# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

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





For more Information please call

1-800-Belden1

## 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 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 |
| **EU Directive 2002/95/EC (RoHS):** | Yes |
| **EU RoHS Compliance Date (mm/dd/yyyy):** | 01/30/2008 |
| **MII 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 UHDPP 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 |

## 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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