



Product: [1624R](#)

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

Product Description

Category 5 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 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE , Noisy Environments |
|------------------------|---|

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 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 |
|-------------------------------|
| 93.8 Ohm/km (28.6 Ohm/1000ft) |

Delay

| Max. Delay | Max. Delay Skew | Nom. Velocity of Prop. |
|-------------|-----------------|------------------------|
| 538 ns/100m | 45 ns/100m | 67% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. SRL (Structural Return Loss) [dB] | Max./Min. Fitted Impedance [Ohm] |
|-----------------|-----------------------------------|----------------|------------------|--|----------------------------------|
| 1 | 2.0 dB/100m | 62.2 | 62.3 | 23 | 100 ± 15 |
| 4 | 4.1 dB/100m | 53.3 | 53.3 | 23 | 100 ± 15 |
| 8 | 5.8 dB/100m | 48.8 | 48.8 | 23 | 100 ± 15 |
| 10 | 6.5 dB/100m | 47.3 | 47.3 | 23 | 100 ± 15 |
| 16 | 8.2 dB/100m | 44.3 | 44.3 | 23 | 100 ± 15 |
| 20 | 9.3 dB/100m | 42.8 | 42.8 | 23 | 100 ± 15 |
| 25 | 10.4 dB/100m | 41.3 | 41.3 | 22 | 100 ± 15 |

| | | | | | |
|-------|--------------|------|------|------|----------|
| 31.25 | 11.7 dB/100m | 39.9 | 39.9 | 21.1 | 100 ± 15 |
| 62.5 | 17.0 dB/100m | 35.4 | 35.4 | 18 | 100 ± 15 |
| 100 | 22.0 dB/100m | 32.2 | 32.3 | 16 | 100 ± 15 |

Voltage

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

Mechanical Characteristics

Temperature

| |
|------------------|
| Operating |
| -20°C To +75°C |

Bend Radius

| | |
|------------------------|--------------------------|
| Stationary Min. | Installation Min. |
| 1 in (25 mm) | 2.6 in (66 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 25 lbs (11 kg) |
| Bulk Cable Weight: | 30 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Riser, Indoor |
| 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 |
| IEEE Compliance: | IEEE 802.3bt Type 1, Type 2, Type 3 |
| Data Category: | Category 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: | 1624P |

Product Notes

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| Notes: | Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Shield is bonded to jacket inner wall for electrical stability. RJ-45 Compatible. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5. |
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History

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| Update and Revision: | Revision Number: 0.356 Revision Date: 05-31-2024 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|----------------|--------|-------------|----------|--------------|----------|
| 1624R 0061000 | Blue | Reel | 1,000 ft | 612825119623 | C Z |
| 1624R 006A1000 | Blue | Reel-in-Box | 1,000 ft | 612825119616 | C Z |
| 1624R F2V1000 | Gray | Reel | 1,000 ft | 612825119517 | C Z |
| 1624R F2VA1000 | Gray | Reel-in-Box | 1,000 ft | 612825119500 | C Z |
| 1624R F2V1640 | Gray | Reel | 1,640 ft | 612825119524 | Z |
| 1624R 0051000 | Green | Reel | 1,000 ft | 612825119609 | C Z |
| 1624R 005A1000 | Green | Reel-in-Box | 1,000 ft | 612825119593 | C Z |
| 1624R 0031000 | Orange | Reel | 1,000 ft | 612825119562 | C Z |
| 1624R 003A1000 | Orange | Reel-in-Box | 1,000 ft | 612825119555 | C Z |
| 1624R B021000 | Purple | Reel | 1,000 ft | 612825119494 | C Z |
| 1624R B02A1000 | Purple | Reel-in-Box | 1,000 ft | 612825119487 | C Z |
| 1624R 0021000 | Red | Reel | 1,000 ft | 612825119548 | C Z |
| 1624R 002A1000 | Red | Reel-in-Box | 1,000 ft | 612825119531 | C Z |
| 1624R 0041000 | Yellow | Reel | 1,000 ft | 612825119586 | C Z |
| 1624R 004A1000 | Yellow | Reel-in-Box | 1,000 ft | 612825119579 | C Z |

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