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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	Nom. Insulation Diameter	Color Code
PO - Polyolefin	0.041	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
93.8 Ohm/km	5%	90 pF/100m	15 pF/ft

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
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)

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: 0.381 Revision Date: 05-26-2021