

PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY TECHNOLOGY

CAT6ESP4

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

Extended testing to 550 MHz

Ratings/Approvals: NEC Article 800, UL 444 Type CMP Rating FT6, 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 articipated data

rates to 3.2 Gbps.

CONSTRUCTION

Conductor:

Number of Conductors or Pairs:

Construction:

Tape:

Drain:

Shield:

Jacket Material:

Insulation Colors:

Nominal Overall Cable Diameter:

Approximate Cable Weight:

23 AWG Solid Bare Copper

4 Pair

4 Pairs cabled around a pair separator (spline)

Clear Mylar Tape

Solid Tin Copper

Aluminum/Polyester Tape (100% Coverage)

Flame Retardant 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: 72%

Mutual Capacitance: 14 pF/ft Nominal

Capacitance (Inbalance: 330 pF/ft maximum

Maximum Conductor D.C.R.: 28.6Ω/1,000 ft

Maximum D.C.R. Unbalance: 5%

Maximum Delay Skew: 45 ns/100m

tharacteristic Impedance: From 0.772 MHz - 100 MHz From 100 MHz - 250 MHz $100 \pm 15\%$ $100 \pm 22\%$

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

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

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



Issue Date: June '15 Revision: 2

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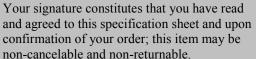
CAT6ESP4

ELECTRICAL CHARACTERISTICS

Frequency	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
MHz	dB	dB(100m)	dB	dB	dB	dB	dB	dB
	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	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	36.4	43.1	4 1.1	24.3	21.3		
350	16.3	39.8	42.1	40.1	22.9	19.9		
400	15.9	43.0	A1,3	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

Note: While Convergent Connectivity Technology has made every reasonable effort to ensure the accuracy of the information in this document, Convergent Connectivity Technology does not guarantee that it is error-free, nor does Convergent Connectivity Technology make any other representation, warranty, or guarantee that the information is accurate, correct, reliable or current. Convergent Connectivity Technology reserves the right to make any adjustments to the information contained herein at any time without notice. Convergent Connectivity Technology expressly disclaims all implied warranties regarding the information contained herein, including but not limited to, any implied warranties of merchantability or fitness for particular purpose. The dimensions in this document are for reference purposes only and are subject to change without notice.



Signature:	
Company:	
Date:	

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RoHS & COLUMN CONTROL OF CONTROL

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