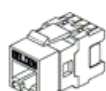


AX101318 Modular Connectors - CAT6+ Modular Jack - KeyConnect



For more Information
please call

1-800-Belden1



General Description:

CAT6+ Modular Jack, RJ45, KeyConnect style, Gray

Usage (Overall)

| | |
|------------------------|----------------------------------------------------------------------------|
| Suitable Applications: | IBDN System 2400, 3600 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 (mm) | Width (mm) | Depth (mm) |
|-------------|------------|------------|
| 22.352 | 16.256 | 32.766 |

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: Gray

Wiring Scheme

Wiring Scheme: T568A/B

Weight

Weight: 0.006 kg

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 | 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

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

METRIC MEASUREMENT VERSION

AX101318 Modular Connectors - CAT6+ Modular Jack - KeyConnect

| | |
|----------------------------------------------|----------------------------------|
| Telecommunications Standards: | ISO/IEC 11801:2002 Ed.2 |
| Third Party Performance Verification: | ETL - Verified Category 6 |
| Safety Listing: | ACA, Bi-national Standard Listed |
| Other Specification: | UL 1863 |

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: 500 M-Ohm Minimum

Max. Contact Resistance: 20 m-Ohm

Termination Resistance: 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 |
|-------------|------------------|
| AX101318 | Gray |
| AX101319 | Almond |
| AX101320 | Elec. White |
| AX101321 | Black |
| AX101322 | Orange (TIA 606) |
| AX101323 | Red (TIA 606) |
| AX101324 | Yellow (TIA 606) |

METRIC MEASUREMENT VERSION

AX101318 Modular Connectors - CAT6+ Modular Jack - KeyConnect

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

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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