

## AX103253 Faceplates and Panels - CAT6+ Patch Panel - KeyConnect



For more Information  
please call

1-800-Belden1

**General Description:**

CAT6+ KeyConnect Patch Panel, 24-port, 1U, Black

**Usage (Overall)**

|                        |   |
|------------------------|---|
| Suitable Applications: | IBDN System 4800, 3600, 2400, TIA Category 6, ISO Class E, 1000BASE-T |
| Related Parts:         | CAT6+ Modular Cords   |

**Physical Characteristics (Connectivity)****Capacity**

|                |   |
|----------------|---|
| Max. Capacity: | 24 connectors ( Patch Panel is already loaded ) |
|----------------|---|

**Access**

|                   |       |
|-------------------|-------|
| Front Connection: | Flush |
| Termination Area: | Rear  |

**Dimensions****Dimensions:**

| Height (in.) | Width (in.) | Depth (in.) |
|--------------|-------------|-------------|
| 1.750        | 19.000      | 1.300       |

**Materials****Materials:**

| Description | Material |
|-------------|----------|
| Panel       | Steel    |

**Color**

|        |       |
|--------|-------|
| Color: | Black |
|--------|-------|

**Weight**

|         |            |
|---------|------------|
| Weight: | 1.350 lbs. |
|---------|------------|

**Included Parts**

|                 |   |
|-----------------|---|
| Included Parts: | 4 Screws (10x32); 4 Screws (12x24); 1 Label Holder; 1 Printable LabelFlex Half-Sheet; 2 Velcro Straps; 2 Rear Cable Management Bracket, 1 Installation Guide, 1 kit Termination Bar |
|-----------------|---|

**Packaging**

|            |   |
|------------|---|
| Packaging: | Individually packaged in a cardboard box. |
|------------|---|

**Mechanical Characteristics (Connectivity)**

|                            |            |
|----------------------------|------------|
| Footprint/Type:            | KeyConnect |
| Plug / Jack Compatibility: | RJ45       |

**Termination Interface:**

| Termination | Connection       | Durabilities  |
|-------------|------------------|---------------|
| Front       | Mated Connection | 750 Cycle     |
| Rear        | IDC Connection   | 10 Insertions |

**Termination Characteristics:**

| Termination Characteristic |
|----------------------------|
| Universal T568A/B          |

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Storage Temperature Range:      | -40°C To +70°C                      |
| Installation Temperature Range: | -10°C To +60°C                      |
| Operating Temperature Range:    | -10°C To +60°C                      |
| Tool Compatibility:             | Gigaflex Connecting Tool (AX100749) |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

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

## AX103253 Faceplates and Panels - CAT6+ Patch Panel - KeyConnect

|                                       |   |
|---------------------------------------|---|
| EU Directive 2002/95/EC (RoHS):       | Yes   |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/30/2008  |
| MIL Order #39 (China RoHS):           | EUP 50  |
| Telecommunications Standards:         | Category 6 - TIA 568.B.2-1, ISO/IEC 11801:2002 Ed.2 |
| Third Party Performance Verification: | ETL - Verified Category 6                           |
| Safety Listing:                       | ACA, Bi-national Standard Listed                    |

### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

### Transmission Characteristics (Connectivity)

Mated Connection Table 1:

