




Product: [1872A](#) 

Category 6+ Cable, 4 Bonded-Pairs, U/UTP, CMR

Product Description

Category 6+ Premise Horizontal Cable (350MHz), 4 Bonded-Pairs, 23 AWG Solid Bare Copper Conductors, U/UTP, Riser-CMR, PVC Jacket

Technical Specifications

Product Overview

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

| Size | Stranding | Material | Number of Pairs |
|--------|-----------|------------------|-----------------|
| 23 AWG | Solid | BC - Bare Copper | 4 |

Insulation

| Material | Color Code |
|--------------------|--|
| PP - Polypropylene | White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown |

| | |
|--------------|-----|
| Bonded-Pair: | Yes |
|--------------|-----|

Outer Jacket

| Material | Nom. Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.365 x 0.165 in | Yes |

| | |
|-----------------------------------|------------------|
| Overall Cable Diameter (Nominal): | 0.365 x 0.165 in |
|-----------------------------------|------------------|

Electrical Characteristics

Electricals

| Max. Conductor DCR | Max. Capacitance Unbalance |
|--------------------|----------------------------|
| 75 Ohm/km | 49 pF/100m |

Delay

| Frequency | Max. Delay | Max. Delay Skew | Nom. Velocity of Prop. |
|-----------|---------------|-----------------|------------------------|
| 100 MHz | 537.6 ns/100m | 25 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) | Max./Min. Fitted Impedance |
|-----------------|-----------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|--------------------------------------|----------------------------|
| 1 | 1.9 dB/100m | 75.3 | 75.3 | 73.4 | 73.4 | 67.8 | 64.8 | 20.0 | 100 ± 12 Ohm | 100 ± 15 Ohm |
| 4 | 3.7 dB/100m | 66.3 | 66.3 | 62.6 | 62.6 | 55.7 | 52.8 | 23.0 | 100 ± 12 Ohm | 100 ± 15 Ohm |
| 8 | 5.3 dB/100m | 61.8 | 61.8 | 56.5 | 56.5 | 49.7 | 46.7 | 24.5 | 100 ± 12 Ohm | 100 ± 15 Ohm |
| 10 | 5.9 dB/100m | 60.3 | 60.3 | 54.4 | 54.4 | 47.8 | 44.8 | 25.0 | 100 ± 12 Ohm | 100 ± 15 Ohm |
| 16 | 7.5 dB/100m | 57.2 | 57.2 | 49.7 | 49.7 | 43.7 | 40.7 | 25.0 | 100 ± 12 Ohm | 100 ± 8 Ohm |
| 20 | 8.4 dB/100m | 55.8 | 55.8 | 47.3 | 47.3 | 41.8 | 38.8 | 25.0 | 100 ± 12 Ohm | 100 ± 8 Ohm |
| 25 | 9.5 dB/100m | 54.3 | 54.3 | 44.9 | 44.9 | 39.8 | 36.8 | 24.3 | 100 ± 15 Ohm | 100 ± 8 Ohm |
| 31.25 | 10.6 dB/100m | 52.9 | 52.9 | 42.2 | 42.2 | 37.9 | 34.9 | 23.6 | 100 ± 15 Ohm | 100 ± 8 Ohm |

| | | | | | | | | | | |
|------|--------------|------|------|------|------|------|------|------|--------------|-------------|
| 62.5 | 15.4 dB/100m | 48.4 | 48.4 | 33.0 | 33.0 | 31.8 | 28.9 | 21.5 | 100 ± 15 Ohm | 100 ± 8 Ohm |
| 100 | 19.8 dB/100m | 45.3 | 45.3 | 25.5 | 25.5 | 27.8 | 24.8 | 21.0 | 100 ± 15 Ohm | 100 ± 8 Ohm |
| 155 | 25.1 dB/100m | 42.4 | 42.4 | 17.3 | 17.3 | 24.0 | 21.0 | 21.0 | 100 ± 15 Ohm | 100 ± 8 Ohm |
| 200 | 29.0 dB/100m | 40.8 | 40.8 | 11.8 | 11.8 | 21.7 | 18.8 | 21.0 | 100 ± 15 Ohm | 100 ± 8 Ohm |
| 250 | 32.8 dB/100m | 39.3 | 39.3 | 6.5 | 6.5 | 19.8 | 16.8 | 18.0 | 100 ± 20 Ohm | 100 ± 8 Ohm |
| 300 | 36.4 dB/100m | 38.1 | 38.1 | 1.7 | 1.7 | 18.3 | 15.3 | 18.0 | 100 ± 20 Ohm | 100 ± 8 Ohm |
| 310 | 39.8 dB/100m | 37.1 | 37.1 | -2.6 | -2.6 | 16.9 | 13.9 | 17.0 | 100 ± 22 Ohm | 100 ± 8 Ohm |
| 350 | 43.0 dB/100m | 36.3 | 36.3 | | | 15.8 | 12.8 | 14.0 | 100 ± 32 Ohm | 100 ± 8 Ohm |
| 400 | 46.0 dB/100m | 35.5 | 35.5 | | | 14.7 | 11.7 | 14.0 | 100 ± 32 Ohm | 100 ± 8 Ohm |
| 500 | 48.9 dB/100m | 34.8 | 34.8 | | | 13.8 | 10.8 | 14.0 | 100 ± 32 Ohm | 100 ± 8 Ohm |
| 550 | 51.8 dB/100m | 34.2 | 34.2 | | | 13.0 | 10.0 | 14.0 | 100 ± 32 Ohm | 100 ± 8 Ohm |

