

## C601106002 Cable Assemblies - CAT6+ Modular Cord



For more Information  
please call

1-800-Belden1



### General Description:

CAT6+ Patch Cord, Bonded-Pair, 4 Pair, 24 AWG Solid, CMR, T568A/B-T568A/B, Blue, 2 ft. (0.6 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:  | 0.238 in. |
| Individual Cable Diameter: | 0.250 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: | 0.060 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   |

## C601106002 Cable Assemblies - CAT6+ Modular Cord

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 & 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

MIL 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)

### 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           | 2.400                         | 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                        |

**C601106002 Cable Assemblies - CAT6+ Modular Cord**

|         |        |        |        |        |
|---------|--------|--------|--------|--------|
| 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

**Notes (Overall)**

**Notes:** C601106002 is subdivided as following C6-01-1-06-002 C6 stands for performance, 01 stands for cable type, 1 stands for termination type, 06 stands for color, 002 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                    |
|------------|-------|-------------|-------------|-------|------------------------------|
| C601106002 | 1 EA  | 0.098 LB    | BLUE, LIGHT |       | PATCHCORD BCAT6+ CMR BLU 2FT |

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