

## CAD110000 Cable Assemblies - CAT6A Performance Modular Cord



For more Information  
please call

1-800-Belden1



### General Description:

CAT6A Performance Patch Cord, 4-Pair, 28 AWG Stranded, CMR, T568A/B-T568A/B, (See Product Family List for colors & lengths)

### Usage (Overall)

|                        |   |
|------------------------|---|
| Suitable Applications: | TIA Category 6A, ISO Class EA, 10GBASE-T                  |
| Related Parts:         | 10GX Modular Jacks, 10GX RJ45 Couplers, 10GX Patch Panels |

### Multi Conductor

#### Physical Characteristics

##### Conductor

###### AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4       | 28  | Stranded  | Tinned Copper      |

##### Insulation

###### Insulation Material:

| Insulation Material       |
|---------------------------|
| High Density Polyethylene |

##### Outer Shield

###### Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material |
|-------------------------|------|-----------------------|
| Floating Screen         | Foil | AL - Aluminum         |

##### Outer Jacket

###### Outer Jacket Material:

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

##### Overall Diameter

|                           |           |
|---------------------------|-----------|
| Overall Nominal Diameter: | 0.186 in. |
|---------------------------|-----------|

### Cable Characteristics (Connectivity)

#### Outer Jacket

##### Outer Jacket Color Code Chart:

| Color              |
|--------------------|
| See Product Family |

### Physical Characteristics (Connectivity)

#### Materials

##### Materials:

| Description      | Type   | Material   |
|------------------|--------|--|
| Plug             | RJ45   | Polycarbonate - UL94V-0                                |
| Boot             |        | Polycarbonate - UL94V-0                                |
| Front Connection | Blades | Phosphor Bronze with 50u inch Gold over Nickel Plating |

#### Color

|             |             |
|-------------|-------------|
| Boot Color: | Translucent |
|-------------|-------------|

#### Wiring Scheme

|                |                 |
|----------------|-----------------|
| Wiring Scheme: | T568A/B-T568A/B |
|----------------|-----------------|

#### Packaging

## CAD110000 Cable Assemblies - CAT6A Performance Modular Cord

Packaging: Individually packaged in a clear plastic bag.

### Mechanical Characteristics (Connectivity)

Plug / Jack Compatibility: RJ45

Termination Interface:

| Termination | Connection       | Durabilities |
|-------------|------------------|--------------|
| RJ45        | Mated Connection | 750 Cycles   |

Storage Temperature Range: -40°C To +75°C

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

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

Max. Recommended Pull Tension: 11.250 lbs.

Min. Bend Radius (Overall Cable): 0.744 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

UL Rating: Riser

Other Standards: FCC Part 68, Subpart F, IEC 60603-7

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2006

MII Order #39 (China RoHS): EUP 50

Telecommunications Standards: ISO/IEC 11801:2002 Amendment 2

Safety Listing: c(UL)us Listed

#### Suitability

Suitability - Indoor: Yes

### Transmission Characteristics (Connectivity)

Performance Table 1:

| Frequency (MHz) | Max. Insertion Loss TIA* (dB) | Max. Insertion Loss Belden (dB) | Min. PSNEXT TIA* (dB) | Min. PSNEXT Belden (dB) | Min. PSACRF TIA* (dB) | Min. PSACRF Belden (dB) |
|-----------------|-------------------------------|---------------------------------|-----------------------|-------------------------|-----------------------|-------------------------|
| 1.000           | 2.500                         | 4.000                           | 72.300                | 72.300                  | 64.800                | 64.800                  |
| 4.000           | 4.600                         | 7.200                           | 63.300                | 63.300                  | 52.800                | 52.800                  |
| 8.000           | 6.400                         | 10.100                          | 58.800                | 58.800                  | 46.700                | 46.700                  |
| 10.000          | 7.100                         | 11.300                          | 57.300                | 57.300                  | 44.800                | 44.800                  |
| 16.000          | 9.000                         | 14.200                          | 54.200                | 54.200                  | 40.700                | 40.700                  |
| 20.000          | 10.100                        | 15.900                          | 52.800                | 52.800                  | 38.800                | 38.800                  |
| 25.000          | 11.300                        | 17.800                          | 51.300                | 51.300                  | 36.800                | 36.800                  |
| 31.250          | 12.600                        | 20.000                          | 49.900                | 49.900                  | 34.900                | 34.900                  |
| 62.500          | 18.000                        | 28.500                          | 45.400                | 45.400                  | 28.900                | 28.900                  |
| 100.000         | 22.900                        | 36.400                          | 42.300                | 42.300                  | 24.800                | 24.800                  |
| 200.000         | 33.100                        | 52.400                          | 37.800                | 37.800                  | 18.800                | 18.800                  |
| 250.000         | 37.300                        | 59.000                          | 36.300                | 36.300                  | 16.800                | 16.800                  |
| 300.000         | 41.200                        | 65.100                          | 35.100                | 35.100                  | 15.300                | 15.300                  |
| 400.000         | 48.100                        | 76.100                          | 33.300                | 33.300                  | 12.800                | 12.800                  |
| 500.000         | 54.400                        | 86.000                          | 31.800                | 31.800                  | 10.800                | 10.800                  |