Voltage

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

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. |
|-----------------|-------------------|
| 0.5 in (13 mm) | 1.75 in (44.5 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 40 lbs (18 kg) |
| Bulk Cable Weight: | 32 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------------|---|
| Environmental Suitability: | Riser, Indoor |
| Sustainability: | Product Lens™, Environmental Product Declaration (EPD) Available |
| Flammability / Reaction to Fire: | UL 1666 Riser, FT4, FT4, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca; CPR UKCA Class: Eca |
| NEC / UL Compliance: | Article 800, CMR |
| CEC / C(UL) Compliance: | CMR |
| ICEA Compliance: | S-116-732-2013 |
| IEEE Compliance: | IEEE 802.3bt Type 1, Type 2, Type 3, Type 4 |
| NEMA Compliance: | ANSI/NEMA WC-66 |
| Data Category: | Category 6 |
| TIA/EIA Compliance: | ANSI/TIA-568.2-D Category 6 |
| Third Party Performance Verification: | Category 6 |
| ISO/IEC Compliance: | ISO/IEC 11801-1, IEC 61156-5 |
| 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 |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Plenum Number: | 1874A |

Product Notes

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| Notes: | Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 350 MHz are for Engineering Information Only. Print Includes Descending Footage Markings from Max. Put-Up Length to 0. |
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History

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| Update and Revision: | Revision Number: 0.476 Revision Date: 02-16-2022 |
|----------------------|--|

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|-------|-------------|----------|--------------|
| 1872A 0101000 | Black | Reel | 1,000 ft | 612825125464 |
| 1872A 0061000 | Blue | Reel | 1,000 ft | 612825125419 |
| 1872A 006A1000 | Blue | Reel-in-Box | 1,000 ft | 612825125402 |

| | | | | |
|----------------|--------|-------------|----------|--------------|
| 1872A X6G1000 | Gold | Reel | 1,000 ft | 612825125310 |
| 1872A X6GA1000 | Gold | Reel-in-Box | 1,000 ft | 612825125303 |
| 1872A F6H1000 | Gray | Reel | 1,000 ft | 612825125297 |
| 1872A F6HA1000 | Gray | Reel-in-Box | 1,000 ft | 612825320647 |
| 1872A 0051000 | Green | Reel | 1,000 ft | 612825125396 |
| 1872A 005A1000 | Green | Reel-in-Box | 1,000 ft | 612825125389 |
| 1872A 0031000 | Orange | Reel | 1,000 ft | 612825125358 |
| 1872A 003A1000 | Orange | Reel-in-Box | 1,000 ft | 612825125341 |
| 1872A 0071000 | Purple | Reel | 1,000 ft | 612825125433 |
| 1872A 007A1000 | Purple | Reel-in-Box | 1,000 ft | 612825125426 |
| 1872A 0021000 | Red | Reel | 1,000 ft | 612825125334 |
| 1872A 002A1000 | Red | Reel-in-Box | 1,000 ft | 612825125327 |
| 1872A 0091000 | White | Reel | 1,000 ft | 612825125457 |
| 1872A 009A1000 | White | Reel-in-Box | 1,000 ft | 612825125440 |
| 1872A 0041000 | Yellow | Reel | 1,000 ft | 612825125372 |
| 1872A 004A1000 | Yellow | Reel-in-Box | 1,000 ft | 612825125365 |

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