



Product: [1533R](#) 

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

Product Description

Category 5e Premise Horizontal Cable (100MHz), 4 Pair, 24 AWG Solid Bare Copper Conductors, F/UTP - Foil Shielded, 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 , Noisy Environments |
| 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/Green Stripe & Green, White/Orange Stripe & Orange, White/Brown Stripe & Brown |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------------------|----------|------------------|
| Tape | Polyester + Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |

Outer Jacket

| Material | Nom. Diameter | Ripcord |
|--------------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.260 in (6.60 mm) | No |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.260 in (6.60 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) | 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 dB/100m | 65.3 | 62.3 | 63.3 | 60.3 | 63.8 | 60.8 | 20.0 | 100 ± 15 | 100 ± 15 |
| 4 | 4.1 dB/100m | 56.3 | 53.3 | 52.2 | 49.2 | 51.8 | 48.8 | 23.0 | 100 ± 15 | 100 ± 15 |
| 8 | 5.8 dB/100m | 51.8 | 48.8 | 46.0 | 43.0 | 45.7 | 42.7 | 24.5 | 100 ± 15 | 100 ± 15 |
| 10 | 6.5 dB/100m | 50.3 | 47.3 | 43.8 | 40.8 | 43.8 | 40.8 | 25.0 | 100 ± 15 | 100 ± 15 |
| 16 | 8.2 dB/100m | 47.2 | 44.2 | 39.0 | 36.0 | 39.7 | 36.7 | 25.0 | 100 ± 15 | 100 ± 15 |

| | | | | | | | | | | |
|-------|--------------|------|------|------|------|------|------|------|----------|----------|
| 20 | 9.3 dB/100m | 45.8 | 42.8 | 36.5 | 33.5 | 37.8 | 34.8 | 25.0 | 100 ± 15 | 100 ± 15 |
| 25 | 10.4 dB/100m | 44.3 | 41.3 | 33.9 | 30.9 | 35.8 | 32.8 | 24.3 | 100 ± 15 | 100 ± 15 |
| 31.25 | 11.7 dB/100m | 42.9 | 39.9 | 31.2 | 28.2 | 33.9 | 30.9 | 23.6 | 100 ± 15 | 100 ± 15 |
| 62.5 | 17.0 dB/100m | 38.4 | 35.4 | 21.4 | 18.4 | 27.9 | 24.9 | 21.5 | 100 ± 15 | 100 ± 15 |
| 100 | 22.0 dB/100m | 35.3 | 32.3 | 13.3 | 10.3 | 23.8 | 20.8 | 20.1 | 100 ± 15 | 100 ± 15 |
| 155 | 28.1 dB/100m | 32.4 | 29.4 | 4.4 | 1.4 | 20.0 | 17.0 | 18.8 | | |
| 200 | 32.4 dB/100m | 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) | 2.25 in (57.2 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 25 lbs (11 kg) |
| Bulk Cable Weight: | 30 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-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) |
| Plenum Number: | 1533P |

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. Shield is Bonded to Jacket Inner Wall for Electrical Stability. Print Includes Descending Footage/Meter Markings from Max. Put-Up Length to 0. |
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History

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| Update and Revision: | Revision Number: 0.561 Revision Date: 09-07-2025 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|----------------|-------|-------------|----------|--------------|----------|
| 1533R 0101000 | Black | Reel | 1,000 ft | 612825117582 | C |
| 1533R 010A1000 | Black | Reel-in-Box | 1,000 ft | 612825117575 | |
| 1533R 0061000 | Blue | Reel | 1,000 ft | 612825117568 | C |
| 1533R 006A1000 | Blue | Reel-in-Box | 1,000 ft | 612825117551 | |

| | | | | | |
|----------------|--------|-------------|----------|--------------|---|
| 1533R F2V1000 | Gray | Reel | 1,000 ft | 612825117452 | C |
| 1533R F2VA1000 | Gray | Reel-in-Box | 1,000 ft | 612825117445 | |
| 1533R F2V1640 | Gray | Reel | 1,640 ft | 612825117469 | C |
| 1533R 0051000 | Green | Reel | 1,000 ft | 612825117544 | C |
| 1533R 005A1000 | Green | Reel-in-Box | 1,000 ft | 612825117537 | C |
| 1533R 0031000 | Orange | Reel | 1,000 ft | 612825117506 | C |
| 1533R 003A1000 | Orange | Reel-in-Box | 1,000 ft | 612825117490 | C |
| 1533R 0021000 | Red | Reel | 1,000 ft | 612825117483 | C |
| 1533R 002A1000 | Red | Reel-in-Box | 1,000 ft | 612825117476 | C |
| 1533R 0041000 | Yellow | Reel | 1,000 ft | 612825117520 | C |
| 1533R 004A1000 | Yellow | Reel-in-Box | 1,000 ft | 612825117513 | C |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
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