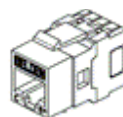


## AX101324 Modular Connectors - CAT6+ Modular Jack - KeyConnect



For more Information  
please call

1-800-Belden1



### Description:

CAT6+ Modular Jack, RJ45, KeyConnect style, Yellow (TIA 606)

### Usage (Overall)

**Suitable Applications:** IBDN System 2400 and 4800, TIA Category 6+, ISO Class E, 1000 BASE-T

**Related Parts:** Compatible with KeyConnect Faceplates, Adapters, Boxes and Patch Panels

### Physical Characteristics (Connectivity)

#### Dimensions

##### Dimensions:

| Height (in.) | Width (in.) | Depth (in.) |
|--------------|-------------|-------------|
| 0.880        | 0.640       | 1.290       |

#### Materials

##### Materials:

| Description      | Type       | Material                                    |
|------------------|------------|---|
| Front Connection | Lead Frame | Copper Allow with 50u inch Gold over Nickel |
| Rear Connection  | IDC        | Copper Allow with Nickel Plating            |
| Connector Body   |            | Plastic - UL94V-0                           |

#### Color

**Color:** Yellow (TIA 606)

#### Wiring Scheme

**Wiring Scheme:** T568A/B

#### Weight

**Weight:** 0.014 lbs.

#### Included Parts

**Included Parts:** 1 T-Bar

#### Packaging

**Packaging:** Individually packaged in a plastic bag. Standard pack of 50 units.

### Mechanical Characteristics (Connectivity)

**Footprint/Type:** KeyConnect

**Plug / Jack Compatibility:** RJ45, RJ11

#### Termination Interface:

| Termination | Connection               | Durabilities    |
|-------------|--------------------------|-----------------|
| Front       | Mated Connection         | 1,000 cycles    |
| Rear        | Gas Tight IDC Connection | 10 terminations |

**Connector/Hardware Retention:** 20 lbs.

**Plug/Connector Retention:** 11.250 lbs.

**Storage Temperature Range:** -40°C To +70°C

**Installation Temperature Range:** -10°C To +60°C

**Operating Temperature Range:** -10°C To +60°C

## AX101324 Modular Connectors - CAT6+ Modular Jack - KeyConnect

**Tool Compatibility:** Belden 110 Connecting Tool, MediaFlex Termination Station

### 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 6 - TIA 568.B.2-1, ISO/IEC 11801:2002 Ed.2 |
| <b>Third Party Performance Verification:</b> | ETL - Verified Category 6                           |
| <b>Safety Listing:</b>                       | ACA, Bi-national Standard Listed                    |

#### Suitability

**Suitability - Indoor:** Yes - Indoor

### 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.2-1-2002 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                     | 22.000                         | 20.000                      | 24.000                          |
| 300.000         |                            | 18.500                         |                             | 22.500                          |

**Dielectric Strength:** 1,000 V RMS @ 60 Hz for 1 minute

**Current Rating:** 1.500 A

**Insulation Resistance:** 50 M-Ohm Minimum

## AX101324 Modular Connectors - CAT6+ Modular Jack - KeyConnect

**Max. Contact Resistance:** 20 m-Ohm

**Termination Resistance:** 2.5 m-Ohm

### Notes (Overall)

**Notes:** Please see Installation Guide PX103329

### Product Family

#### Part Number List:

| Item Number | Color            |
|-------------|------------------|
| AX101318    | Gray             |
| AX101319    | Almond           |
| AX101320    | Elec. White      |
| AX101321    | Black            |
| AX101322    | Orange (TIA 606) |
| AX101323    | Red (TIA 606)    |
| AX101324    | Yellow (TIA 606) |
| AX101325    | Green (TIA 606)  |
| AX101326    | Blue (TIA 606)   |
| AX101327    | Purple (TIA 606) |
| AX101328    | Brown (TIA 606)  |
| AX103076    | Ivory            |
| AX104189    | Orange           |
| AX104190    | Red              |
| AX104191    | Yellow           |
| AX104192    | Green            |
| AX104193    | Blue             |
| AX104194    | Purple           |

### Put Ups and Colors:

| Item #   | Putup | Ship Weight | Color | Notes | Item Desc                      |
|----------|-------|-------------|-------|-------|--------------------------------|
| AX101324 | 1 EA  | 0.024 LB    |       |       | CAT6+ JACK KCONN YELLOW TIA606 |

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