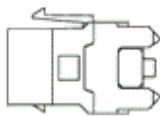


Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

AX101307 Modular Connectors - CAT5E Modular Jack - KeyConnect



For more Information
please call

1-800-Belden1



General Description:

CAT5E Modular Jack, RJ45, KeyConnect style, Gray

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) |
|-------------|------------|------------|
| 22.352 | 16.256 | 32.766 |

Materials

Materials:

| Description | Type | Material |
|------------------|------------|---|
| Front Connection | Lead Frame | Copper Alloy with 50u inch Gold over Nickel |
| Rear Connection | IDC | Copper Alloy 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

Detailed Specifications & Technical Data



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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

MII Order #39 (China RoHS): EUP 50

Telecommunications Standards: Category 5 - ISO/IEC 11801:2002 Ed.2

Third Party Performance Verification: ETL - Verified Category 5e

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 | 77.000 |
| 4.000 | 0.100 | 0.100 | 65.000 | 73.800 | 63.100 | 74.800 |
| 8.000 | 0.100 | 0.100 | 64.900 | 67.700 | 57.000 | 68.700 |
| 10.000 | 0.100 | 0.100 | 63.000 | 65.800 | 55.100 | 66.800 |
| 16.000 | 0.100 | 0.100 | 58.900 | 61.700 | 51.000 | 62.700 |
| 20.000 | 0.100 | 0.100 | 57.000 | 59.800 | 49.100 | 60.800 |
| 25.000 | 0.100 | 0.100 | 55.000 | 57.800 | 47.100 | 58.800 |
| 31.250 | 0.110 | 0.100 | 53.100 | 55.900 | 45.200 | 56.900 |
| 62.500 | 0.160 | 0.120 | 47.100 | 49.900 | 39.200 | 50.900 |
| 100.000 | 0.200 | 0.160 | 43.000 | 45.800 | 35.100 | 46.800 |
| 160.000 | | 0.210 | | 41.700 | | 42.700 |

Mated Connection Table - Footnote:

* TIA/EIA-568-C.2 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) | Min. Balanced TCL Belden** (dB) |
|-----------------|----------------------------|--------------------------------|---------------------------------|
| 1.000 | 30.000 | 32.000 | 42.000 |
| 4.000 | 30.000 | 32.000 | 42.000 |
| 8.000 | 30.000 | 32.000 | 42.000 |
| 10.000 | 30.000 | 32.000 | 42.000 |
| 16.000 | 30.000 | 32.000 | 42.000 |
| 20.000 | 30.000 | 32.000 | 42.000 |
| 25.000 | 30.000 | 32.000 | 42.000 |
| 31.250 | 30.000 | 32.000 | 42.000 |
| 62.500 | 24.100 | 31.100 | 36.100 |
| 100.000 | 20.000 | 27.000 | 32.000 |
| 160.000 | | 22.900 | 27.900 |

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

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

AX101307 Modular Connectors - CAT5E Modular Jack - KeyConnect

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 |
|-------------|------------------|
| AX101307 | Gray |
| AX101308 | Almond |
| AX101309 | Elec. White |
| AX101310 | Black |
| AX101311 | Orange (TIA 606) |
| AX101312 | Red (TIA 606) |
| AX101313 | Yellow (TIA 606) |
| AX101314 | Green (TIA 606) |
| AX101315 | Blue (TIA 606) |
| AX101316 | Purple (TIA 606) |
| AX101317 | Brown (TIA 606) |
| AX103079 | Ivory |
| AX104182 | Orange |
| AX104183 | Red |
| AX104184 | Yellow |
| AX104185 | Green |
| AX104186 | Blue |
| AX104187 | Purple |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------|-------|-------------|-------|-------|-----------------------|
| AX101307 | 1 EA | 0.024 LB | | | CAT5E JACK KCONN GREY |

Revision Number: 1 Revision Date: 05-31-2016

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