# 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 | Number 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

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|---|---|
| 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

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| 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

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| Update and Revision: | Revision Number: 0.560 Revision Date: 03-04-2023 |

## 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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