



Product: [1304A](#)

CatSnake® Category 5E Tactical Cable, 4 Bonded-Pairs, U/UTP

Product Description

CatSnake® Category 5E Tactical Cable, 4 Bonded-Pairs, 24 AWG Stranded Bare Copper Conductors, U/UTP, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Category 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio Over Ethernet, PoE, PoE+
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents .

Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	7x32	BC - Bare Copper	4

Insulation

Material	Color Code
PO - Polyolefin	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Bonded-Pair:	Yes
--------------	-----

Outer Shield Material

Type	Material	Coverage
Tape	Polyester	100%

Outer Jacket Material

Separator Material	Material	Nom. Diameter	Ripcord
Dielectric Tape (Patented)	PVC - Polyvinyl Chloride	0.250 in	No

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Nom. Mutual Capacitance	Nom. Velocity of Prop.
93.8 Ohm/km	5%	90 pF/100m	15 pF/ft	70%

Delay

Max. Delay	Max. Delay Skew	Nom. 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. ACR [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	2.0 dB/100m	65.3 dB	65.3 dB	63.3 dB	62.9 dB	63.8 dB	60.8 dB	20.0 dB	100 +/- 12	105 +/- 10
4 MHz	4.1 dB/100m	56.3 dB	56.3 dB	52.2 dB	51.5 dB	51.8 dB	48.8 dB	23.0 dB	100 +/- 12	100 +/- 10
8 MHz	5.8 dB/100m	51.8 dB	51.8 dB	46.0 dB	45.0 dB	45.7 dB	42.7 dB	24.5 dB	100 +/- 12	100 +/- 10
10 MHz	6.5 dB/100m	50.3 dB	50.3 dB	43.8 dB	42.6 dB	43.8 dB	40.8 dB	25.0 dB	100 +/- 12	100 +/- 10
16 MHz	8.2 dB/100m	47.2 dB	47.2 dB	39.0 dB	37.5 dB	39.7 dB	36.7 dB	25.0 dB	100 +/- 12	100 +/- 10
20 MHz	9.3 dB/100m	45.8 dB	45.8 dB	36.5 dB	34.8 dB	37.8 dB	34.8 dB	25.0 dB	100 +/- 12	100 +/- 10

25 MHz	10.4 dB/100m	44.3 dB	44.3 dB	33.9 dB	31.9 dB	35.8 dB	32.8 dB	24.3 dB	100 +/- 15	100 +/- 10
31.25 MHz	11.7 dB/100m	42.9 dB	41.9 dB	31.2 dB	29.0 dB	33.9 dB	30.9 dB	23.6 dB	100 +/- 15	100 +/- 10
62.5 MHz	17.0 dB/100m	38.4 dB	38.4 dB	21.4 dB	18.3 dB	27.9 dB	24.9 dB	21.5 dB	100 +/- 15	100 +/- 10
100 MHz	22.0 dB/100m	35.3 dB	35.3 dB	13.3 dB	9.2 dB	23.8 dB	20.8 dB	20.1 dB	100 +/- 18	100 +/- 10
155 MHz	28.1 dB/100m	32.4 dB	32.4 dB	4.4 dB	0.0 dB	20.0 dB	17.0 dB	18.8 dB	100 +/- 18	100 +/- 10
200 MHz	32.4 dB/100m	30.8 dB	30.8 dB		9.2 dB	17.8 dB	14.8 dB	18.0 dB	100 +/- 18	100 +/- 10
250 MHz	44.2 dB/100m	29.3 dB	29.3 dB		0 dB	15.8 dB	12.8 dB	17.3 dB	100 +/- 18	100 +/- 10
310 MHz	50.1 dB/100m	27.9 dB	27.9 dB			14.0 dB	11.0 dB	16.7 dB	100 +/- 18	100 +/- 10
350 MHz	53.8 dB/100m	27.1 dB	27.1 dB			12.9 dB	9.9 dB	16.3 dB	100 +/- 18	100 +/- 10
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

Non-UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-20°C To +75°C	0°C To +50°C	-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
1.0 in	2.5 in

Max. Pull Tension:	40 lbs
Bulk Cable Weight:	26 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor
ICEA Compliance:	S-90-661-2012
NEMA Compliance:	NEMA WC-63.1
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
European Directive Compliance:	EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1304A B59500	Black, Matte	Reel	500 ft	612825111115
1304A B591000	Black, Matte	Reel	1,000 ft	612825111108

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Operating Temperatures Are Subject to Length De-rating.
--------	--

History

Update and Revision:	Revision Number: 0.376 Revision Date: 09-30-2020
----------------------	--

© 2020 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[1304A B59500](#)