Product: 1305A

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

Product Description

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

Inner Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.236 in (5.99 mm)	No

Outer Jacket

Separator	Material	Nom. Diameter	Ripcord
Central Filler	PVC - Polyvinyl Chloride	0.298 in (7.57 mm)	No

Overall Cable Diameter (Nominal):	0.298 in (7.57 mm)

Electrical Characteristics

Electricals

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

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	537.6 ns/100m	45 ns/100m	70%

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	2.4 dB/100m	65.3	62.3	63.3	60.3	63.8	60.8	20.0	100 +/- 15	105 +/- 10
4	4.9 dB/100m	56.3	53.3	52.2	49.2	51.8	48.8	23.0	100 +/- 15	100 +/- 10
8	6.9 dB/100m	51.8	48.8	46.0	43.0	45.7	42.7	24.5	100 +/- 15	100 +/- 10
10	7.8 dB/100m	50.3	47.3	43.8	40.8	43.8	40.8	25.0	100 +/- 15	100 +/- 10

16	9.9 dB/100m	47.2	44.2	39.0	36.0	39.7	36.7	25.0	100 +/- 15	100 +/- 10
20	11.1 dB/100m	45.8	42.8	36.5	33.5	37.8	34.8	25.0	100 +/- 15	100 +/- 10
25	12.5 dB/100m	44.3	41.3	33.9	30.9	35.8	32.8	24.3	100 +/- 15	100 +/- 10
31.25	14.1 dB/100m	42.9	39.9	31.2	28.2	33.9	30.9	23.6	100 +/- 15	100 +/- 10
62.5	20.4 dB/100m	38.4	35.4	21.4	18.4	27.9	24.9	21.5	100 +/- 15	100 +/- 10
100	26.4 dB/100m	35.3	32.3	13.3	10.3	23.8	20.8	20.1	100 +/- 15	100 +/- 10
155	33.7 dB/100m	32.4	29.4	4.4	1.4	20.0	17.0	18.8	100 +/- 18	100 +/- 10
200	38.9 dB/100m	30.8	27.8		9.2	17.8	14.8	18.0	100 +/- 20	100 +/- 10
250	44.2 dB/100m	29.3	26.3		0	15.8	12.8	17.3	100 +/- 20	100 +/- 10
300	49.2 dB/100m	28.1	25.1			14.3	11.3	16.8	100 +/- 20	100 +/- 10
310	50.1 dB/100m	27.9	24.9			14.0	11.0	16.7	100 +/- 20	100 +/- 10
350	53.8 dB/100m	27.1	24.1			12.9	9.9	16.3	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.
1.25 in (31.8 mm)	3.0 in (76 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	38 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
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.

History

Update and Revision:	Revision Number: 0.562 Revision Date: 12-12-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
1305A B59500	Black, Matte	Reel	500 ft	612825111184
1305A B591000	Black, Matte	Reel	1,000 ft	612825111177

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