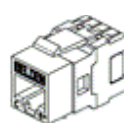


AX101321 Modular Connectors - CAT6+ Modular Jack - KeyConnect



For more Information
please call

1-800-Belden1

**Description:**

CAT6+ Modular Jack, RJ45, KeyConnect style, Black

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: Black

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

AX101321 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**

| | |
|--|---|
| 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 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 (UL/CSA) 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 |
|-------------------------------|------------------|

AX101321 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 |

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------|-------|-------------|-------|-------|------------------------|
| AX101321 | 1 EA | 0.024 LB | | | CAT6+ JACK KCONN BLACK |

Revision Number: 1 Revision Date: 08-11-2010

© 2012 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.