

# PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY TECHNOLOGY

## **CAT6ESNP4**

**Description:** 23AWG Non-Plenum, shielded four twisted pairs, Category 6 Horizontal Cable.

Extended Testing to 550 MHz.

Ratings/Approvals:

NEC Article 800, UL 1666:CMR Rating FT4, ETL Electrically Verified to

ANSI/TIA/EIA 568C.2 Category 6, C(ETL)US, RoHs Compliant

**Applications:** Supports all category 6 applications including Ethernet 1BASE-TX, 100BASE-VG

and 155 ATM. Particularly suited for high bandwidth application such as 622 ATM, Wideband, Ethernet 1000BASE-T and emerging applications with anticipated data)

rates to 3.2 Gbps.



**Conductor:** 

**Number of Conductors or Pairs:** 

Tape:

Drain:

Shield:

Jacket Material:

Nominal Overall Cable Diameter:

**Approximate Cable Weight:** 

23 AWG Solid Bare Copper

4 Pair

Clear Mylar Tape

Solid Tin Copper

Aluminum/Polyester Tape (100% Coverage)

Polyvinyl Chloride

0.305 in. (7.747 mm)

49 lb/1,000 ft.

#### ELECTRICAL & PHYSICAL PROPERTIES

Temperature Rating:

Installation: 0°C to 50°C
Operation: -2°C to 60°C

Velocity of Propagation: 70%

Mutual Capacitance: 14 pF/ft Nominal

Capacitance Unbalance 330 pF/ft maximum

Maximum Conductor D.C.N.:  $28.6\Omega/1,000 \text{ ft}$ 

Maximum D.C.R. Unbalance: 3%

Maximum Delay Skew: 18 ns/100m

Characteristic impedance: From 0.772 MHz - 100 MHz  $100 \pm 15\%$  From 100 MHz - 250 MHz  $100 \pm 22\%$  From 201 MHz - 550 MHz  $100 \pm 32\%$ 

Winnum bend radius:

Insulation Colors:

Blue paired with White/Blue

Blue paired with White/Blue Orange paired with White/Orange Green paired with White/Green Brown paired with White/Brown

Issue Date: July '12 Revision: 0

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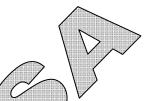


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### **CAT6ESNP4**

#### **ELECTRICAL CHARACTERISTICS**



Frequency	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
_ requestey	dB	dB(100m)	dB	dB	dB	dB	dB	dB
MHz	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
1	20.0	2.0	80.3	78.3	73.8	70.8	78.3	76.3
4	23.0	3.8	71.3	69.3	61.8	58.8	67.5	65.5
10	25.0	6.0	65.3	63.3	53.8	50.8	59.3	57.3
16	25.0	7.6	62.2	60⁄2	49.7	46.7	54.6	52.6
20	25.0	8.5	60.8	<b>/</b> 58.8 <b>/</b>	47.8	44.8	52.3	50.3
31.25	23.6	10.7	57.9	(55.9)	<b>A</b> 3.9	40.9	47.2	45.2
62.5	21.5	15.4	53.4	31.4	37.9	34.9	38.0	36.0
100	20.1	19.8	50.	48.3	33.8	30.8	30.5	28.5
200	18.0	29.0	/ X5,8 >	43.8	27.8	24.8	16.8	14.9
250	17.3	32.8	44/3/	<b>→</b> 42.3	25.8	22.8	11.5	9.5
300	16.8	36.4	43.1	41.1	24.3	21.3		
350	16.3	/39.8	42/1	40.1	22.9	19.9		
400	15.9	43.0	<b>/</b> 41.3	39.3	21.8	18.8		
500	14.8	49.5	40.2	38.2	20.0	17.0		
550	14.4	53.Y	39.5	37.5	18.9	15.9		

\*Values above 250 MHz are for engineering information only





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