installation: 0°C to 50°C Operation: -10°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 101 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: November '10 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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