| Frequency (MHz) | Max. Insertion Loss TIA* (dB) | Max. Insertion Loss Belden** (dB) | Min. NEXT TIA* (dB) | Min. NEXT Belden** (dB) | Min. FEXT TIA* (dB) | Min. FEXT Belden** (dB) |
|-----------------|-------------------------------|-----------------------------------|---------------------|-------------------------|---------------------|-------------------------|
| 1.000           | 0.100                         | 0.100                             | 75.000              | 77.000                  | 75.000              | 77.000                  |
| 4.000           | 0.100                         | 0.100                             | 75.000              | 77.000                  | 71.100              | 75.100                  |
| 8.000           | 0.100                         | 0.100                             | 75.000              | 77.000                  | 65.000              | 69.000                  |
| 10.000          | 0.100                         | 0.100                             | 74.000              | 77.000                  | 63.100              | 67.100                  |
| 16.000          | 0.100                         | 0.100                             | 69.900              | 72.900                  | 59.000              | 63.000                  |
| 20.000          | 0.100                         | 0.100                             | 68.000              | 71.000                  | 57.100              | 61.100                  |
| 25.000          | 0.100                         | 0.100                             | 66.000              | 69.000                  | 55.100              | 59.100                  |
| 31.250          | 0.110                         | 0.100                             | 64.100              | 67.100                  | 53.200              | 57.200                  |
| 62.500          | 0.160                         | 0.120                             | 58.100              | 61.100                  | 47.200              | 51.200                  |
| 100.000         | 0.200                         | 0.160                             | 54.000              | 57.000                  | 43.100              | 47.100                  |
| 200.000         | 0.280                         | 0.240                             | 48.000              | 51.000                  | 37.100              | 41.100                  |
| 250.000         | 0.320                         | 0.280                             | 46.000              | 49.000                  | 35.100              | 39.100                  |
| 300.000         |                               | 0.310                             |                     | 44.500                  |                     | 37.600                  |

Mated Connection Table - Footnote:

\* TIA-EIA-568-B.2-1 Category 6 Standard. \*\* Worst-case performance for a CAT6+ mated connection using CAT6+ modular plugs.

Mated Connection 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           | 30.000                     | 32.000                         | 40.000                      | 42.000                          |
| 4.000           | 30.000                     | 32.000                         | 40.000                      | 42.000                          |
| 8.000           | 30.000                     | 32.000                         | 40.000                      | 42.000                          |
| 10.000          | 30.000                     | 32.000                         | 40.000                      | 42.000                          |
| 16.000          | 30.000                     | 32.000                         | 40.000                      | 42.000                          |
| 20.000          | 30.000                     | 32.000                         | 40.000                      | 42.000                          |
| 25.000          | 30.000                     | 32.000                         | 40.000                      | 42.000                          |
| 31.250          | 30.000                     | 32.000                         | 38.100                      | 42.000                          |
| 62.500          | 28.100                     | 32.000                         | 32.100                      | 36.100                          |
| 100.000         | 24.000                     | 28.000                         | 28.000                      | 32.000                          |
| 200.000         | 18.000                     | 22.000                         | 22.000                      | 26.000                          |
| 250.000         | 16.000                     | 20.000                         | 20.000                      | 24.000                          |
| 300.000         |                            | 18.500                         |                             | 22.500                          |

|                          |                                 |
|--------------------------|---------------------------------|
| Dielectric Strength:     | 1,000 V RMS @ 60Hz for 1 minute |
| Current Rating:          | 1.500 A                         |
| Insulation Resistance:   | 500 M-Ohm Minimum               |
| Max. Contact Resistance: | 20 m-Ohm                        |
| Termination Resistance:  | 2.5 m-Ohm                       |

### Notes (Overall)

**Notes:** For proper installation refer to Installation Guide PX104691 included with the product or visit our web site at <http://www.belden.com>

### Product Family

Part Numbers:

| Description                                  | Item Number |
|--|-------------|
| KeyConnect PP CAT6, 1U24P, Black             | AX103253    |
| KeyConnect PP CAT6, 2U48P, Black             | AX103255    |
| KeyConnect UHDP CAT6, 1U48P, Black           | AX103263    |
| KeyConnect PP CAT6, 1U24P wt couplers, Black | AX104227    |
| KeyConnect PP CAT6, 2U48P wt couplers, Black | AX104228    |
| KeyConnect PP CAT6, 1U48P wt couplers, Black | AX104591    |

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### Put Ups and Colors:

| Item #   | Putup | Ship Weight | Color | Notes | Item Desc                    |
|----------|-------|-------------|-------|-------|------------------------------|
| AX103253 | 1 EA  | 2.645 LB    |       |       | CAT6+ KCONN PATCH PANEL 24-P |

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