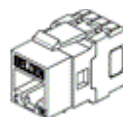


## AX101316 Modular Connectors - CAT5E Modular Jack - KeyConnect



For more Information  
please call

1-800-Belden1



### General Description:

CAT5E Modular Jack, RJ45, KeyConnect style, Purple (TIA 606)

### Usage (Overall)

**Suitable Applications:** IBDN System 1200, TIA Category 5E, ISO Class D, 1000 BASE-T

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

### Physical Characteristics (Connectivity)

#### Dimensions

Dimensions:

| Height (mm) | Width (mm) | Depth (mm) |
|-------------|------------|------------|
| 22.352      | 16.256     | 32.766     |

#### 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:** Purple (TIA 606)

#### Wiring Scheme

**Wiring Scheme:** T568A/B

#### Weight

**Weight:** 0.006 kg

#### 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:** 88.964 N

**Plug/Connector Retention:** 50.042 N

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

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

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

## AX101316 Modular Connectors - CAT5E Modular Jack - KeyConnect

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

### 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):** 07/01/2006

**MII Order #39 (China RoHS):** EUP 50

**Telecommunications Standards:** Category 5 - ISO/IEC 11801:2002 Ed.2

**Third Party Performance Verification:** ETL - Verified Category 5e

**Safety Listing:** ACA, Bi-national Standard Listed

**Other Specification:** UL 1863

#### 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                             | 65.000              | 77.000                  | 65.000              | 77.000                  |
| 4.000           | 0.100                         | 0.100                             | 65.000              | 73.800                  | 63.100              | 74.800                  |
| 8.000           | 0.100                         | 0.100                             | 64.900              | 67.700                  | 57.000              | 68.700                  |
| 10.000          | 0.100                         | 0.100                             | 63.000              | 65.800                  | 55.100              | 66.800                  |
| 16.000          | 0.100                         | 0.100                             | 58.900              | 61.700                  | 51.000              | 62.700                  |
| 20.000          | 0.100                         | 0.100                             | 57.000              | 59.800                  | 49.100              | 60.800                  |
| 25.000          | 0.100                         | 0.100                             | 55.000              | 57.800                  | 47.100              | 58.800                  |
| 31.250          | 0.110                         | 0.100                             | 53.100              | 55.900                  | 45.200              | 56.900                  |
| 62.500          | 0.160                         | 0.120                             | 47.100              | 49.900                  | 39.200              | 50.900                  |
| 100.000         | 0.200                         | 0.160                             | 43.000              | 45.800                  | 35.100              | 46.800                  |
| 160.000         |                               | 0.210                             |                     | 41.700                  |                     | 42.700                  |

**Mated Connection Table - Footnote:**

\* TIA/EIA-568-C.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) | Min. Balanced TCL Belden** (dB) |
|-----------------|----------------------------|--------------------------------|---------------------------------|
| 1.000           | 30.000                     | 32.000                         | 42.000                          |
| 4.000           | 30.000                     | 32.000                         | 42.000                          |
| 8.000           | 30.000                     | 32.000                         | 42.000                          |
| 10.000          | 30.000                     | 32.000                         | 42.000                          |
| 16.000          | 30.000                     | 32.000                         | 42.000                          |
| 20.000          | 30.000                     | 32.000                         | 42.000                          |
| 25.000          | 30.000                     | 32.000                         | 42.000                          |
| 31.250          | 30.000                     | 32.000                         | 42.000                          |
| 62.500          | 24.100                     | 31.100                         | 36.100                          |
| 100.000         | 20.000                     | 27.000                         | 32.000                          |
| 160.000         |                            | 22.900                         | 27.900                          |

**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

## AX101316 Modular Connectors - CAT5E Modular Jack - KeyConnect

### 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            |
|-------------|------------------|
| AX101307    | Gray             |
| AX101308    | Almond           |
| AX101309    | Elec. White      |
| AX101310    | Black            |
| AX101311    | Orange (TIA 606) |
| AX101312    | Red (TIA 606)    |
| AX101313    | Yellow (TIA 606) |
| AX101314    | Green (TIA 606)  |
| AX101315    | Blue (TIA 606)   |
| AX101316    | Purple (TIA 606) |
| AX101317    | Brown (TIA 606)  |
| AX103079    | Ivory            |
| AX104182    | Orange           |
| AX104183    | Red              |
| AX104184    | Yellow           |
| AX104185    | Green            |
| AX104186    | Blue             |
| AX104187    | Purple           |

### Put Ups and Colors:

| Item #   | Putup | Ship Weight | Color | Notes | Item Desc                      |
|----------|-------|-------------|-------|-------|--------------------------------|
| AX101316 | 1 EA  | 0.024 LB    |       |       | CAT5E JACK KCONN PURPLE TIA606 |

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