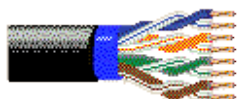


For more Information  
please call

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
---	----------------------------

## 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
-----------------	---------

### 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
---------------	----

## Electrical Characteristics (Overall)

### Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

Maximum Capacitance Unbalance (pF/100 m):	330
---	-----

### 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

Revision Number: 9    Revision Date: 08-29-2017

© 2019 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.