

AX100653 Modular Connectors - CAT5E EZ-MDVO Modular Jack - MDVO style



For more Information
please call

1-800-Belden1



General Description:

CAT5E EZ-MDVO Modular Jack, RJ45, MDVO-style, Blue (TIA 606)

Usage (Overall)

| | |
|-------------------------------|--|
| Suitable Applications: | IBDN System 1200, TIA Category 5e, ISO Class D, 1000BASE-T |
| Related Parts: | Compatible with Interface and MDVO Style Faceplates, Adapters, Boxes and Patch Panels, |

Physical Characteristics (Connectivity)

Dimensions

Dimensions:

| Height (mm) | Width (mm) | Depth (mm) |
|-------------|------------|------------|
| 18.034 | 19.050 | 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 - UL940V-0 |

Color

Color: Blue (TIA 606)

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: MDVO-Style

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: 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

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

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

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Product Family

Part Number List:

| Item Number | Color |
|-------------|------------------|
| AX100645 | Gray |
| AX100646 | Almond |
| AX100647 | White |
| AX100648 | Black |
| AX100649 | Orange (TIA 606) |
| AX100650 | Red (TIA 606) |
| AX100651 | Yellow (TIA 606) |
| AX100652 | Green (TIA 606) |
| AX100653 | Blue (TIA 606) |
| AX100654 | Purple (TIA 606) |
| AX100655 | Brown (TIA 606) |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------|-------|-------------|-------|-------|----------------------------|
| AX100653 | 1 EA | 0.011 KG | | | EZ-MDVO UTP MODULE, CAT5E, |

Test Reports

a) UL

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CSA

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

* other test data may be available if requested at time of order.

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