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1-800-Belden1



## General Description:

CAT6+ Patch Cord, Bonded-Pair, 4 Pair, 24 AWG Solid, CMR, T568A/B-T568A/B, Blue, 10 ft. (3.0 m).

## Usage (Overall)

**Suitable Applications:** IBDN System 4800, IBDN System 2400, TIA Category 6, ISO Class E, 1000BASE-T  
**Related Parts:** CAT6+ Modular Jacks, CAT6+ 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     |

#### Outer Jacket

Outer Jacket Material:

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

Outer Jacket Color Code Chart:

| Color |
|-------|
| Blue  |

#### Overall Cabling

**Overall Cabling Fillers:** Cross Web

#### Overall Diameter

**Overall Nominal Diameter:** 0.225 in.

## Physical Characteristics (Connectivity)

### Materials

Materials:

| Description      | Type   | Material   |
|------------------|--------|--|
| Plug             | RJ45   | Polycarbonate  |
| Boot             |        | Elastomer  |
| 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:** 0.060 lbs.

#### 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

## C601106010 Cable Assemblies - CAT6+ Modular Cord

|                                   |                |
|-----------------------------------|----------------|
| 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 6 - TIA 568.C.2, ISO/IEC 11801:2002 Ed.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           | 2.400                         | 2.000                           | 72.300                | 73.300                 | 64.800                | 67.800                  |
| 4.000           | 4.500                         | 3.700                           | 63.300                | 64.300                 | 52.800                | 55.800                  |
| 8.000           | 6.400                         | 5.200                           | 58.800                | 61.300                 | 46.700                | 49.700                  |
| 10.000          | 7.100                         | 5.900                           | 57.300                | 59.800                 | 44.800                | 47.800                  |
| 16.000          | 9.100                         | 7.400                           | 54.200                | 56.600                 | 40.700                | 43.700                  |
| 20.000          | 10.200                        | 8.300                           | 52.800                | 55.100                 | 38.800                | 41.800                  |
| 25.000          | 11.400                        | 9.300                           | 51.300                | 53.500                 | 36.800                | 39.800                  |
| 31.250          | 12.800                        | 10.400                          | 49.900                | 52.000                 | 34.900                | 37.900                  |
| 62.500          | 18.500                        | 14.900                          | 45.400                | 47.100                 | 28.900                | 31.900                  |
| 100.000         | 23.800                        | 19.000                          | 42.300                | 43.800                 | 24.800                | 27.800                  |
| 200.000         | 34.800                        | 27.500                          | 37.800                | 38.900                 | 18.800                | 21.800                  |
| 250.000         | 39.400                        | 31.000                          | 36.300                | 37.300                 | 16.800                | 19.800                  |
| 300.000         |                               | 34.200                          |                       | 36.100                 |                       | 18.300                  |

Performance Table - Footnote:

100 Meter Cable Specifications - \* TIA-EIA-568-C.2 Category 6 Standard ----- PSACRF is formally PSELFEXT

Performance Table 2:

| Frequency (MHz) | Min. Return Loss TIA* (dB) | Min. Return Loss Belden (dB) | Min. Balanced TCL TIA* (dB) | Min. Balanced TCL Belden (dB) |
|-----------------|----------------------------|------------------------------|-----------------------------|-------------------------------|
| 1.000           | 20.000                     | 20.000                       | 40.000                      | 40.000                        |
| 4.000           | 23.000                     | 23.000                       | 40.000                      | 40.000                        |
| 8.000           | 24.500                     | 24.500                       | 40.000                      | 40.000                        |
| 10.000          | 25.000                     | 25.000                       | 40.000                      | 40.000                        |
| 16.000          | 25.000                     | 25.000                       | 38.000                      | 38.000                        |
| 20.000          | 25.000                     | 25.000                       | 37.000                      | 37.000                        |
| 25.000          | 24.200                     | 24.300                       | 36.000                      | 36.000                        |
| 31.250          | 23.300                     | 23.600                       | 35.100                      | 35.100                        |
| 62.500          | 20.700                     | 21.500                       | 32.000                      | 32.000                        |
| 100.000         | 19.000                     | 20.800                       | 30.000                      | 30.000                        |
| 200.000         | 16.400                     | 18.700                       | 27.000                      | 27.000                        |
| 250.000         | 15.600                     | 18.000                       | 26.000                      | 26.000                        |
| 300.000         |                            | 17.500                       |                             |                               |

|                          |                                  |
|--------------------------|----------------------------------|
| 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, Performance Acronym, Wiring Scheme and Cord Length. |
|-----------|---|

## C601106010 Cable Assemblies - CAT6+ Modular Cord

### Notes (Overall)

**Notes:** C601106010 is subdivided as following C6-01-1-06-010 C6 stands for performance, 01 stands for cable type, 1 stands for termination type, 06 stands for color, 010 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

**Notes (Cont'd.):**

[www.belden.com/p](http://www.belden.com/p)

### Product Family

#### Product List:

| Length         | Yellow     | Green      | Blue       | Gray       | White      | Black      | Purple     |
|----------------|------------|------------|------------|------------|------------|------------|------------|
| 2 ft. (0.6 m)  | C601104002 | C601105002 | C601106002 | C601108002 | C601109002 | C601100002 | C601107002 |
| 4 ft. (1.2 m)  | C601104004 | C601105004 | C601106004 | C601108004 | C601109004 | C601100004 | C601107004 |
| 7 ft. (2.1 m)  | C601104007 | C601105007 | C601106007 | C601108007 | C601109007 | C601100007 | C601107007 |
| 10 ft. (3.0 m) | C601104010 | C601105010 | C601106010 | C601108010 | C601109010 | C601100010 | C601107010 |
| 15 ft. (4.6 m) | C601104015 | C601105015 | C601106015 | C601108015 | C601109015 | C601100015 | C601107015 |
| 25 ft. (7.6 m) | C601104025 | C601105025 | C601106025 | C601108025 | C601109025 | C601100025 | C601107025 |

### Put Ups and Colors:

| Item #     | Putup | Ship Weight | Color       | Notes | Item Desc                     |
|------------|-------|-------------|-------------|-------|-------------------------------|
| C601106010 | 1 EA  | 0.345 LB    | BLUE, LIGHT |       | PATCHCORD BCAT6+ CMR BLU 10FT |

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