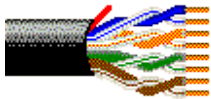


1700A Multi-Conductor - Enhanced Category 5E Bonded-Pair Cable

For more Information
please call

1-800-Belden1



Description:

24 AWG Bonded-Pairs Solid Bare Copper Conductors, Non-Plenum, Polyolefin Insulation, Rip Cord, See Color Code Chart (Below), PVC Jacket (Red, Orange, White, Black, Yellow, Green, Blue, Purple, Light Gray or Gray).

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 ^ US Patent #'s 5606151; 5734126, CMR, Riser

Physical Characteristics (Overall)

Conductor

AWG:

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

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. (mm) |
|----------------|
| 5.131 |

Outer Jacket Ripcord:

Yes

Overall Cabling

Overall Nominal Diameter:

5.131 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)

Bulk Cable Weight:

31.252 Kg/Km

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Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius (Install)/Minor Axis: 25.400 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMR

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 | Patent |
|---------|---------|
| US | 5606151 |
| US | 5734126 |

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/m)

49.215

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:

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

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 | 68.3 | 66.3 | 20.000 |
| 4 | 4.000 | 59.3 | 55.3 | 23.000 |
| 8 | 5.700 | 54.8 | 49.1 | 24.500 |
| 10 | 6.400 | 53.3 | 46.9 | 25.000 |
| 16 | 8.100 | 50.3 | 42.2 | 25.000 |
| 20 | 9.100 | 48.8 | 39.7 | 25.000 |
| 25 | 10.200 | 47.3 | 37.1 | 25.000 |
| 31.25 | 11.400 | 45.9 | 34.5 | 25.000 |
| 62.5 | 16.400 | 41.4 | 25.0 | 25.000 |
| 100 | 21.000 | 38.3 | 17.3 | 25.000 |
| 155 | 26.600 | 35.4 | 8.8 | 19.000 |
| 200 | 30.500 | 33.8 | 3.3 | 19.000 |
| 250 | 34.300 | 32.3 | >0 | 18.000 |
| 300 | 38.000 | 28.2 | | 18.000 |
| 350 | 41.400 | 27.2 | | 17.000 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. PSACRF (dB) |
|-------------|------------------------------|------------------|------------------|
| 1 | 100 ± 12 | 105 ± 10 | 64.8 |
| 4 | 100 ± 12 | 100 ± 10 | 52.8 |
| 8 | 100 ± 12 | 100 ± 10 | 46.7 |
| 10 | 100 ± 12 | 100 ± 10 | 44.8 |
| 16 | 100 ± 12 | 100 ± 10 | 40.7 |
| 20 | 100 ± 12 | 100 ± 10 | 38.8 |
| 25 | 100 ± 15 | 100 ± 10 | 36.8 |
| 31.25 | 100 ± 15 | 100 ± 10 | 34.9 |
| 62.5 | 100 ± 15 | 100 ± 10 | 28.9 |
| 100 | 100 ± 15 | 100 ± 10 | 24.8 |
| 155 | 100 ± 18 | 100 ± 10 | 21.0 |
| 200 | 100 ± 18 | 100 ± 10 | 18.8 |
| 250 | 100 ± 20 | 100 ± 10 | 16.8 |
| 300 | 100 ± 20 | 100 ± 10 | 11.2 |
| 350 | 100 ± 22 | 100 ± 10 | 9.9 |

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)

METRIC MEASUREMENT VERSION

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

Notes: Belden IBDN. Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2 Category 5e

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|--------|-------------|-------------|-------|----------------------------|
| 1700A B02U1000 | 305 MT | 9.525 KG | PURPLE | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A B02I000 | 305 MT | 9.979 KG | PURPLE | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A F2VU1000 | 305 MT | 9.525 KG | GRAY, DEC | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A F2V1000 | 305 MT | 9.979 KG | GRAY, DEC | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A F2V3000 | 914 MT | 28.576 KG | GRAY, DEC | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 002U1000 | 305 MT | 9.525 KG | RED | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A 002I000 | 305 MT | 9.979 KG | RED | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 0023000 | 914 MT | 28.576 KG | RED | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 003U1000 | 305 MT | 9.525 KG | ORANGE | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A 003I000 | 305 MT | 9.979 KG | ORANGE | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 004U1000 | 305 MT | 9.525 KG | YELLOW | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A 004I000 | 305 MT | 9.979 KG | YELLOW | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 005U1000 | 305 MT | 9.525 KG | GREEN, DARK | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A 005I000 | 305 MT | 9.979 KG | GREEN, DARK | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 006U1000 | 305 MT | 9.525 KG | BLUE, LIGHT | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A 006I000 | 305 MT | 9.979 KG | BLUE, LIGHT | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 0061640 | 500 MT | 16.366 KG | BLUE, LIGHT | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 0063000 | 914 MT | 28.576 KG | BLUE, LIGHT | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 008U1000 | 305 MT | 9.525 KG | GRAY | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A 009U1000 | 305 MT | 9.525 KG | WHITE | C | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A 009I000 | 305 MT | 9.979 KG | WHITE | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 0093000 | 914 MT | 28.576 KG | WHITE | C | CAT5E+ 4PRB U/UTP CMR REEL |
| 1700A 010U1000 | 305 MT | 9.525 KG | BLACK | | CAT5E+ 4PRB U/UTP CMR BOX |
| 1700A 010I000 | 305 MT | 9.979 KG | BLACK | C | CAT5E+ 4PRB U/UTP CMR REEL |

Notes:

C = CRATE REEL PUT-UP.

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