



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 <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> . |

#### Construction Details

##### Conductor

| Size   | Stranding | Material         | Number of Pairs |
|--------|-----------|------------------|-----------------|
| 23 AWG | Solid     | 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 |
|--------------|-----|

##### 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 (23 Ohm/1000ft) | 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) [Ohm] | Max./Min. Fitted Impedance [Ohm] |
|-----------------|-----------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|--|----------------------------------|
| 1               | 1.9 dB/100m                       | 75.3           | 75.3             | 73.4          | 73.4            | 67.8                    | 64.8                        | 20.0                       | 100 ± 12                                   | 100 ± 15                         |
| 4               | 3.7 dB/100m                       | 66.3           | 66.3             | 62.6          | 62.6            | 55.7                    | 52.8                        | 23.0                       | 100 ± 12                                   | 100 ± 15                         |
| 8               | 5.3 dB/100m                       | 61.8           | 61.8             | 56.5          | 56.5            | 49.7                    | 46.7                        | 24.5                       | 100 ± 12                                   | 100 ± 15                         |
| 10              | 5.9 dB/100m                       | 60.3           | 60.3             | 54.4          | 54.4            | 47.8                    | 44.8                        | 25.0                       | 100 ± 12                                   | 100 ± 15                         |
| 16              | 7.5 dB/100m                       | 57.2           | 57.2             | 49.7          | 49.7            | 43.7                    | 40.7                        | 25.0                       | 100 ± 12                                   | 100 ± 8                          |
| 20              | 8.4 dB/100m                       | 55.8           | 55.8             | 47.3          | 47.3            | 41.8                    | 38.8                        | 25.0                       | 100 ± 12                                   | 100 ± 8                          |
| 25              | 9.5 dB/100m                       | 54.3           | 54.3             | 44.9          | 44.9            | 39.8                    | 36.8                        | 24.3                       | 100 ± 15                                   | 100 ± 8                          |

|       |              |      |      |      |      |      |      |      |          |         |
|-------|--------------|------|------|------|------|------|------|------|----------|---------|
| 31.25 | 10.6 dB/100m | 52.9 | 52.9 | 42.2 | 42.2 | 37.9 | 34.9 | 23.6 | 100 ± 15 | 100 ± 8 |
| 62.5  | 15.4 dB/100m | 48.4 | 48.4 | 33.0 | 33.0 | 31.8 | 28.9 | 21.5 | 100 ± 15 | 100 ± 8 |
| 100   | 19.8 dB/100m | 45.3 | 45.3 | 25.5 | 25.5 | 27.8 | 24.8 | 21.0 | 100 ± 15 | 100 ± 8 |
| 155   | 25.1 dB/100m | 42.4 | 42.4 | 17.3 | 17.3 | 24.0 | 21.0 | 21.0 | 100 ± 15 | 100 ± 8 |
| 200   | 29.0 dB/100m | 40.8 | 40.8 | 11.8 | 11.8 | 21.7 | 18.8 | 21.0 | 100 ± 15 | 100 ± 8 |
| 250   | 32.8 dB/100m | 39.3 | 39.3 | 6.5  | 6.5  | 19.8 | 16.8 | 18.0 | 100 ± 20 | 100 ± 8 |
| 300   | 36.4 dB/100m | 38.1 | 38.1 | 1.7  | 1.7  | 18.3 | 15.3 | 18.0 | 100 ± 20 | 100 ± 8 |
| 310   | 39.8 dB/100m | 37.1 | 37.1 | -2.6 | -2.6 | 16.9 | 13.9 | 17.0 | 100 ± 22 | 100 ± 8 |
| 350   | 43.0 dB/100m | 36.3 | 36.3 |      |      | 15.8 | 12.8 | 14.0 | 100 ± 32 | 100 ± 8 |
| 400   | 46.0 dB/100m | 35.5 | 35.5 |      |      | 14.7 | 11.7 | 14.0 | 100 ± 32 | 100 ± 8 |
| 500   | 48.9 dB/100m | 34.8 | 34.8 |      |      | 13.8 | 10.8 | 14.0 | 100 ± 32 | 100 ± 8 |
| 550   | 51.8 dB/100m | 34.2 | 34.2 |      |      | 13.0 | 10.0 | 14.0 | 100 ± 32 | 100 ± 8 |

#### Voltage

|                          |
|--------------------------|
| <b>UL Voltage Rating</b> |
| 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, 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   |
| 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

|        |  |
|--------|--|
| 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. |
|--------|--|

### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.534 Revision Date: 01-20-2023 |
|----------------------|--|

### Part Numbers

#### 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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