

1500A Multi-Conductor - Enhanced Category 5e Nonbonded-Pair Cable



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Available**
1-800-BELDEN1

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**General Description:**

CAT5e+ (350MHz), 4-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, Ripcord, PVC jacket.

Usage (Overall)**Suitable Applications:**

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG
 ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video,
 AES/EBU, Digital Video, RS-422

Physical Characteristics (Overall)**Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 24 | Solid | BC - Bare Copper |

Total Number of Conductors:

8

Insulation**Insulation Material:**

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

Outer Shield**Outer Shield Material:**

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket**Outer Jacket Material:**

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

Outer Jacket Ripcord:

Yes

Overall Cable**Overall Nominal Diameter:**

5.080 mm

Pair**Pair Color Code Chart:**

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

Mechanical Characteristics (Overall)**Operating Temperature Range:**

-20°C To +80°C

Bulk Cable Weight:

31.252 Kg/Km

Max. Recommended Pulling Tension:

155.687 N

Min. Bend Radius/Minor Axis:

12.700 mm

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------------------------------------------------|
| NEC/(UL) Specification: | CMR |
| NEC Articles: | 800 |
| CEC/C(UL) Specification: | CMR |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| Other Standards: | 11801 Category 5 |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |
| Telecommunications Standards: | ANSI/TIA/EIA-568-B.2 Category 5e |
| Other Specification: | NEMA WC-63.1 Category 5e, UL Verified to Category 5e |

Flame Test

| | |
|-----------------|-------------------------------------------------------------|
| UL Flame Test: | UL1666 Riser, UL1685 FT4/IEEE 1202 Vertical Tray Flame Test |
| CSA Flame Test: | FT4 |

Suitability

| | |
|------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | No |
| Suitability - Burial: | No |
| Sunlight Resistance: | No |
| Oil Resistance: | No |
| Non-halogenated: | No |

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum Number: | 1501A |
|----------------|-------|

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)

49.215

Maximum Capacitance Unbalance (pF/100 m): 200

Nominal Velocity of Propagation:

VP (%)

70

Maximum Delay:

Delay (ns/100 m)

542.000

Max. Delay Skew:

Delay Skew (ns/100 m)

25

Maximum Conductor DC Resistance:

METRIC MEASUREMENT VERSION

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DCR @ 20°C (Ohm/100 m)

8.900

Max. Operating Voltage - UL:

Voltage

300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

3

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. ACR (dB) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|
| 1 | 2.000 | 70.3 | 68.3 | 68.3 | 66.3 | 20.000 |
| 4 | 4.000 | 61.3 | 59.3 | 57.3 | 55.3 | 23.000 |
| 8 | 5.700 | 56.8 | 54.8 | 51.1 | 49.1 | 24.500 |
| 10 | 6.400 | 55.3 | 53.3 | 48.9 | 46.9 | 25.000 |
| 16 | 8.100 | 52.2 | 50.2 | 44.1 | 42.1 | 25.000 |
| 20 | 9.100 | 50.8 | 48.8 | 41.7 | 39.7 | 25.000 |
| 25 | 10.200 | 49.3 | 47.3 | 39.1 | 37.1 | 24.300 |
| 31.25 | 11.400 | 47.9 | 45.9 | 36.5 | 34.5 | 23.600 |
| 62.5 | 16.400 | 43.4 | 41.4 | 27.0 | 25.0 | 21.500 |
| 100 | 21.000 | 40.3 | 38.3 | 19.3 | 17.3 | 20.100 |
| 155 | 26.600 | 37.4 | 35.4 | 10.9 | 8.9 | 18.800 |
| 200 | 30.500 | 35.8 | 33.8 | 5.3 | 3.3 | 18.000 |
| 250 | 34.400 | 34.3 | 32.3 | 0 | | 17.300 |
| 300 | 38.000 | 33.1 | 31.1 | | | 16.800 |
| 350 | 41.400 | 32.1 | 30.1 | | | 16.300 |
| 400 | 44.600 | 31.3 | 29.3 | | | 15.900 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1 | 100 ± 15 | 105 ± 10 | 67.8 | 64.8 |
| 4 | 100 ± 15 | 100 ± 10 | 55.7 | 52.7 |
| 8 | 100 ± 15 | 100 ± 10 | 49.7 | 46.7 |
| 10 | 100 ± 15 | 100 ± 10 | 47.8 | 44.8 |
| 16 | 100 ± 15 | 100 ± 10 | 43.7 | 40.7 |
| 20 | 100 ± 15 | 100 ± 10 | 41.7 | 38.7 |
| 25 | 100 ± 15 | 100 ± 10 | 39.8 | 36.8 |
| 31.25 | 100 ± 15 | 100 ± 10 | 37.9 | 34.9 |
| 62.5 | 100 ± 15 | 100 ± 10 | 31.9 | 28.9 |
| 100 | 100 ± 15 | 100 ± 10 | 27.8 | 24.8 |
| 155 | 100 ± 22 | 100 ± 10 | 24.0 | 21.0 |
| 200 | 100 ± 22 | 100 ± 10 | 21.8 | 18.8 |
| 250 | 100 ± 22 | 100 ± 10 | 19.8 | 16.8 |
| 300 | | 100 ± 10 | | |
| 310 | | 100 ± 10 | | |
| 350 | | 100 ± 10 | | |

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e. Values above 250 MHz are for Engineering Information Only. US Patent 5424491.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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Revision Number: 1 Revision Date: 02-06-2013

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