



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

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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. |
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History

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| Update and Revision: | Revision Number: 0.381 Revision Date: 05-26-2021 |
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