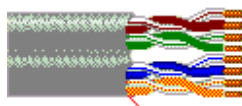


1872A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



For more Information
please call

1-800-Belden1



General Description:

CAT6+ (350MHz), 4-Bonded-Pairs, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductor, 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

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 23 | 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.) |
|-----------------|
| 0.365 |
| 0.165 |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 0.365 x 0.165 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)

Operating Temperature Range: -20°C To +80°C

1872A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

| | |
|--|-----------------|
| Bulk Cable Weight: | 29 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 45 lbs. |
| Min. Bend Radius/Minor Axis: | 0.500 in. |
| Min. Bend/Installation: | 1.500 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|--|-------------------------------------|
| NEC/(UL) Specification: | CMR |
| CEC/C(UL) Specification: | CMR |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| Other Standards: | ISO/IEC 11801 ed 2.1 (2008) Class E |
| EU CE Mark: | No |
| 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 6 - TIA 568.C.2 |

Applicable Patents:

| Country | Patent |
|---------|---------|
| US | 5606151 |
| US | 5821467 |

Flame Test

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

Plenum/Non-Plenum

| | |
|-----------------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 1874A |

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

| Capacitance (pF/ft) |
|---------------------|
| 15.0 |

| | |
|--|----|
| Maximum Capacitance Unbalance (pF/100 m): | 49 |
|--|----|

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 70 |

Maximum Delay:

| Delay (ns/100 m) |
|------------------|
| 510 @ 100MHz |

Max. Delay Skew:

| Delay Skew (ns/100 m) |
|-----------------------|
| 25 |

Maximum Conductor DC Resistance:

| DCR @ 20°C (Ohm/100 m) |
|------------------------|
| 7.500 |

1872A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

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 | 1.900 | 75.3 | 75.3 | 73.4 | 73.4 | 20.000 |
| 4 | 3.700 | 66.3 | 66.3 | 62.6 | 62.6 | 23.000 |
| 8 | 5.300 | 61.8 | 61.8 | 56.5 | 56.5 | 24.500 |
| 10 | 5.900 | 60.3 | 60.3 | 54.4 | 54.4 | 25.000 |
| 16 | 7.500 | 57.2 | 57.2 | 49.7 | 49.7 | 25.000 |
| 20 | 8.400 | 55.8 | 55.8 | 47.3 | 47.3 | 25.000 |
| 25 | 9.500 | 54.3 | 54.3 | 44.9 | 44.9 | 24.300 |
| 31.25 | 10.600 | 52.9 | 52.9 | 42.2 | 42.2 | 23.600 |
| 62.5 | 15.400 | 48.4 | 48.4 | 33.0 | 33.0 | 21.500 |
| 100 | 19.800 | 45.3 | 45.3 | 25.5 | 25.5 | 21.000 |
| 155 | 25.100 | 42.4 | 42.4 | 17.3 | 17.3 | 21.000 |
| 200 | 29.000 | 40.8 | 40.8 | 11.8 | 11.8 | 21.000 |
| 250 | 32.800 | 39.3 | 39.3 | 6.5 | 6.5 | 18.000 |
| 300 | 36.400 | 38.1 | 38.1 | 1.7 | 1.7 | 18.000 |
| 350 | 39.800 | 37.1 | 37.1 | -2.6 | -2.6 | 17.000 |
| 400 | 43.000 | 36.3 | 36.3 | | | 14.000 |
| 450 | 46.000 | 35.5 | 35.5 | | | 14.000 |
| 500 | 48.900 | 34.8 | 34.8 | | | 14.000 |
| 550 | 51.800 | 34.2 | 34.2 | | | 14.000 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ACRF (dB) | Min. PSACRF (dB) |
|-------------|------------------------------|------------------|----------------|------------------|
| 1 | 100 ± 12 | 100 ± 15 | 67.8 | 64.8 |
| 4 | 100 ± 12 | 100 ± 15 | 55.7 | 52.8 |
| 8 | 100 ± 12 | 100 ± 15 | 49.7 | 46.7 |
| 10 | 100 ± 12 | 100 ± 15 | 47.8 | 44.8 |
| 16 | 100 ± 12 | 100 ± 8 | 43.7 | 40.7 |
| 20 | 100 ± 12 | 100 ± 8 | 41.8 | 38.8 |
| 25 | 100 ± 15 | 100 ± 8 | 39.8 | 36.8 |
| 31.25 | 100 ± 15 | 100 ± 8 | 37.9 | 34.9 |
| 62.5 | 100 ± 15 | 100 ± 8 | 31.8 | 28.9 |
| 100 | 100 ± 15 | 100 ± 8 | 27.8 | 24.8 |
| 155 | 100 ± 15 | 100 ± 8 | 24.0 | 21.0 |
| 200 | 100 ± 15 | 100 ± 8 | 21.7 | 18.8 |
| 250 | 100 ± 20 | 100 ± 8 | 19.8 | 16.8 |
| 300 | 100 ± 20 | 100 ± 8 | 18.3 | 15.3 |
| 350 | 100 ± 22 | 100 ± 8 | 16.9 | 13.9 |
| 400 | 100 ± 32 | 100 ± 8 | 15.8 | 12.8 |
| 450 | 100 ± 32 | 100 ± 8 | 14.7 | 11.7 |
| 500 | 100 ± 32 | 100 ± 8 | 13.8 | 10.8 |
| 550 | 100 ± 32 | 100 ± 8 | 13.0 | 10.0 |

Notes (Overall)

Notes: Belden IBDN. Jacket sequentially marked at 2 ft. intervals. Values above 350 MHz are engineering information only. Third party verified to ANSI/TIA-568-C.2, Category 6.

Put Ups and Colors:

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

1872A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable

| | | | | | |
|----------------|----------|-----------|------------------|---|---------------------------|
| 1872A F6HA1000 | 1,000 FT | 36.000 LB | GRAY, DARK PEARL | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A F6H1000 | 1,000 FT | 34.000 LB | GRAY, DARK PEARL | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A X6GA1000 | 1,000 FT | 36.000 LB | GOLD X6G | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A X6G1000 | 1,000 FT | 34.000 LB | GOLD X6G | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A 002A1000 | 1,000 FT | 36.000 LB | RED | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A 0021000 | 1,000 FT | 34.000 LB | RED | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A 003A1000 | 1,000 FT | 36.000 LB | ORANGE | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A 0031000 | 1,000 FT | 34.000 LB | ORANGE | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A 004A1000 | 1,000 FT | 36.000 LB | YELLOW | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A 0041000 | 1,000 FT | 34.000 LB | YELLOW | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A 005A1000 | 1,000 FT | 36.000 LB | GREEN, DARK | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A 0051000 | 1,000 FT | 34.000 LB | GREEN, DARK | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A 006A1000 | 1,000 FT | 36.000 LB | BLUE, LIGHT | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A 0061000 | 1,000 FT | 34.000 LB | BLUE, LIGHT | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A 007A1000 | 1,000 FT | 36.000 LB | VIOLET | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A 0071000 | 1,000 FT | 34.000 LB | VIOLET | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A 009A1000 | 1,000 FT | 36.000 LB | WHITE | | CAT6+ 4PRB U/UTP CMR RIB |
| 1872A 0091000 | 1,000 FT | 34.000 LB | WHITE | C | CAT6+ 4PRB U/UTP CMR REEL |
| 1872A 0101000 | 1,000 FT | 34.000 LB | BLACK | C | CAT6+ 4PRB U/UTP CMR REEL |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 01-07-2014

© 2014 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.