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1-800-Belden1



### General Description:

Brilliance® Tactical 5e CatSnake® Patch Data Cable (100 MHz), 4 Bonded-Pair, U/UTP-Unshielded, 24 AWG Stranded Bare Copper Conductors, Polyolefin Insulation, Flexible PVC Inner Jacket, Flexible PVC Outer Jacket

### 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. (mm)
4	24	7x32	BC - Bare Copper	0.610

**Total Number of Conductors:** 8

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
PO - Polyolefin	1.092

#### Separator

**Separator Material:** Tissue Paper Tape

#### Inner Jacket

**Inner Jacket Material:**

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	6.045

**Inner Jacket Ripcord:** No

#### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC

**Outer Jacket Ripcord:** No

### Overall Cable

**Overall Nominal Diameter:** 7.620 mm

### 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
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## Mechanical Characteristics (Overall)

Storage Temperature Range:	-30°C To +75°C
Installation Temperature Range:	0°C To +60°C
Operating Temperature Range:	-30°C To +75°C
Bulk Cable Weight:	56.552 Kg/Km
Max. Recommended Pulling Tension:	177.928 N
Min. Bend Radius/Minor Axis:	31.750 mm
Min. Bend/Installation:	76.200 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
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:	Category 5e - TIA 568.C.2
Other Specification:	NEMA WC-63.1 Category 5 Patch, Category 5e Patch

### Applicable Patents:

Country
<a href="http://www.belden.com/p">www.belden.com/p</a>

### Flame Test

IEC Flame Test:	60332-1
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Sunlight Resistance:	Yes
Oil Resistance:	No
Non-halogenated:	No

### Plenum/Non-Plenum

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

### Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

Maximum Capacitance Unbalance (pF/100 m):	330
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### Nominal Velocity of Propagation:

**VP (%)**

70

**Maximum Delay:**

**Start Freq. (MHz) Delay (ns/100 m)**

100.000 537.600

**Max. Delay Skew:**

**Delay Skew (ns/100 m)**

45.000

**Maximum Conductor DC Resistance:**

**DCR @ 20°C (Ohm/100 m)**

9.380

**Max. Operating Voltage - UL:**

**Voltage**

300 V RMS

**Maximum DCR Unbalanced:**

**DCR Unbalance @ 20°C (%)**

5.000

## 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	62.3	60.3	20.000
4	4.900	56.3	53.3	49.2	23.000
8	6.900	51.8	48.8	43.0	24.500
10	7.800	50.3	47.3	40.8	25.000
16	9.900	47.2	44.2	36.0	25.000
20	11.100	45.8	42.8	33.5	25.000
25	12.500	44.3	41.3	30.9	24.300
31.25	14.100	42.9	39.9	28.2	23.600
62.5	20.400	38.4	35.4	18.4	21.500
100	26.400	35.3	32.3	10.3	20.100
155	33.700	32.4	29.4	1.4	18.800
200	38.980	30.8	27.8		18.000
250	44.200	29.3	26.3		17.300
300	49.200	28.1	25.1		16.800
310	50.200	27.9	24.9		16.700
350	53.800	27.1	24.1		16.300

**Premise Cable Electrical Table 2:**

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	105 ± 10	63.8	60.8
4	100 ± 15	100 ± 10	51.8	48.8
8	100 ± 15	100 ± 10	45.7	42.7
10	100 ± 15	100 ± 10	43.8	40.8
16	100 ± 15	100 ± 10	39.7	36.7
20	100 ± 15	100 ± 10	37.8	34.8
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	27.9	24.9
100	100 ± 15	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	20.0	17.0
200	100 ± 20	100 ± 10	17.8	14.8
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.3	11.3
310	100 ± 20	100 ± 10	14.9	11.0
350	100 ± 22	100 ± 10	12.9	9.9

## 1305A Multi-Conductor - UpJacketed CatSnake®

### Notes (Overall)

**Notes:** EtherNet/IP is a trademark of ControlNet Internation, Ltd. under license by Open DeviceNet Vendor Association, Inc.  
Operating temperatures are subject to length de-rating in Addition To 20% length Derating for Patch Cable Insertion Loss.  
-30C Cold Bend Per UL1581. Data Above 100MHz For Engineering Information Only.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1305A B591000	1,000 FT	42.000 LB	BLACK, MATTE		4 PR #24 PP FRPVC PVC
1305A B59500	500 FT	23.000 LB	BLACK, MATTE		4 PR #24 PP FRPVC PVC

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