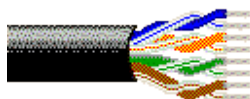


## 1304A Multi-Conductor - CatSnake®



For more Information  
please call

1-800-Belden1



### Description:

24 AWG Bonded-Pairs stranded (7x32) bare copper conductors, polyolefin insulation, PVC jacket. Sequential marking at two foot intervals.

### Usage (Overall)

**Suitable Applications:** Field Deployable Cat 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
4	24	7x32	BC - Bare Copper	0.024

#### Insulation

**Insulation Material:**

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PO - Polyolefin	.0085	.041

#### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.029

#### Overall Cable

**Overall Nominal Diameter:** 0.250 in.

#### Pair

**Pair Color Code Chart:**

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

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -30°C To +75°C

**Bulk Cable Weight:** 26 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 44 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 2.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**Other Standards:** 11801 Category 5e Patch

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	02/20/2006
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	568-B.2 Category 5e Patch
Other Specification:	NEMA WC-63.1 Category 5, ICEA 661, Category 5e Patch, TIA/EI-568-B.2, Category 5e

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Mutual Capacitance:

Capacitance (pF/ft)  
15

Maximum Capacitance Unbalance (pF/100 m): 66

### Nominal Velocity of Propagation:

VP (%)  
70

### Maximum Delay:

Delay (ns/100 m)  
510

### Typical Delay Skew:

Delay Skew (ns/ft)  
15.000

### Max. Delay Skew:

Delay Skew (ns/100 m)  
25

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
25.000

### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)  
9

### Max. Operating Voltage - UL:

Voltage  
300 V RMS

### Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)  
3

## Electrical Characteristics-Premise (Overall)

### Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.400	65.3	65.3	62.9	20.000

4	4.800	56.3	56.3	51.5	23.000
6	5.900				
8	6.800	51.8	51.8	45.0	24.500
10	7.700	50.3	50.3	42.6	25.000
12	8.400				
16	9.700	47.3	47.3	37.5	25.000
20	11.000	45.8	45.8	34.8	25.000
25	12.400	44.3	44.3	31.9	24.300
31.25	13.900	42.9	42.9	29.0	23.600
62.5	20.200	38.4	38.4	18.3	21.500
100	26.000	35.3	35.3	9.2	20.100
155	33.200	32.5	32.5	0	19.000
200	38.400	30.8	30.8		19.000
250	43.700	29.3	29.3		18.000
300	48.600	28.2	28.2		18.000
310	49.500	27.9	27.9		18.000
350	53.200	27.2	27.2		17.000

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.7
8	100 ± 12	100 ± 10	45.7	42.7
10	100 ± 12	100 ± 10	43.8	40.8
16	100 ± 12	100 ± 10	39.7	36.7
20	100 ± 12	100 ± 10	37.7	34.7
25	100 ± 15	100 ± 10	35.8	32.8
31.25	100 ± 15	100 ± 10	33.9	30.9
62.5	100 ± 15	100 ± 10	27.8	24.8
100	100 ± 18	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 20	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9

## Notes (Overall)

**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.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1304A B591000	1,000 FT	28.000 LB	BLACK, MATTE		4 PR #24 PP FRPVC
1304A B59500	500 FT	14.500 LB	BLACK, MATTE		4 PR #24 PP FRPVC

Revision Number: 6    Revision Date: 03-19-2010

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## 1304A Multi-Conductor - CatSnake®

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