

1624R Paired - Category 5 Unbonded-Pair Cables

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|   | <p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : Termination Instructions for Shielded UTP.pdf</p> |
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Description:

24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, Beldfoil® shield, drain wire, RJ-45 compatible, see color code chart (below), PVC jacket (red, orange, yellow, green blue, purple or light gray).

SUITABLE APPLICATIONS:

Suitable Applications Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, 100MHz Category 5

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

| | |
|----------------------------|------------------|
| Number of Pairs | 4 |
| Total Number of Conductors | 8 |
| AWG | 24 |
| Stranding | Solid |
| Conductor Material | BC - Bare Copper |

INSULATION:

| | |
|---------------------|-----------------|
| Insulation Material | PO - Polyolefin |
|---------------------|-----------------|

Pair Color Code Chart :

| Number | Color | Number | Color |
|--------|-------------------------------|--------|----------------------------|
| 1 | White/Blue Stripe & Blue | 3 | White/Green Stripe & Green |
| 2 | White /Orange Stripe & Orange | 4 | White/Brown Stripe & Brown |

OUTER SHIELD:

| | |
|----------------------------------|------------------------------|
| Outer Shield Material Trade Name | Beldfoil® |
| Outer Shield Type | Tape |
| Outer Shield Material | Aluminum Foil-Polyester Tape |
| Outer Shield % Coverage | 100 % |

OUTER SHIELD DRAIN WIRE :

| | |
|--|--------------------|
| Outer Shield Drain Wire AWG | 24 |
| Outer Shield Drain Wire Stranding | 7x32 |
| Outer Shield Drain Wire Conductor Material | TC - Tinned Copper |

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OUTER JACKET:

| | |
|-----------------------|--------------------------|
| Outer Jacket Material | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|----------|
| Overall Nominal Diameter | .260 in. |
|--------------------------|----------|

MECHANICAL CHARACTERISTICS:

| | |
|----------------------------------|-----------------|
| Operating Temperature Range | -20°C To +75°C |
| Bulk Cable Weight | 30 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 25 lbs. |
| Min. Bend Radius (Install) | 1 in. |

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

| | |
|---------------------------------------|--|
| NEC/(UL) Specification | CMR, UL444 |
| CEC/C(UL) Specification | CMR |
| IEC Specification | 11801 Category 5 |
| EU CE Mark (Y/N) | Yes |
| EU RoHS Compliant (Y/N) | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| TIA/EIA Specification | 568-B.2 Category 5 |
| Other Specification | NEMA WC-63.1 Category 5, UL Verified to Category 5 |

FLAME TEST:

| | |
|----------------|--------------|
| UL Flame Test | UL1666 Riser |
| CSA Flame Test | FT4 |

PLENUM/NON-PLENUM:

| | |
|---------------|-------|
| Plenum (Y/N) | N |
| Plenum Number | 1624P |

ELECTRICAL CHARACTERISTICS:

| | |
|---|-----------------------|
| Nom. Mutual Capacitance @ 1 KHz | 15 pF/ft |
| Maximum Capacitance Unbalance (pF/100 m) | 300 pF/100 m |
| Nominal Velocity of Propagation | 67 % |
| Maximum Delay (ns/100 m) | 538 @ 100MHz ns/100 m |
| Maximum Delay Skew (ns/100m) | 45 ns/100 m |
| Maximum Conductor DC Resistance @ 20 Deg. C | 9.38 Ohms/100 m |
| Maximum DCR Unbalance @ 20 Deg. C | 3 % |
| Max. Operating Voltage - UL | 300 V RMS |

ELECTRICAL CHARACTERISTICS - PREMISE:

| | |
|-----------------------------|--|
| Premise Cable Electricals : | |
|-----------------------------|--|

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| Frequency (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. Structural Return Loss (dB) | Fitted Impedance (Ohms) |
|-----------------|-----------------------------|----------------|------------------|----------------------------------|-------------------------|
| 1 | 2.0 | 62.2 | 62.3 | 23.0 | 100 ± 15% |
| 4 | 4.1 | 53.3 | 53.3 | 23.0 | 100 ± 15% |
| 8 | 5.8 | 48.8 | 48.8 | 23.0 | 100 ± 15% |
| 10 | 6.5 | 47.3 | 47.3 | 23.0 | 100 ± 15% |
| 16 | 8.2 | 44.3 | 44.3 | 23.0 | 100 ± 15% |
| 20 | 9.3 | 42.8 | 42.8 | 23.0 | 100 ± 15% |
| 25 | 10.4 | 41.3 | 41.3 | 22.0 | 100 ± 15% |
| 31.25 | 11.7 | 39.9 | 39.9 | 21.1 | 100 ± 15% |
| 62.5 | 17.0 | 35.4 | 35.4 | 18.0 | 100 ± 15% |
| 100 | 22.0 | 32.2 | 32.3 | 16.0 | 100 ± 15% |

NOTES:

Notes

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.

PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|----------------|--------------------|--------------|--------------------|--------------|-------|
| 1624R 0021000 | 4 PR #24 PP FS PVC | 1000 | 33 | RED | C |
| 1624R 002A1000 | 4 PR #24 PP FS PVC | A1000 | 36 | RED | |
| 1624R 0031000 | 4 PR #24 PP FS PVC | 1000 | 33 | ORANGE | C |
| 1624R 003A1000 | 4 PR #24 PP FS PVC | A1000 | 36 | ORANGE | |
| 1624R 0041000 | 4 PR #24 PP FS PVC | 1000 | 33 | YELLOW | C |
| 1624R 004A1000 | 4 PR #24 PP FS PVC | A1000 | 36 | YELLOW | |
| 1624R 0051000 | 4 PR #24 PP FS PVC | 1000 | 33 | GREEN, DARK | C |
| 1624R 005A1000 | 4 PR #24 PP FS PVC | A1000 | 36 | GREEN, DARK | |
| 1624R 0061000 | 4 PR #24 PP FS PVC | 1000 | 33 | BLUE, LIGHT | C |
| 1624R 006A1000 | 4 PR #24 PP FS PVC | A1000 | 36 | BLUE, LIGHT | |
| 1624R B021000 | 4 PR #24 PP FS PVC | 1000 | 33 | PURPLE | |
| 1624R B02A1000 | 4 PR #24 PP FS PVC | A1000 | 36 | PURPLE | |
| 1624R F2V1000 | 4 PR #24 PP FS PVC | 1000 | 33 | GRAY, DEC | C |
| 1624R F2V1640 | 4 PR #24 PP FS PVC | 1640 | 54.12 | GRAY, DEC | |
| 1624R F2VA1000 | 4 PR #24 PP FS PVC | A1000 | 36 | GRAY, DEC | |

C = CRATE REEL PUT-UP.

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