

## AX103259 Panels - HD Patch Panel - HD-Style



For more Information  
please call

1-800-Belden1



### Description:

CAT5E HD-110 Patch Panel, 48-port, 2U, Black

### Usage (Overall)

|                               |   |
|-------------------------------|---|
| <b>Suitable Applications:</b> | IBDN System 1200, TIA Category 5e, ISO Class D, 1000BASE-T, 100BASE-T |
| <b>Related Parts:</b>         | CAT5E Modular Cords   |

### Physical Characteristics (Connectivity)

#### Capacity

|                       |   |
|-----------------------|---|
| <b>Max. Capacity:</b> | 48 connectors ( Patch Panel is already loaded ) |
|-----------------------|---|

#### Access

|                          |       |
|--------------------------|-------|
| <b>Front Connection:</b> | Flush |
| <b>Termination Area:</b> | Rear  |

#### Dimensions

##### Dimensions:

| Height (in.) | Width (in.) | Depth (in.) |
|--------------|-------------|-------------|
| 3.440        | 19.000      | 1.350       |

#### Materials

##### Materials:

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

#### Color

|               |       |
|---------------|-------|
| <b>Color:</b> | Black |
|---------------|-------|

#### Weight

|                |            |
|----------------|------------|
| <b>Weight:</b> | 1.700 lbs. |
|----------------|------------|

#### Included Parts

|                        |  |
|------------------------|--|
| <b>Included Parts:</b> | 4 Screws (10x32); 4 Screws (12x24); 1 Printable LabelFlex Half-Sheet,; 1 Installation Guide. |
|------------------------|--|

#### Packaging

|                   |   |
|-------------------|---|
| <b>Packaging:</b> | Individually packaged in a cardboard box. |
|-------------------|---|

### Mechanical Characteristics (Connectivity)

|                                   |      |
|-----------------------------------|------|
| <b>Footprint/Type:</b>            | HDPP |
| <b>Plug / Jack Compatibility:</b> | RJ45 |

#### Termination Interface:

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

#### Termination Characteristics:

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

|                                   |                |
|-----------------------------------|----------------|
| <b>Storage Temperature Range:</b> | -40°C To +70°C |
|-----------------------------------|----------------|

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|  |                                     |
|--|-------------------------------------|
| <b>Installation Temperature Range:</b> | -10°C To +60°C                      |
| <b>Operating Temperature Range:</b>    | -10°C To +60°C                      |
| <b>Tool Compatibility:</b>             | Gigaflex Connecting Tool (AX100749) |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|  |   |
|--|---|
| <b>Other Standards:</b>                      | FCC Part 68, Subpart F, IEC 60603-7                             |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes   |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 07/01/2006  |
| <b>MII Order #39 (China RoHS):</b>           | EUP 50  |
| <b>Telecommunications Standards:</b>         | Category 5e - TIA 568.B.2, Category 5 - ISO/IEC 11801:2002 Ed.2 |
| <b>Safety Listing:</b>                       | ACA, Bi-national (UL/CSA) Standard Listed                       |

#### Suitability

|                              |     |
|------------------------------|-----|
| <b>Suitability - Indoor:</b> | Yes |
|------------------------------|-----|

### Transmission Characteristics (Connectivity)

#### Transmission Specifications:

#### 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                             | 65.000              | 77.000                  | 65.000              | 67.000                  |
| 4.000           | 0.100                         | 0.100                             | 65.000              | 73.000                  | 63.100              | 65.000                  |
| 8.000           | 0.100                         | 0.100                             | 64.900              | 66.900                  | 57.000              | 58.900                  |
| 10.000          | 0.100                         | 0.100                             | 63.000              | 65.000                  | 55.100              | 57.000                  |
| 16.000          | 0.100                         | 0.100                             | 58.900              | 60.900                  | 51.000              | 52.900                  |
| 20.000          | 0.100                         | 0.100                             | 57.000              | 59.000                  | 49.100              | 51.000                  |
| 25.000          | 0.100                         | 0.100                             | 55.000              | 57.000                  | 47.100              | 49.000                  |
| 31.250          | 0.110                         | 0.100                             | 53.100              | 55.100                  | 45.200              | 47.100                  |
| 62.500          | 0.160                         | 0.120                             | 47.100              | 49.100                  | 39.200              | 41.100                  |
| 100.000         | 0.200                         | 0.160                             | 43.000              | 45.000                  | 35.100              | 37.000                  |
| 160.000         |                               | 0.210                             |                     | 40.900                  |                     | 32.900                  |

#### Mated Connection Table - Footnote:

\* TIA-EIA-568-B.2 Category 5e Standard. \*\* Worst-case performance for a CAT5E mated connection using CAT5E modular plugs.

#### Mated Connection Table 2:

| Frequency (MHz) | Min. Return Loss TIA* (dB) | Min. Return Loss Belden** (dB) |
|-----------------|----------------------------|--------------------------------|
| 1.000           | 30.000                     | 32.000                         |
| 4.000           | 30.000                     | 32.000                         |
| 8.000           | 30.000                     | 32.000                         |
| 10.000          | 30.000                     | 32.000                         |
| 16.000          | 30.000                     | 32.000                         |
| 20.000          | 30.000                     | 32.000                         |
| 25.000          | 30.000                     | 32.000                         |
| 31.250          | 30.000                     | 32.000                         |
| 62.500          | 24.100                     | 32.000                         |
| 100.000         | 20.000                     | 28.000                         |
| 160.000         |                            | 23.900                         |

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

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Termination Resistance: 2.5 m-Ohm

### Notes (Overall)

**Notes:** For proper installation refer to Installation Guide PX100733 included with the product or visit our web site at <http://www.belden.com>

### Product Family

#### Part Numbers:

| Description            | Item Number |
|------------------------|-------------|
| HD-110 PP 1U24P, Black | AX103258    |
| HD-110 PP 2U48P, Black | AX103259    |

### Put Ups and Colors:

| Item #   | Putup | Ship Weight | Color | Notes | Item Desc                     |
|----------|-------|-------------|-------|-------|-------------------------------|
| AX103259 | 1 EA  | 2.866 LB    |       |       | CAT5E HD-110 PATCH PANEL 48-P |

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