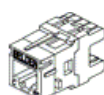


## AX101070 Modular Connectors - CAT6+ Modular Jack - MDVO style



For more Information  
please call

1-800-Belden1



### General Description:

CAT6+ Modular Jack, RJ45, MDVO style, Green (TIA 606)

### Usage (Overall)

|                               |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| <b>Suitable Applications:</b> | IBDN System 2400 and 4800, TIA Category 6+, ISO Class E, 1000 BASE-T                  |
| <b>Related Parts:</b>         | Compatible with Interface and MDVO Style Faceplates, Adapters, Boxes and Patch Panels |

### Physical Characteristics (Connectivity)

#### Dimensions

Dimensions:

| Height (in.) | Width (in.) | Depth (in.) |
|--------------|-------------|-------------|
| 0.765        | 0.770       | 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 +1 Dust Cap

#### 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 | 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 & 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

## AX101070 Modular Connectors - CAT6+ Modular Jack - MDVO style

|                                              |                                                     |
|----------------------------------------------|-----------------------------------------------------|
| <b>Telecommunications Standards:</b>         | Category 6 - TIA 568.B.2-1, ISO/IEC 11801:2002 Ed.2 |
| <b>Third Party Performance Verification:</b> | ETL - Verified Category 6                           |
| <b>Safety Listing:</b>                       | ACA, Bi-national Standard Listed                    |

### Suitability

|                              |              |
|------------------------------|--------------|
| <b>Suitability - Indoor:</b> | 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 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                          |

|                                 |                                  |
|---------------------------------|----------------------------------|
| <b>Dielectric Strength:</b>     | 1,000 V RMS @ 60 Hz for 1 minute |
| <b>Current Rating:</b>          | 1.500 A                          |
| <b>Insulation Resistance:</b>   | 500 M-Ohm Minimum                |
| <b>Max. Contact Resistance:</b> | 20 m-Ohm                         |
| <b>Termination Resistance:</b>  | 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            |
|-------------|------------------|
| AX101063    | Gray             |
| AX101064    | Almond           |
| AX101065    | White            |
| AX101066    | Black            |
| AX101067    | Orange (TIA 606) |
| AX101068    | Red (TIA 606)    |
| AX101069    | Yellow (TIA 606) |
| AX101070    | Green (TIA 606)  |

## AX101070 Modular Connectors - CAT6+ Modular Jack - MDVO style

|          |                  |
|----------|------------------|
| AX101071 | Blue (TIA 606)   |
| AX101072 | Purple (TIA 606) |
| AX101073 | Brown (TIA 606)  |
| AX102563 | Ivory            |

### Put Ups and Colors:

| Item #   | Putup | Ship Weight | Color | Notes | Item Desc                    |
|----------|-------|-------------|-------|-------|------------------------------|
| AX101070 | 1 EA  | 0.024 LB    |       |       | CAT6+ JACK MDVO GREEN TIA606 |

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