


Product: [1700A](#)

Category 5E+ Cable, 4 Bonded-Pairs, U/UTP, CMR

Product Description

Category 5E+ Premise Horizontal Cable (350MHz), 4 Bonded-Pairs, 24 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/patents . |

Construction Details
Conductor

| Size | Stranding | Material | No. of Pairs |
|--------|-----------|------------------|--------------|
| 24 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 | 0.202 in (5.13 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.202 in (5.13 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics
Electricals

| Max. Conductor DCR | Max. Capacitance Unbalance |
|---------------------------|----------------------------|
| 90 Ohm/km (27 Ohm/1000ft) | 66 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. PSNEXT [dB] | Min. PSACRF [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Max./Min. Input Impedance (unFitted) [Ohm] | Max./Min. Fitted Impedance [Ohm] | Min. TCL [dB] | Min. ELTCTL [dB] |
|-----------------|-----------------------------------|------------------|------------------|-----------------------------|----------------------------|--|----------------------------------|---------------|------------------|
| 1 | 2.0 dB/100m | 69.3 | 67.3 | 65.8 | 20.0 | 100 ± 12 | 105 ± 10 | 40.0 | 35.0 |
| 4 | 4.0 dB/100m | 60.3 | 56.3 | 53.8 | 23.0 | 100 ± 12 | 100 ± 10 | 40.0 | 23.0 |
| 8 | 5.7 dB/100m | 55.8 | 50.1 | 47.7 | 24.5 | 100 ± 12 | 100 ± 10 | 40.0 | 16.9 |
| 10 | 6.4 dB/100m | 54.3 | 47.9 | 45.8 | 25.0 | 100 ± 12 | 100 ± 10 | 40.0 | 15.0 |
| 16 | 8.1 dB/100m | 51.2 | 43.1 | 41.7 | 25.0 | 100 ± 12 | 100 ± 10 | 38.0 | 10.9 |
| 20 | 9.1 dB/100m | 49.8 | 40.7 | 39.8 | 25.0 | 100 ± 12 | 100 ± 10 | 37.0 | 9.0 |
| 25 | 10.2 dB/100m | 48.3 | 38.2 | 37.8 | 25.0 | 100 ± 15 | 100 ± 10 | 36.0 | 7.0 |
| 31.25 | 11.4 dB/100m | 46.9 | 35.5 | 35.9 | 25.0 | 100 ± 15 | 100 ± 10 | 35.1 | |

| | | | | | | | | | |
|------|--------------|------|------|------|------|----------|----------|------|--|
| 62.5 | 16.4 dB/100m | 42.4 | 26.0 | 29.9 | 25.0 | 100 ± 15 | 100 ± 10 | 32.0 | |
| 100 | 21.0 dB/100m | 39.3 | 18.3 | 25.8 | 25.0 | 100 ± 15 | 100 ± 10 | 30.0 | |
| 155 | 26.6 dB/100m | 36.4 | 9.8 | 22.0 | 19.0 | 100 ± 18 | 100 ± 10 | 28.1 | |
| 200 | 30.4 dB/100m | 34.8 | 4.4 | 19.8 | 19.0 | 100 ± 18 | 100 ± 10 | 27.0 | |
| 250 | 34.4 dB/100m | 32.3 | | 17.8 | 18.0 | 100 ± 20 | 100 ± 10 | 26.0 | |
| 300 | 38.0 dB/100m | 28.1 | | 14.3 | 18.0 | 100 ± 20 | 100 ± 10 | | |
| 350 | 41.4 dB/100m | 27.1 | | 12.9 | 17.0 | 100 ± 20 | 100 ± 10 | | |
| 400 | 44.5 dB/100m | 26.3 | | 11.8 | 17.0 | 100 ± 22 | 100 ± 10 | | |
| 450 | 47.6 dB/100m | 25.5 | | 10.7 | 17.0 | 100 ± 22 | 100 ± 10 | | |

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) | 2.0 in (51 mm) |

Max. Pull Tension: 40 lbs (18 kg)

Bulk Cable Weight: 20 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 |
| NEC / UL Compliance: | Article 800, CMR |
| CEC / C(UL) Compliance: | CMR |
| 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 |
| ISO/IEC Compliance: | ISO/IEC 11801-1, IEC 61156-5 |
| CENELEC Compliance: | Segregation class according EN50174-2 = a |
| 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: | 1701A |

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: 0.528 Revision Date: 09-07-2025 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|----------------|-------|------------|----------|--------------|----------|
| 1700A 0101000 | Black | Reel | 1,000 ft | 612825121589 | C |
| 1700A 010U1000 | Black | UnReel | 1,000 ft | 612825121572 | |

| | | | | | |
|----------------|--------|--------|----------|--------------|---|
| 1700A 006U1000 | Blue | UnReel | 1,000 ft | 612825121503 | |
| 1700A 0061640 | Blue | Reel | 1,640 ft | 612825121527 | C |
| 1700A 0063000 | Blue | Reel | 3,000 ft | | C |
| 1700A 008U1000 | Gray | UnReel | 1,000 ft | 612825121534 | |
| 1700A F2V1000 | Gray | Reel | 1,000 ft | 612825121398 | C |
| 1700A F2VU1000 | Gray | UnReel | 1,000 ft | 612825121381 | |
| 1700A F2V3000 | Gray | Reel | 3,000 ft | 612825121404 | C |
| 1700A 0051000 | Green | Reel | 1,000 ft | 612825121497 | C |
| 1700A 005U1000 | Green | UnReel | 1,000 ft | 612825121480 | |
| 1700A 0031000 | Orange | Reel | 1,000 ft | 612825121459 | C |
| 1700A 003U1000 | Orange | UnReel | 1,000 ft | 612825121442 | |
| 1700A B021000 | Purple | Reel | 1,000 ft | 612825121374 | C |
| 1700A B02U1000 | Purple | UnReel | 1,000 ft | 612825121367 | |
| 1700A 0021000 | Red | Reel | 1,000 ft | 612825121428 | C |
| 1700A 002U1000 | Red | UnReel | 1,000 ft | 612825121411 | |
| 1700A 0023000 | Red | Reel | 3,000 ft | 612825121435 | C |
| 1700A 0091000 | White | Reel | 1,000 ft | 612825121558 | C |
| 1700A 009U1000 | White | UnReel | 1,000 ft | 612825121541 | C |
| 1700A 0093000 | White | Reel | 3,000 ft | 612825121565 | C |
| 1700A 004U1000 | Yellow | UnReel | 1,000 ft | 612825121466 | |

Footnote: C - CRATE REEL PUT-UP.

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