



**Part Number:** 1304A

CatSnake, Tactical CAT5E, #24-4pr, Bonded-Pairs

## Product Description

CatSnake® Tactical CAT5E, 4-24 AWG bonded-pairs, stranded bare copper conductors, polyolefin insulation, PVC jacket with sequential marking at two foot intervals

## Technical Specifications

<b>Suitable Applications:</b>	Field Deployable Cat 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet
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## Construction and Dimensions

### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
24	7x32	BC - Bare Copper	0.024 in	4
<b>Total Number of Conductors:</b>			8	

### Insulation:

Material	Nominal Diameter
PO - Polyolefin	0.041 in

### Color Chart 1:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

### Outershield 1:

Material
Unshielded

### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.25 in

## Electrical Characteristics

### Conductor DCR:

Max. Conductor DCR	Max. DCR Unbalance	Nominal Conductor DCR
9 Ohm/1000ft	3 %	25 Ohm/1000ft

### Capacitance:

Max. Capacitance Unbalance	Nom. Mutual Capacitance
66 pF/ft	15 pF/ft

### Delay:

Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]	Typical Delay Skew
510 ns/100m	25 ns/100m	70 %	15 ns/ft

### High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2.4 dB/100m	65.3 dB	65.3 dB	62.9 dB	63.8 dB	60.8 dB	20 dB	100 ± 12 Ohm	105 ± 10 Ohm
4 MHz	4.8 dB/100m	56.3 dB	56.3 dB	51.5 dB	51.7 dB	48.7 dB	23 dB	100 ± 12 Ohm	100 ± 10 Ohm
6 MHz	5.9 dB/100m				45.7 dB	42.7 dB		100 ± 12 Ohm	100 ± 10 Ohm
8 MHz	6.8 dB/100m	51.8 dB	51.8 dB	45 dB	43.8 dB	40.8 dB	24.5 dB	100 ± 12 Ohm	100 ± 10 Ohm
10 MHz	7.7 dB/100m	50.3 dB	50.3 dB	42.6 dB	39.7 dB	36.7 dB	25 dB	100 ± 12 Ohm	100 ± 10 Ohm
12 MHz	8.4 dB/100m				37.7 dB	34.7 dB		100 ± 12 Ohm	100 ± 10 Ohm
16 MHz	9.7 dB/100m	47.3 dB	47.3 dB	37.5 dB	35.8 dB	32.8 dB	25 dB	100 ± 15 Ohm	100 ± 10 Ohm
20 MHz	11 dB/100m	45.8 dB	45.8 dB	34.8 dB	33.9 dB	30.9 dB	25 dB	100 ± 15 Ohm	100 ± 10 Ohm
25 MHz	12.4 dB/100m	44.3 dB	44.3 dB	31.9 dB	27.8 dB	24.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 10 Ohm
31.25 MHz	13.9 dB/100m	42.9 dB	42.9 dB	29 dB	23.8 dB	20.8 dB	23.6 dB	100 ± 18 Ohm	100 ± 10 Ohm
62.5 MHz	20.2 dB/100m	38.4 dB	38.4 dB	18.3 dB	19.9 dB	16.9 dB	21.5 dB	100 ± 18 Ohm	100 ± 10 Ohm
100 MHz	26 dB/100m	35.3 dB	35.3 dB	9.2 dB	17.7 dB	14.7 dB	20.1 dB	100 ± 20 Ohm	100 ± 10 Ohm
155 MHz	33.2 dB/100m	32.5 dB	32.5 dB	0 dB	15.8 dB	12.8 dB	19 dB	100 ± 20 Ohm	100 ± 10 Ohm
200 MHz	38.4 dB/100m	30.8 dB	30.8 dB		14.2 dB	11.2 dB	19 dB	100 ± 20 Ohm	100 ± 10 Ohm
250 MHz	43.7 dB/100m	29.3 dB	29.3 dB		13.9 dB	10.9 dB	18 dB	100 ± 20 Ohm	100 ± 10 Ohm
300 MHz	48.6 dB/100m	28.2 dB	28.2 dB		12.9 dB	9.9 dB	18 dB	100 ± 22 Ohm	100 ± 10 Ohm
310 MHz	49.5 dB/100m	27.9 dB	27.9 dB				18 dB		
350 MHz	53.2 dB/100m	27.2 dB	27.2 dB				17 dB		

### Voltage:

## UL Voltage Rating

300V RMS V

## Use

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	44 lbs

## Temperature Range

Operating Temp Range:	-30°C To +75°C °C
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## Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.5 in
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## Part Number

Plenum (Y/N):	No
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## Standards

ISO/IEC Compliance:	11801 Category 5e Patch
Telecommunications Standards:	568-B.2 Category 5e Patch
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	NEMA WC-63.1 Category 5, ICEA 661, Category 5e Patch, TIA/EI-568-B.2, Category 5e
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

## History

Notes:	US Patents 5606151; 5734126; 5763823. EtherNet/IP is a trademark of ControlNet International, Ltd. under license by Open DeviceNet Vendor Association, Inc. Operating temperatures are subject to length de-rating.
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## Product Variants

Part Number	Color	Put-Up Type	Length
1304A	GRAY	Reel	305 m
1304A	BLACK, MATTE	Reel	1000 ft
1304A	MATTE BLACK	Reel	305 m
1304A B591000	BLACK, MATTE	Reel	1000 ft
1304A	BLACK, MATTE	Reel	500 ft
1304A	MATTE BLACK	Reel	152 m
1304A B59500	BLACK, MATTE	Reel	500 ft
1304A			

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