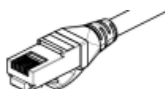
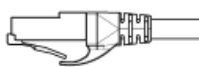


## CA21109015 Cable Assemblies - 10GX Modular Cord



For more Information  
please call

1-800-Belden1



### General Description:

10GX Patch Cord, Bonded-Pair, 4-Pair, 24 AWG Solid, CMR, T568A/B-T568A/B, White, 15 ft. (4.6 m).

### Usage (Overall)

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

### Multi Conductor

#### Physical Characteristics

##### Conductor

AWG:

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

##### Insulation

Insulation Material:

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

##### Inner Jacket

Inner Jacket Material:

| Inner Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

##### 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 |

Outer Jacket Color Code Chart:

| Color |
|-------|
| White |

### Overall Cabling

|                          |           |
|--------------------------|-----------|
| Overall Cabling Fillers: | Cross Web |
|--------------------------|-----------|

### Overall Diameter

|                            |           |
|----------------------------|-----------|
| Overall Nominal Diameter:  | 0.285 in. |
| Individual Cable Diameter: | 0.285 in. |

### Physical Characteristics (Connectivity)

#### Materials

Materials:

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

#### Color

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

### Wiring Scheme

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

### Weight

|         |            |
|---------|------------|
| Weight: | 0.380 lbs. |
|---------|------------|

## CA21109015 Cable Assemblies - 10GX Modular Cord

## Packaging

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 +70°C

Installation Temperature Range: -10°C To +60°C

Operating Temperature Range: -10°C To +60°C

Max. Recommended Pull Tension: 25 lbs.

Min. Bend Radius (Overall Cable): 1.040 in.

## Environmental/Mechanical Characteristics:

| Test (Method)             | TIA 568-C.3                         | Belden                              |
|---------------------------|-------------------------------------|-------------------------------------|
| Thermal Cycling (FOTP-3)  | n/a                                 | -40 to 75°C cycling for 7 days      |
| Temperature Life (FOTP-4) | 60°C for 4 days                     | 85°C for 7 days                     |
| Humidity (FOTP-5)         | 90-95% at 40°C for 4 days           | 95% @ 75°C for 7 days               |
| Durability (FOTP-21)      | 500 cycles                          | 6 x 200 cycles (3 Elevations)       |
| Cable Retention (FOTP-6)  | 5.0 kg @ 0 deg., 1.94 kg @ 90 deg.  | 6.8 kg @ 0 deg., 3.4 kg @ 90 deg.   |
| Flex (FOTP-1)             | 0.5 kg @ 90° to -90° for 100 cycles | 0.9 kg @ 90° to -90° for 100 cycles |
| Twist (FOTP-36)           | 1.5 kg for 10 cycles                | 1.5 kg for 10 cycles                |

## Overall Length Tolerances:

| Range             | Tolerance         | Range             | Tolerance       | Range                      | Tolerance                  |
|-------------------|-------------------|-------------------|-----------------|----------------------------|----------------------------|
| Sx & Dx Patchcord | Sx & Dx Patchcord | MPO Trunk         | MPO Trunk       | Multi-Fiber Cable Assembly | Multi-Fiber Cable Assembly |
| 0 to 2 meters     | +0.2 / -0 meter   | 0 to 2 meters     | +0.2 / -0 meter | 0 to 2 meters              | +0.2 / -0 meter            |
| 2.1 to 5.0 meters | +0.3 / -0 meter   | 2.1 to 5.0 meters | +0.3 / -0 meter | 2.1 to 5.0 meters          | +0.3 / -0 meter            |
| 5.1 to 40 meters  | +0.4 / -0 meter   | 5.1 to 20 meters  | +0.4 / -0 meter | 5.1 to 20 meters           | +0.4 / -0 meter            |
| Over 40.1 meters  | + 1.0% / -0%      | Over 20.1 meters  | + 1.0% / -0%    | Over 20.1 meters           | + 1.3 / -0 meter           |

