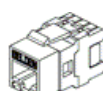


## AX101318 Modular Connectors - CAT6+ Modular Jack - KeyConnect



For more Information  
please call

1-800-Belden1

**General Description:**

CAT6+ Modular Jack, RJ45, KeyConnect style, Gray

**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 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 - UL940V-0                          |

**Color**

|               |      |
|---------------|------|
| <b>Color:</b> | Gray |
|---------------|------|

**Wiring Scheme**

|                       |         |
|-----------------------|---------|
| <b>Wiring Scheme:</b> | T568A/B |
|-----------------------|---------|

**Weight**

|                |            |
|----------------|------------|
| <b>Weight:</b> | 0.014 lbs. |
|----------------|------------|

**Included Parts**

|                        |         |
|------------------------|---------|
| <b>Included Parts:</b> | 1 T-Bar |
|------------------------|---------|

**Packaging**

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| <b>Packaging:</b> | Individually packaged in a plastic bag. Standard pack of 50 units. |
|-------------------|--------------------------------------------------------------------|

**Mechanical Characteristics (Connectivity)**

|                                   |            |
|-----------------------------------|------------|
| <b>Footprint/Type:</b>            | KeyConnect |
| <b>Plug / Jack Compatibility:</b> | RJ45, RJ11 |

Termination Interface:

| Termination | Connection               | Durabilities    |
|-------------|--------------------------|-----------------|
| Front       | Mated Connection         | 1,000 cycles    |
| Rear        | Gas Tight IDC Connection | 20 terminations |

|                                        |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| <b>Connector/Hardware Retention:</b>   | 20 lbs.                                                   |
| <b>Plug/Connector Retention:</b>       | 11.250 lbs.                                               |
| <b>Storage Temperature Range:</b>      | -40°C To +70°C                                            |
| <b>Installation Temperature Range:</b> | -10°C To +60°C                                            |
| <b>Operating Temperature Range:</b>    | -10°C To +60°C                                            |
| <b>Tool Compatibility:</b>             | Belden 110 Connecting Tool, MediaFlex Termination Station |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| <b>Other Standards:</b>                      | FCC Part 68, Subpart F, IEC 60603-7 |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes                                 |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 07/01/2006                          |
| <b>MIL Order #39 (China RoHS):</b>           | EUP 50                              |

**AX101318 Modular Connectors - CAT6+ Modular Jack - KeyConnect**

|                                      |                                                     |
|--------------------------------------|-----------------------------------------------------|
| <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-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                          |

|                             |                                  |
|-----------------------------|----------------------------------|
| <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)**

|                                                      |
|------------------------------------------------------|
| <b>Notes:</b> Please see Installation Guide PX103329 |
|------------------------------------------------------|

|                         |                           |
|-------------------------|---------------------------|
| <b>Notes (Cont'd.):</b> | IDC Wire Gauge: 22~24 AWG |
|-------------------------|---------------------------|

**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)  |

## AX101318 Modular Connectors - CAT6+ Modular Jack - KeyConnect

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

### Put Ups and Colors:

| Item #   | Putup | Ship Weight | Color | Notes | Item Desc             |
|----------|-------|-------------|-------|-------|-----------------------|
| AX101318 | 1 EA  | 0.024 LB    |       |       | CAT6+ JACK KCONN GREY |

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