

PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY **TECHNOLOGY**

CAT6EP4

Applications:

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

Extended testing to 550 MHz

NEC Article 800, UL 910:CMP Rating FT6, 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/EL, xQSL_18DN,

550 MHz Broadband Video and standards under development such as ATM at 622

Mbps, 1.2, 2.4 and 4.8 Gbps

CONSTRUCTION

Conductor:

Insulation Material:

Number of Conductors or Pairs:

Jacket Material:

Nominal Overall Cable Diameter:

Approximate Cable Weight:

PHONE: 866-905-6744

FAX: 845-651-3564

G Solid Bare Copper

FEP

4 Pair

Flame Retardant Polyvinyl Chloride

0.240 in.

34 lb/1,000 ft.

ELECTRICAL & PNYSICAL PROPERTIES

Installation: 0°C to 50°C **Temperature Rating:** Operation: -2°C to 60°C

72% **Velocity of Propagation:**

14 pF/ft Nominal **Mutual Capacitance:**

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 $100\pm22\%$ From 251 MHz - 550 MHz $100 \pm 32\%$

Ainimum bend radius: 1.0 in.

Insulation Colors: Blue paired with White/Blue Orange paired with White/Orange

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

Issue Date: June '15 Revision: 4

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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	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	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	\$9/3//	→ 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	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	41.3	39.3	21.8	18.8		
500	14.8	49.5	40.2	38.2	20.0	17.0		
550	14.4	53.1	39.5	37.5	18.9	15.9		

*Values above 250 MHz are for engineering information only

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RoHS∜ (¶

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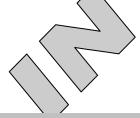
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Signature:	<u> </u>
Company.	
Date:	

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