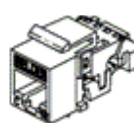
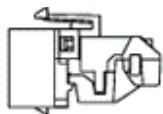


AX100580 Modular Connectors - CAT5E EZ-MDVO Modular Jack - KeyConnect



For more Information
please call

1-800-Belden1

**General Description:**

CAT5E EZ-MDVO Modular Jack, RJ45, KeyConnect, Black

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) |
|-------------|------------|------------|
| 22.225 | 17.272 | 31.750 |

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: 0.006 kg

Included Parts

Included Parts: Center Stuffercap Coded A/B

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

AX100580 Modular Connectors - CAT5E EZ-MDVO Modular Jack - KeyConnect

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): | 01/01/2006 |
| MII Order #39 (China RoHS): | EUP 50 |
| Telecommunications Standards: | Category 5e - TIA 568.B.2, Category 5 - ISO/IEC 11801:2002 Ed.2 |
| 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 | 65.000 | 77.000 | 65.000 | 67.000 |
| 4.000 | 0.100 | 0.100 | 65.000 | 72.300 | 63.100 | 65.000 |
| 8.000 | 0.100 | 0.100 | 64.900 | 66.200 | 57.000 | 58.900 |
| 10.000 | 0.100 | 0.100 | 63.000 | 64.300 | 55.100 | 57.000 |
| 16.000 | 0.100 | 0.100 | 58.900 | 60.200 | 51.000 | 52.900 |
| 20.000 | 0.100 | 0.100 | 57.000 | 58.300 | 49.100 | 51.000 |
| 25.000 | 0.100 | 0.100 | 55.000 | 56.300 | 47.100 | 49.000 |
| 31.250 | 0.110 | 0.100 | 53.100 | 54.400 | 45.200 | 47.100 |
| 62.500 | 0.160 | 0.120 | 47.100 | 48.400 | 39.200 | 41.100 |
| 100.000 | 0.200 | 0.160 | 43.000 | 44.300 | 35.100 | 37.000 |
| 160.000 | | 0.210 | | 40.200 | | 32.900 |

Mated Connection Table - Footnote:

* TIA/EIA-568-B.2-2001 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 | 28.100 |
| 100.000 | 20.000 | 24.000 |
| 160.000 | | 19.900 |

| | |
|----------------------|----------------------------------|
| 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 |
|-------------------------|-----------|

Notes (Overall)

Notes: Please See Installation Guide PX102753

AX100580 Modular Connectors - CAT5E EZ-MDVO Modular Jack - KeyConnect

Product Family

Part Number List:

| Item Number | Color |
|-------------|------------------|
| AX100577 | Gray |
| AX100578 | Almond |
| AX100579 | White |
| AX100580 | Black |
| AX100581 | Orange (TIA 606) |
| AX100582 | Red (TIA 606) |
| AX100583 | Yellow (TIA 606) |
| AX100584 | Green (TIA 606) |
| AX100585 | Blue (TIA 606) |
| AX100586 | Purple (TIA 606) |
| AX100587 | Brown (TIA 606) |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------|-------|-------------|-------|-------|------------------------|
| AX100580 | 1 EA | 0.024 LB | | | EZ-MDVO KEYST.RJ45 A/B |

Revision Number: 0 Revision Date: 04-26-2013

© 2020 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[AX100580](#)