

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

ANSI/TIA/EIA 568C.2 Category 5e Swept to 350 MHz, ISO/IEC 11801 Category 5e,

Standards/Listings: NEC Article 800, UL 910: CMP FT6, ETL Electrically Verified to ANSI/TIA/EJA

568C.2 Category 5e, C(ETL)US CMP, RoHS Compliant

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

Wideband, and Ethernet 10000BASE-T.

CONSTRUCTION

Conductor:

Number of Conductors or Pairs:

Inner Jacket Material

Shield:

Drain:

Jacket Material:

Nominal Overall Cable Diameter:

Approximate Cable Weight:

23 AWG Solid Bare Copper

4 Pair

Flame Retardant Polyvinyl Chloride

Alunamur Polyester Tape applied over inner jacket

Solid Tin Copper

Flame Retardant Polyvinyl Chloride

0.245 inch (6.223 mm)

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.: $28.6\Omega/1,000 \text{ ft}$

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 $100 \pm 22\%$ From 201 MHz—350 MHz $100 \pm 32\%$

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 paired with White/Brown

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THE STRONGEST LINK IN YOUR SUPPLY CHAIN

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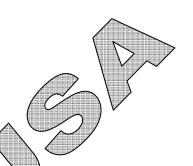
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ELECTRICAL CHARACTERISTICS



Frequency	SRL	Return Loss	Attenuation	PS-NEXT	<u>NEXT</u>	ELFEXT	PS-ELFEXT
MHz	<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	/ 2.2	48.8	50.8	37.7	34.7
31.25	21.5	23.6	117	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	$\left[\begin{array}{c} 1 \\ 1 \\ 3 \end{array}\right]$	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	1 6.3	44.8	30.2	32.2	12.9	9.9

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