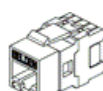


## AX101325 Modular Connectors - CAT6+ Modular Jack - KeyConnect



For more Information  
please call

1-800-Belden1



## General Description:

CAT6+ Modular Jack, RJ45, KeyConnect style, Green (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 - UL940V-0                          |

## Color

Color: Green (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 | 20 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

Tool Compatibility: Belden 110 Connecting Tool, MediaFlex Termination Station

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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): 07/01/2006

MIL Order #39 (China RoHS): EUP 50

## AX101325 Modular Connectors - CAT6+ Modular Jack - KeyConnect

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| 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 - 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-C.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: | 500 M-Ohm Minimum |
|------------------------|-------------------|

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

|                         |           |
|-------------------------|-----------|
| Termination Resistance: | 2.5 m-Ohm |
|-------------------------|-----------|

**Notes (Overall)**

|        |                                        |
|--------|----------------------------------------|
| Notes: | Please see Installation Guide PX103329 |
|--------|----------------------------------------|

|                  |                           |
|------------------|---------------------------|
| Notes (Cont'd.): | IDC Wire Gauge: 22~24 AWG |
|------------------|---------------------------|

**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)  |

## AX101325 Modular Connectors - CAT6+ Modular Jack - KeyConnect

|          |                  |
|----------|------------------|
| 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                     |
|----------|-------|-------------|-------|-------|-------------------------------|
| AX101325 | 1 EA  | 0.024 LB    |       |       | CAT6+ JACK KCONN GREEN TIA606 |

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)