

## CA21100009 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, Black, 9 ft. (2.7 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 |
|-------|
| Black |

### 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. |
|---------|------------|

## CA21100009 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.

**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: 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)****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                  |
| 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                        |

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|         |        |        |        |        |        |        |        |        |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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      | Red        | Orange     | Purple     |
|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 2 ft. (0.6 m)  | CA21104002 | CA21105002 | CA21106002 | CA21108002 | CA21109002 | CA21100002 | CA21102002 | CA21103002 | CA21107002 |
| 3 ft. (0.9 m)  | CA21104003 | CA21105003 | CA21106003 | CA21108003 | CA21109003 | CA21100003 | CA21102003 | CA21103003 | CA21107003 |
| 4 ft. (1.2 m)  | CA21104004 | CA21105004 | CA21106004 | CA21108004 | CA21109004 | CA21100004 | CA21102004 | CA21103004 | CA21107004 |
| 5 ft. (1.5 m)  | CA21104005 | CA21105005 | CA21106005 | CA21108005 | CA21109005 | CA21100005 | CA21102005 | CA21103005 | CA21107005 |
| 6 ft. (1.8 m)  | CA21104006 | CA21105006 | CA21106006 | CA21108006 | CA21109006 | CA21100006 | CA21102006 | CA21103006 | CA21107006 |
| 7 ft. (2.1 m)  | CA21104007 | CA21105007 | CA21106007 | CA21108007 | CA21109007 | CA21100007 | CA21102007 | CA21103007 | CA21107007 |
| 8 ft. (2.4 m)  | CA21104008 | CA21105008 | CA21106008 | CA21108008 | CA21109008 | CA21100008 | CA21102008 | CA21103008 | CA21107008 |
| 9 ft. (2.7 m)  | CA21104009 | CA21105009 | CA21106009 | CA21108009 | CA21109009 | CA21100009 | CA21102009 | CA21103009 | CA21107009 |
| 10 ft. (3.0 m) | CA21104010 | CA21105010 | CA21106010 | CA21108010 | CA21109010 | CA21100010 | CA21102010 | CA21103010 | CA21107010 |
| 12 ft. (3.6 m) | CA21104012 | CA21105012 | CA21106012 | CA21108012 | CA21109012 | CA21100012 | CA21102012 | CA21103012 | CA21107012 |
| 15 ft. (4.6 m) | CA21104015 | CA21105015 | CA21106015 | CA21108015 | CA21109015 | CA21100015 | CA21102015 | CA21103015 | CA21107015 |
| 25 ft. (7.6 m) | CA21104025 | CA21105025 | CA21106025 | CA21108025 | CA21109025 | CA21100025 | CA21102025 | CA21103025 | CA21107025 |

### Put Ups and Colors:

| Item #     | Putup | Ship Weight | Color | Notes | Item Desc                   |
|------------|-------|-------------|-------|-------|-----------------------------|
| CA21100009 | 1 EA  | 0.373 LB    |       |       | PATCHCORD B10GX CMR BLK 9FT |

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