Performance Table - Footnote:

100 Meter Cable Specifications - \* TIA/EIA-568-C.2-2009 Category 6A Standard

Performance Table 2:

| Frequency (MHz) | Min. Return Loss TIA* (dB) | Min. Return Loss Belden (dB) | Min. PSANEXT TIA* (dB) | Min. PSANEXT Belden (dB) | Min. PSAACR-F TIA* (dB) | Min. PSAACR-F Belden (dB) | Min. Balanced TCL TIA* (dB) | Min. Balanced TCL Belden (dB) |
|-----------------|----------------------------|------------------------------|------------------------|--------------------------|-------------------------|---------------------------|-----------------------------|-------------------------------|
| 1.000           | 20.000                     | 20.000                       | 67.000                 | 67.000                   | 67.000                  | 67.000                    | 40.000                      | 40.000                        |
| 4.000           | 23.000                     | 23.000                       | 67.000                 | 67.000                   | 66.200                  | 66.200                    | 40.000                      | 40.000                        |
| 8.000           | 24.500                     | 24.500                       | 67.000                 | 67.000                   | 60.100                  | 60.100                    | 40.000                      | 40.000                        |
| 10.000          | 25.000                     | 25.000                       | 67.000                 | 67.000                   | 58.200                  | 58.200                    | 40.000                      | 40.000                        |
| 16.000          | 25.000                     | 25.000                       | 67.000                 | 67.000                   | 54.100                  | 54.100                    | 38.000                      | 38.000                        |
| 20.000          | 25.000                     | 25.000                       | 67.000                 | 67.000                   | 52.200                  | 52.200                    | 37.000                      | 37.000                        |
| 25.000          | 24.200                     | 24.200                       | 67.000                 | 67.000                   | 50.200                  | 50.200                    | 36.000                      | 36.000                        |
| 31.250          | 23.300                     | 23.300                       | 67.000                 | 67.000                   | 48.300                  | 48.300                    | 35.100                      | 35.100                        |
| 62.500          | 20.700                     | 20.700                       | 65.600                 | 65.600                   | 42.300                  | 42.300                    | 32.000                      | 32.000                        |
| 100.000         | 19.000                     | 19.000                       | 62.500                 | 62.500                   | 38.200                  | 38.200                    | 30.000                      | 30.000                        |
| 200.000         | 16.400                     | 16.400                       | 58.000                 | 58.000                   | 32.200                  | 32.200                    | 27.000                      | 27.000                        |
| 250.000         | 15.600                     | 15.600                       | 56.500                 | 56.500                   | 30.200                  | 30.200                    | 26.000                      | 26.000                        |

## CAD110000 Cable Assemblies - CAT6A Performance Modular Cord

|         |        |        |        |        |        |        |        |        |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 300.000 | 14.900 | 14.900 | 55.300 | 55.300 | 28.700 | 28.700 | 25.200 | 25.200 |
| 400.000 | 13.800 | 13.800 | 53.500 | 53.500 | 26.200 | 26.200 | 24.000 | 24.000 |
| 500.000 | 13.000 | 13.000 | 52.000 | 52.000 | 24.200 | 24.200 | 23.000 | 23.000 |

