Belden



# Product: 5e LAN Category 5e CMR

Category 5e Cable, 4 Pair, U/UTP, CMR

## Product Description

Category 5e Premise Horizontal Cable (200MHz), 4 Pair, 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. |

### Product Life Cycle

| | |
|---|---|
| Availability: | Americas |

### 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 |

**Outer Jacket**

| Material | Nom. Diameter | Ripcord |
|---|---|---|
| PVC - Polyvinyl Chloride | 0.190 in (4.83 mm) | Yes |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.190 in (4.83 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. |
|---|---|---|---|
| 100 MHz | 537.6 ns/100m | 45 ns/100m | 70% |

**High Frequency**

| Frequency [MHz] | Max. Insertion Loss (Attenuation) [dB/100m] | 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 | 2.0 | 65.3 | 62.3 | 63.3 | 60.3 | 63.8 | 60.8 | 20.0 | 100 ± 15 | 100 ± 15 |
| 4 | 4.1 | 56.3 | 53.3 | 52.2 | 49.2 | 51.8 | 48.8 | 23.0 | 100 ± 15 | 100 ± 15 |
| 8 | 5.8 | 51.8 | 48.8 | 46.0 | 43.0 | 45.7 | 42.7 | 24.5 | 100 ± 15 | 100 ± 15 |
| 10 | 6.5 | 50.3 | 47.3 | 43.8 | 40.8 | 43.8 | 40.8 | 25.0 | 100 ± 15 | 100 ± 15 |
| 16 | 8.2 | 47.2 | 44.2 | 39.0 | 36.0 | 39.7 | 36.7 | 25.0 | 100 ± 15 | 100 ± 15 |
| 20 | 9.3 | 45.8 | 42.8 | 36.5 | 33.5 | 37.8 | 34.8 | 25.0 | 100 ± 15 | 100 ± 15 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 10.4 | 44.3 | 41.3 | 33.9 | 30.9 | 35.8 | 32.8 | 24.3 | 100 ± 15 | 100 ± 15 |
| 31.25 | 11.7 | 42.9 | 39.9 | 31.2 | 28.2 | 33.9 | 30.9 | 23.6 | 100 ± 15 | 100 ± 15 |
| 62.5 | 17.0 | 38.4 | 35.4 | 21.4 | 18.4 | 27.9 | 24.9 | 21.5 | 100 ± 15 | 100 ± 15 |
| 100 | 22.0 | 35.3 | 32.3 | 13.3 | 10.3 | 23.8 | 20.8 | 20.1 | 100 ± 15 | 100 ± 15 |
| 155 | 28.1 | 32.4 | 29.4 | 4.4 | 1.4 | 20.0 | 17.0 | 18.8 | | |
| 200 | 32.4 | 30.8 | 27.8 | | | 17.8 | 14.8 | 18.0 | | |

**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. |
|---|---|
| 1.0 in (25 mm) | 2.0 in (51 mm) |

| | |
|---|---|
| Max. Pull Tension: | 25 lbs (11 kg) |
| Bulk Cable Weight: | 18 lbs/1000ft (27 kg/km) |

## Standards and Compliance

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|---|---|
| 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 |
| 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) |

## 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 100 MHz are for Engineering Information Only. Print Includes Descending Footage Markings from Max. Put-Up Length to 0. |

## History

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|---|---|
| Update and Revision: | Revision Number: 0.8 Revision Date: 07-27-2026 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC |
|---|---|---|---|---|
| M58010B | Black | Box | 1,000 ft | |
| M57553B | Blue, Light | Box | 1,000 ft | 799936110487 |
| M57552B | Gray | Box | 1,000 ft | 799936110470 |
| M57557B | Green, Dark | Box | 1,000 ft | |
| M57554B | White | Box | 1,000 ft | 799936110517 |
| M57556B | Yellow | Box | 1,000 ft | 799936111156 |

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