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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:         | Category 6A - TIA 568.B.2-10, ISO/IEC 11801:2002 Amendment 2 |
| Safety Listing:                       | ACA, Bi-national Standard Listed                             |

## Suitability

Suitability - Indoor: Yes

## Transmission Characteristics (Connectivity)

## Optical Connector Performance:

| Description                 | OM1    | OM2    | OM3    | OM4     | OS2 / UPC | OS2 / APC |
|-----------------------------|--------|--------|--------|---------|-----------|-----------|
| Maximum Insertion Loss (dB) | 0.5 dB | 0.5 dB | 0.5 dB | 0.15 dB | 0.5 dB    | 0.5 dB    |
| Minimum Reflectance (dB)    | -20 dB | -20 dB | -20 dB | -20 dB  | -50 dB    | - 65 dB   |

## 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                         | 2.400                           | 72.300                | 72.300                 | 64.800                | 64.800                  |
| 4.000           | 4.600                         | 4.500                           | 63.300                | 63.300                 | 52.800                | 52.800                  |
| 8.000           | 6.400                         | 6.300                           | 58.800                | 58.800                 | 46.700                | 46.700                  |
| 10.000          | 7.100                         | 7.000                           | 57.300                | 57.300                 | 44.800                | 44.800                  |
| 16.000          | 9.000                         | 8.900                           | 54.200                | 54.300                 | 40.700                | 40.700                  |
| 20.000          | 10.100                        | 10.000                          | 52.800                | 52.800                 | 38.800                | 38.800                  |
| 25.000          | 11.300                        | 11.100                          | 51.300                | 51.300                 | 36.800                | 36.800                  |
| 31.250          | 12.600                        | 12.500                          | 49.900                | 49.900                 | 34.900                | 34.900                  |
| 62.500          | 18.000                        | 17.900                          | 45.400                | 45.400                 | 28.900                | 28.900                  |
| 100.000         | 22.900                        | 22.800                          | 42.300                | 42.300                 | 24.800                | 24.800                  |

## CA21109015 Cable Assemblies - 10GX Modular Cord

|         |        |        |        |        |        |        |
|---------|--------|--------|--------|--------|--------|--------|
| 200.000 | 33.100 | 33.000 | 37.800 | 37.800 | 18.800 | 20.900 |
| 250.000 | 37.300 | 37.200 | 36.300 | 36.300 | 16.800 | 16.800 |
| 300.000 | 41.200 | 41.000 | 35.100 | 35.200 | 15.300 | 15.300 |
| 400.000 | 48.100 | 48.000 | 33.300 | 33.300 | 12.800 | 13.900 |
| 500.000 | 54.400 | 54.300 | 31.800 | 31.800 | 10.800 | 11.700 |
| 625.000 |        | 61.500 |        | 30.400 |        | 8.800  |

Performance Table - Footnote:

100 Meter Cable Specifications - \* TIA/EIA-568-B.2-10-2008 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                 | 87.000                   | 67.000                  | 75.000                    | 40.000                      | 48.000                        |
| 4.000           | 23.000                     | 23.000                       | 67.000                 | 87.000                   | 66.200                  | 75.000                    | 40.000                      | 48.000                        |
| 8.000           | 24.500                     | 24.500                       | 67.000                 | 87.000                   | 60.100                  | 75.000                    | 40.000                      | 48.000                        |
| 10.000          | 25.000                     | 25.000                       | 67.000                 | 87.000                   | 58.200                  | 75.000                    | 40.000                      | 48.000                        |
| 16.000          | 25.000                     | 25.000                       | 67.000                 | 87.000                   | 54.100                  | 70.900                    | 38.000                      | 46.000                        |
| 20.000          | 25.000                     | 25.000                       | 67.000                 | 87.000                   | 52.200                  | 69.000                    | 37.000                      | 45.000                        |
| 25.000          | 24.200                     | 25.000                       | 67.000                 | 87.000                   | 50.200                  | 67.000                    | 36.000                      | 44.000                        |
| 31.250          | 23.300                     | 25.000                       | 67.000                 | 87.000                   | 48.300                  | 65.100                    | 35.100                      | 43.100                        |
| 62.500          | 20.700                     | 25.000                       | 65.600                 | 85.600                   | 42.300                  | 59.100                    | 32.000                      | 40.000                        |
| 100.000         | 19.000                     | 25.000                       | 62.500                 | 82.500                   | 38.200                  | 55.000                    | 30.000                      | 38.000                        |
| 200.000         | 16.400                     | 21.000                       | 58.000                 | 78.000                   | 32.200                  | 49.000                    | 27.000                      | 35.000                        |
| 250.000         | 15.600                     | 20.500                       | 56.500                 | 76.500                   | 30.200                  | 47.000                    | 26.000                      | 34.000                        |
| 300.000         | 14.900                     | 20.100                       | 55.300                 | 75.300                   | 28.700                  | 43.800                    | 25.200                      | 33.200                        |
| 400.000         | 13.800                     | 19.500                       | 53.500                 | 73.500                   | 26.200                  | 38.800                    | 24.000                      | 32.000                        |
| 500.000         | 13.000                     | 18.400                       | 52.000                 | 72.000                   | 24.200                  | 35.000                    | 23.000                      | 31.000                        |
| 625.000         |                            | 17.400                       |                        | 65.000                   |                         | 31.100                    |                             |                               |

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

## Notes (Overall)

## Product Family

## Product List:

| Length         | Yellow     | Green      | Blue       | Gray       | White      | Black      |
|----------------|------------|------------|------------|------------|------------|------------|
| 2 ft. (0.6 m)  | CA21104002 | CA21105002 | CA21106002 | CA21108002 | CA21109002 | CA21100002 |
| 3 ft. (0.9 m)  | CA21104003 | CA21105003 | CA21106003 | CA21108003 | CA21109003 | CA21100003 |
| 4 ft. (1.2 m)  | CA21104004 | CA21105004 | CA21106004 | CA21108004 | CA21109004 | CA21100004 |
| 5 ft. (1.5 m)  | CA21104005 | CA21105005 | CA21106005 | CA21108005 | CA21109005 | CA21100005 |
| 6 ft. (1.8 m)  | CA21104006 | CA21105006 | CA21106006 | CA21108006 | CA21109006 | CA21100006 |
| 7 ft. (2.1 m)  | CA21104007 | CA21105007 | CA21106007 | CA21108007 | CA21109007 | CA21100007 |
| 8 ft. (2.4 m)  | CA21104008 | CA21105008 | CA21106008 | CA21108008 | CA21109008 | CA21100008 |
| 9 ft. (2.7 m)  | CA21104009 | CA21105009 | CA21106009 | CA21108009 | CA21109009 | CA21100009 |
| 10 ft. (3.0 m) | CA21104010 | CA21105010 | CA21106010 | CA21108010 | CA21109010 | CA21100010 |
| 12 ft. (3.6 m) | CA21104012 | CA21105012 | CA21106012 | CA21108012 | CA21109012 | CA21100012 |
| 15 ft. (4.6 m) | CA21104015 | CA21105015 | CA21106015 | CA21108015 | CA21109015 | CA21100015 |
| 25 ft. (7.6 m) | CA21104025 | CA21105025 | CA21106025 | CA21108025 | CA21109025 | CA21100025 |

## Put Ups and Colors:

| Item #     | Putup | Ship Weight | Color | Notes | Item Desc                    |
|------------|-------|-------------|-------|-------|------------------------------|
| CA21109015 | 1 EA  | 0.580 LB    |       |       | PATCHCORD B10GX CMR WHT 15FT |

Revision Number: 0 Revision Date: 02-11-2013

© 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.



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[CA21109015](#)