

PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY **TECHNOLOGY**

CAT6ENP4AM

Applications:

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

Extended testing to 550 MHz

NEC Article 800, UL 1666:CMR Rating FT4, ETL Electrically Verified to **Ratings/Approvals:**

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

Supports all Gigabit Ethernet/1000BAST-T/IEEE 802.3ab, ATM up to 155 Mbps 100

Mbps Fast Ethernet 100BASE-T/IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet 10BASE-T/IEEE 802.3, 4 & 16 Mbps Token Ring/IEEE 802.5, T1/E1, x SI_ ISDN

550 MHz Broadband Video and standards under development such as ATM at 62.

Mbps, 1.2, 2.4 and 4.8 Gbps

CONSTRUCTION

Conductor:

Number of Conductors or Pairs:

Jacket Material:

Insulation Colors:

Nominal Overall Cable Diameter:

Approximate Cable Weight:

23 AWG Solid Bare Copper

Polyvinyl Chloride

0.240 in.

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

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

Inimum bend radius: 1.0 in.

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

Issue Date: July '14 Revision: 1

THE STRONGEST LINK IN YOUR SUPPLY CHAIN

Page 1 of 2 PHONE: 866-905-6744 FAX: 845-651-3564

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 $100 \pm 32\%$

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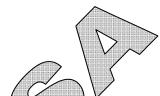


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ELECTRICAL CHARACTERISTICS



Frequency	Return Loss	Insertion Loss	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
MHz	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)
	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
1	20.0	2.0	80.3	78.3	73.8	79.8	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	497	46.7	54.6	52.6
20	25.0	8.5	60.8	58.8	47.8	44.8	52.3	50.3
31.25	23.6	10.7	57.9	55.9	43.9	40.9	47.2	45.2
62.5	21.5	15.4	53.4	51.4	37.9	34.9	38.0	36.0
100	20.1	19.8	50/3//	→ 48.3	33.8	30.8	30.5	28.5
200	18.0	29.0	45.8	43.8	27.8	24.8	16.8	14.9
250	17.3	32.8	44.3	42.3	25.8	22.8	11.5	9.5
300	16.8	38.4	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	41.3	39.3	21.8	18.8		
500	14.8	49.5	40.2	38.2	20.0	17.0		
550	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	53.1	39.5	37.5	18.9	15.9		

*Values above 250 MHz are for engineering information only

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