**Dielectric Strength:** 1,000 V RMS @ 60 Hz for 1 minute

**Current Rating:** 1.500 A

**Insulation Resistance:** 500 M-Ohm Minimum

**Max. Contact Resistance:** 20 m-Ohm

### Electrical Characteristics (Overall)

#### Labeling

**Labeling:** Labeling: Belden Part Number and Cord Length.

#### Notes (Overall)

- Notes:**
- CAD1106000 is subdivided as following CA-D1-1-00-000  
CA stands for performance, D1 stands for cable type, 1 stands for termination type, 00 stands for color, 000 stands for length Use last 3 digits of the code to specify length in feet - 001-015 ft in increments of 1 ft than 20 ft or 25 ft.
  - 28 AWG stranded conductors are not TIA-568 compliant. However, using maximum 6.3 meters of cordage connected to a 90 meters permanent link will meet all TIA channel requirements.

**Notes (Cont'd.):** Cable Weight: 0.0152 lbs/ft.

#### Product Family

##### Product List:

| Length         | Blue       | White      | Red        | Black      |
|----------------|------------|------------|------------|------------|
| 2 ft. (0.6 m)  | CAD1106002 | CAD1109002 | CAD1102002 | CAD1100002 |
| 3 ft. (0.9 m)  | CAD1106003 | CAD1109003 | CAD1102003 | CAD1100003 |
| 4 ft. (1.2 m)  | CAD1106004 | CAD1109004 | CAD1102004 | CAD1100004 |
| 5 ft. (1.5 m)  | CAD1106005 | CAD1109005 | CAD1102005 | CAD1100005 |
| 6 ft. (1.8 m)  | CAD1106006 | CAD1109006 | CAD1102006 | CAD1100006 |
| 7 ft. (2.1 m)  | CAD1106007 | CAD1109007 | CAD1102007 | CAD1100007 |
| 8 ft. (2.4 m)  | CAD1106008 | CAD1109008 | CAD1102008 | CAD1100008 |
| 9 ft. (2.7 m)  | CAD1106009 | CAD1109009 | CAD1102009 | CAD1100009 |
| 10 ft. (3.0 m) | CAD1106010 | CAD1109010 | CAD1102010 | CAD1100010 |
| 12 ft. (3.6 m) | CAD1106012 | CAD1109012 | CAD1102012 | CAD1100012 |
| 15 ft. (4.6 m) | CAD1106015 | CAD1109015 | CAD1102015 | CAD1100015 |
| 25 ft. (7.6 m) | CAD1106025 | CAD1109025 | CAD1102025 | CAD1100025 |

#### Put Ups and Colors:

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

Revision Number: 0 Revision Date: 10-27-2016

© 2016 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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ethernet Cables / Networking Cables](#) category:*

*Click to view products by [Belden](#) manufacturer:*

Other Similar products are found below :

[0152660053](#) [603020002](#) [73-7797-25](#) [73-8890-10](#) [73-8890-14](#) [73-8891-14](#) [73-8891-25](#) [73-8892-50](#) [73-8894-10](#) [73-8894-3](#) [73-8895-14](#) [73-8896-7](#) [MCJB2-10P6Q7-120](#) [84909-0204](#) [9QA0-111-12-3.00](#) [1200650742](#) [1200700174](#) [1200860368](#) [1200650013](#) [1201080008](#) [1-21919-1](#) [1300500373](#) [1300101844](#) [1300101845](#) [130050-0004](#) [1300500014](#) [1410147](#) [E16A06002M030](#) [E200102-009-S1](#) [MT14-187L](#) [17-103530](#) [NK5EPC18RDY](#) [NK5EPC18VLY](#) [NK5EPC18YLY](#) [NK5EPC1GRY](#) [NK5EPC30BLY](#) [NK5EPC30VLY](#) [NK5EPC30YLY](#) [NK5EPC4Y](#) [NK5EPC6YLY](#) [NK5EPC8BLY](#) [NK5EPC9YLY](#) [NK6PC30BUY](#) [NK6PC30GRY](#) [NK6PC30RDY](#) [NK6PC30Y](#) [NK6PC30YLY](#) [1969343-6](#) [C501100010](#) [C501106002](#)