

**1700A Multi-Conductor - Enhanced Category 5E Bonded-Pair Cable**

For more Information  
please call

1-800-Belden1

**General Description:**

CAT5e+ (350MHz), 4-Bonded-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 24 AWG Solid Bare Copper Conductors, 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, Noisy Environments, CMR, Riser

**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 Diameter:**

| Nom. Dia. (in.) |
|-----------------|
| 0.200           |

Outer Jacket Ripcord:

Yes

**Overall Cable**

Overall Nominal Diameter:

0.200 in.

**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)**

Storage Temperature Range: -20°C To +75°C

Installation Temperature Range: 0°C To +60°C

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 21 lbs/1000 ft.

Max. Recommended Pulling Tension: 40 lbs.

Min. Bend Radius/Minor Axis: 0.500 in.

Min. Bend/Installation: 2 in.

## 1700A Multi-Conductor - Enhanced Category 5E Bonded-Pair Cable

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                                       |                                                      |
|---------------------------------------|------------------------------------------------------|
| NEC(UL) Specification:                | CMR                                                  |
| CEC/C(UL) Specification:              | CMR                                                  |
| EU Directive 2011/65/EU (ROHS II):    | Yes                                                  |
| 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:         | Category 5e - TIA 568.C.2                            |
| Other Specification:                  | NEMA WC-63.1 Category 5e, UL Verified to Category 5e |

## Applicable Patents:

## Country

www.belden.com/p

## Flame Test

|                   |                         |
|-------------------|-------------------------|
| UL Flame Test:    | UL1666 Vertical Riser   |
| C(UL) Flame Test: | FT4                     |
| IEC Flame Test:   | 60332-3-24 (Category C) |
| IEEE Flame Test:  | 1202                    |

## Plenum/Non-Plenum

|                |       |
|----------------|-------|
| Plenum (Y/N):  | No    |
| Plenum Number: | 1701A |

## Electrical Characteristics (Overall)

## Nom. Mutual Capacitance:

## Capacitance (pF/ft)

15

|                                           |    |
|-------------------------------------------|----|
| Maximum Capacitance Unbalance (pF/100 m): | 66 |
|-------------------------------------------|----|

## Nominal Velocity of Propagation:

## VP (%)

70

## Maximum Delay:

## Delay (ns/100 m)

510

## Max. Delay Skew:

## Delay Skew (ns/100 m)

25

## Maximum Conductor DC Resistance:

## DCR @ 20°C (Ohm/100 m)

9

## 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. PSNEXT (dB) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------------------|------------------|-----------------|-------------|
| 1           | 2.000                       | 69.3             | 67.3            | 20.000      |
| 4           | 4.000                       | 60.3             | 56.3            | 23.000      |

## 1700A Multi-Conductor - Enhanced Category 5E Bonded-Pair Cable

|       |        |      |      |        |
|-------|--------|------|------|--------|
| 8     | 5.700  | 55.8 | 50.1 | 24.500 |
| 10    | 6.400  | 54.3 | 47.9 | 25.000 |
| 16    | 8.100  | 51.2 | 43.1 | 25.000 |
| 20    | 9.100  | 49.8 | 40.7 | 25.000 |
| 25    | 10.200 | 48.3 | 38.2 | 25.000 |
| 31.25 | 11.400 | 46.9 | 35.5 | 25.000 |
| 62.5  | 16.400 | 42.4 | 26.0 | 25.000 |
| 100   | 21.000 | 39.3 | 18.3 | 25.000 |
| 155   | 26.600 | 36.4 | 9.8  | 19.000 |
| 200   | 30.400 | 34.8 | 4.4  | 19.000 |
| 250   | 34.400 | 32.3 | >0   | 18.000 |
| 300   | 38.000 | 28.1 |      | 18.000 |
| 350   | 41.400 | 27.1 |      | 17.000 |
| 400   | 44.500 | 26.3 |      | 17.000 |
| 450   | 47.600 | 25.5 |      | 17.000 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. PSACRF (dB) |
|-------------|------------------------------|------------------|------------------|
| 1           | 100 ± 12                     | 105 ± 10         | 65.8             |
| 4           | 100 ± 12                     | 100 ± 10         | 53.8             |
| 8           | 100 ± 12                     | 100 ± 10         | 47.7             |
| 10          | 100 ± 12                     | 100 ± 10         | 45.8             |
| 16          | 100 ± 12                     | 100 ± 10         | 41.7             |
| 20          | 100 ± 12                     | 100 ± 10         | 39.8             |
| 25          | 100 ± 15                     | 100 ± 10         | 37.8             |
| 31.25       | 100 ± 15                     | 100 ± 10         | 35.9             |
| 62.5        | 100 ± 15                     | 100 ± 10         | 29.9             |
| 100         | 100 ± 15                     | 100 ± 10         | 25.8             |
| 155         | 100 ± 18                     | 100 ± 10         | 22.0             |
| 200         | 100 ± 18                     | 100 ± 10         | 19.8             |
| 250         | 100 ± 20                     | 100 ± 10         | 17.8             |
| 300         | 100 ± 20                     | 100 ± 10         | 14.3             |
| 350         | 100 ± 22                     | 100 ± 10         | 12.9             |
| 400         | 100 ± 22                     | 100 ± 10         | 11.8             |
| 450         | 100 ± 22                     | 100 ± 10         | 10.7             |

