



Product: [1592A](#)

Category 5e Patch Cable, 4 Pair, U/UTP, CM

Product Description

Category 5e Premise Patch Cable (200MHz), 4 Pair, 24 AWG Stranded (7x32) Bare Copper Conductors, U/UTP, CM, PVC Jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Premise Patch Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE |
|------------------------|--|

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 |

Outer Jacket

| Material | Nom. Diameter | Ripcord |
|--------------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.213 in (5.41 mm) | No |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.213 in (5.41 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Max. Conductor DCR | Max. Capacitance Unbalance |
|-------------------------------|----------------------------|
| 93.8 Ohm/km (28.6 Ohm/1000ft) | 330 pF/100m |

Delay

| Frequency | Max. Delay | Max. Delay Skew | Nom. Velocity of Prop. | Typical Delay Skew |
|-----------|---------------|-----------------|------------------------|--------------------|
| 100 MHz | 537.6 ns/100m | 45 ns/100m | 69% | 37 ns/100m |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [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 | 63.8 | 60.8 | 20.0 | 100 ± 15 | 100 ± 15 |
| 4 | 4.9 dB/100m | 56.3 | 53.3 | 51.7 | 48.7 | 23.0 | 100 ± 15 | 100 ± 15 |
| 8 | 6.9 dB/100m | 51.8 | 48.8 | 45.7 | 42.7 | 24.5 | 100 ± 15 | 100 ± 15 |
| 10 | 7.8 dB/100m | 50.3 | 47.3 | 43.8 | 40.8 | 25.0 | 100 ± 15 | 100 ± 15 |
| 16 | 9.9 dB/100m | 47.3 | 44.2 | 39.7 | 36.7 | 25.0 | 100 ± 15 | 100 ± 15 |
| 20 | 11.1 dB/100m | 45.8 | 42.8 | 37.7 | 34.7 | 25.0 | 100 ± 15 | 100 ± 15 |
| 25 | 12.5 dB/100m | 44.3 | 41.3 | 35.8 | 32.8 | 24.3 | 100 ± 15 | 100 ± 15 |
| 31.25 | 14.1 dB/100m | 42.9 | 39.9 | 33.9 | 30.9 | 23.6 | 100 ± 15 | 100 ± 15 |
| 62.5 | 20.4 dB/100m | 38.4 | 35.4 | 27.8 | 24.8 | 21.5 | 100 ± 15 | 100 ± 15 |
| 100 | 26.4 dB/100m | 35.3 | 32.3 | 23.8 | 20.8 | 20.1 | 100 ± 15 | 100 ± 15 |
| 155 | 33.7 dB/100m | 32.5 | 29.4 | 19.9 | 16.9 | 15.8 | 100 ± 25 | 100 ± 15 |

| | | | | | | | | |
|-----|--------------|------|------|------|------|------|----------|----------|
| 200 | 38.9 dB/100m | 30.8 | 27.8 | 17.7 | 14.7 | 15.0 | 100 ± 25 | 100 ± 15 |
|-----|--------------|------|------|------|------|------|----------|----------|

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CM) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating | Installation | Storage |
|----------------|----------------|--------------|----------------|
| 75°C | -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) | 2.25 in (57.2 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 25 lbs (11 kg) |
| Bulk Cable Weight: | 22 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------------|---|
| Environmental Suitability: | Indoor (Not Riser or Plenum), Indoor |
| Sustainability: | Product Lens™, Environmental Product Declaration (EPD) Available |
| Flammability / Reaction to Fire: | UL 1685 (UL Loading-Limited Smoke) |
| NEC / UL Compliance: | Article 800, CM |
| CEC / C(UL) Compliance: | CM |
| ICEA Compliance: | S-90-661 |
| IEEE Compliance: | IEEE 802.3bt Type 1, Type 2, Type 3 |
| NEMA Compliance: | NEMA WC-63.1 |
| Data Category: | Category 5e |
| TIA/EIA Compliance: | ANSI/TIA-568.2-D Category 5e |
| Third Party Performance Verification: | Category 5e Patch |
| ISO/IEC Compliance: | ISO/IEC 11801-1, IEC 61156-6 |
| European Directive Compliance: | EU CE Mark, 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. Print Includes Descending Footage Markings. |
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History

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| Update and Revision: | Revision Number: 0.547 Revision Date: 01-20-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|----------------|--------|------------|----------|--------------|----------|
| 1592A 0101000 | Black | Reel | 1,000 ft | 612825118749 | C |
| 1592A 010U1000 | Black | UnReel | 1,000 ft | 612825118732 | |
| 1592A 0061000 | Blue | Reel | 1,000 ft | 612825118688 | C |
| 1592A 006U1000 | Blue | UnReel | 1,000 ft | 612825118671 | |
| 1592A F2V1000 | Gray | Reel | 1,000 ft | 612825118589 | |
| 1592A F2VU1000 | Gray | UnReel | 1,000 ft | 612825118572 | |
| 1592A 0051000 | Green | Reel | 1,000 ft | 612825118664 | C |
| 1592A 005U1000 | Green | UnReel | 1,000 ft | 612825118657 | |
| 1592A 0031000 | Orange | Reel | 1,000 ft | 612825118626 | C |
| 1592A 003U1000 | Orange | UnReel | 1,000 ft | 612825118619 | |
| 1592A 0071000 | Purple | Reel | 1,000 ft | 612825118701 | C |
| 1592A 007U1000 | Purple | UnReel | 1,000 ft | 612825118695 | |
| 1592A 0021000 | Red | Reel | 1,000 ft | 612825118602 | C |
| 1592A 002U1000 | Red | UnReel | 1,000 ft | 612825118596 | |
| 1592A 0091000 | White | Reel | 1,000 ft | 612825118725 | C |
| 1592A 009U1000 | White | UnReel | 1,000 ft | 612825118718 | |

| | | | | | |
|----------------|--------|--------|----------|--------------|--|
| 1592A 0041000 | Yellow | Reel | 1,000 ft | 612825118640 | |
| 1592A 004U1000 | Yellow | UnReel | 1,000 ft | 612825118633 | |

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