



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/patents .

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
24 AWG	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
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Outer Shield

Shield Type	Material	Coverage
Tape	Polyester	100%

Outer Jacket

Separator	Material	Nom. Diameter	Ripcord
Central Filler	PVC - Polyvinyl Chloride	0.250 in (6.35 mm)	No

Overall Cable Diameter (Nominal):	0.250 in (6.35 mm)
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Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km (28.6 Ohm/1000ft)	90 pF/100m

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.	Typical Delay Skew
510 ns/100m	25 ns/100m	70%	15 ns/ft

High Frequency

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) [Ohm]	Max./Min. Fitted Impedance [Ohm]
1	2.0 dB/100m	65.3	65.3	63.3	62.9	63.8	60.8	20.0	100 +/- 12	105 +/- 10
4	4.1 dB/100m	56.3	56.3	52.2	51.5	51.8	48.8	23.0	100 +/- 12	100 +/- 10
8	5.8 dB/100m	51.8	51.8	46.0	45.0	45.7	42.7	24.5	100 +/- 12	100 +/- 10
10	6.5 dB/100m	50.3	50.3	43.8	42.6	43.8	40.8	25.0	100 +/- 12	100 +/- 10

16	8.2 dB/100m	47.2	47.2	39.0	37.5	39.7	36.7	25.0	100 +/- 12	100 +/- 10
20	9.3 dB/100m	45.8	45.8	36.5	34.8	37.8	34.8	25.0	100 +/- 12	100 +/- 10
25	10.4 dB/100m	44.3	44.3	33.9	31.9	35.8	32.8	24.3	100 +/- 15	100 +/- 10
31.25	11.7 dB/100m	42.9	41.9	31.2	29.0	33.9	30.9	23.6	100 +/- 15	100 +/- 10
62.5	17.0 dB/100m	38.4	38.4	21.4	18.3	27.9	24.9	21.5	100 +/- 15	100 +/- 10
100	22.0 dB/100m	35.3	35.3	13.3	9.2	23.8	20.8	20.1	100 +/- 18	100 +/- 10
155	28.1 dB/100m	32.4	32.4	4.4	0.0	20.0	17.0	18.8	100 +/- 18	100 +/- 10
200	32.4 dB/100m	30.8	30.8		9.2	17.8	14.8	18.0	100 +/- 18	100 +/- 10
250	44.2 dB/100m	29.3	29.3		0	15.8	12.8	17.3	100 +/- 18	100 +/- 10
310	50.1 dB/100m	27.9	27.9			14.0	11.0	16.7	100 +/- 18	100 +/- 10
350	53.8 dB/100m	27.1	27.1			12.9	9.9	16.3	100 +/- 18	100 +/- 10
300	48.6 dB/100m	28.2	28.2			12.9	9.9	18	100 ± 22	100 ± 10
310	49.5 dB/100m	27.9	27.9					18		
350	53.2 dB/100m	27.2	27.2					17		

Voltage

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 (25 mm)	2.5 in (64 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	26 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor
ICEA Compliance:	S-90-661
NEMA Compliance:	NEMA WC-63.1
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-6
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

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.
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History

Update and Revision:	Revision Number: 0.543 Revision Date: 01-20-2023
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Part Numbers

Variants

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

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