Premise Cable Electrical Table 4:

| Frequency (MHz) | Min. TCL (dB) | Min. ELTCTL (dB) |
|-----------------|---------------|------------------|
| 1.000           | 40.000        | 35.000           |
| 4.000           | 40.000        | 23.000           |
| 8.000           | 40.000        | 16.900           |
| 10.000          | 40.000        | 15.000           |
| 16.000          | 38.000        | 10.900           |
| 20.000          | 37.000        | 9.000            |
| 25.000          | 36.000        | 7.000            |
| 31.250          | 35.100        |                  |
| 62.500          | 32.000        |                  |
| 100.000         | 30.000        |                  |
| 155.000         | 28.100        |                  |
| 200.000         | 27.000        |                  |
| 250.000         | 26.000        |                  |

## Notes (Overall)

**Notes:** Belden IBDN. Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2 Category 5e. Values above 350 MHz are for Engineering Information Only

## Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color     | Notes | Item Desc                  |
|----------------|----------|-------------|-----------|-------|----------------------------|
| 1700A B02U1000 | 1,000 FT | 22.000 LB   | PURPLE    |       | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A B021000  | 1,000 FT | 22.000 LB   | PURPLE    | C     | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A F2VU1000 | 1,000 FT | 22.000 LB   | GRAY, DEC |       | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A F2V1000  | 1,000 FT | 22.000 LB   | GRAY, DEC | C     | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A F2V3000  | 3,000 FT | 66.000 LB   | GRAY, DEC | C     | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 002U1000 | 1,000 FT | 22.000 LB   | RED       |       | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A 0021000  | 1,000 FT | 22.000 LB   | RED       | C     | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 0023000  | 3,000 FT | 66.000 LB   | RED       | C     | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 003U1000 | 1,000 FT | 22.000 LB   | ORANGE    |       | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A 0031000  | 1,000 FT | 22.000 LB   | ORANGE    | C     | CAT5E+ 4PRB U/UTP CMR REEL |

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|                |          |           |             |   |                            |
|----------------|----------|-----------|-------------|---|----------------------------|
| 1700A 004U1000 | 1,000 FT | 22.000 LB | YELLOW      |   | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A 005U1000 | 1,000 FT | 22.000 LB | GREEN, DARK |   | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A 005I1000 | 1,000 FT | 22.000 LB | GREEN, DARK | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 006U1000 | 1,000 FT | 22.000 LB | BLUE, LIGHT |   | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A 006I640  | 1,640 FT | 36.080 LB | BLUE, LIGHT | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 0063000  | 3,000 FT | 66.000 LB | BLUE, LIGHT | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 008U1000 | 1,000 FT | 21.000 LB | GRAY        |   | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A 009U1000 | 1,000 FT | 22.000 LB | WHITE       | C | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A 009I1000 | 1,000 FT | 22.000 LB | WHITE       | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 0093000  | 3,000 FT | 66.000 LB | WHITE       | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 010U1000 | 1,000 FT | 22.000 LB | BLACK       |   | CAT5E+ 4PRB U/UTP CMR BOX  |
| 1700A 010I1000 | 1,000 FT | 22.000 LB | BLACK       | C | CAT5E+ 4PRB U/UTP CMR REEL |

**Notes:**

C = CRATE REEL PUT-UP.

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