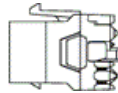


AX102283 Modular Connectors - 10GX Modular Jack -KeyConnect



For more Information
please call

1-800-Belden1



General Description:

10GX Modular Jack, Category 6A, RJ45, KeyConnect, Black

Usage (Overall)

| | |
|-------------------------------|-------------------------------------------------------------------------|
| Suitable Applications: | IBDN System 10GX, TIA Category 6A, ISO Class EA, 10GBASE-T |
| Related Parts: | Compatible with KeyConnect Faceplates, Adapters, Boxes and Patch Panels |

Physical Characteristics (Connectivity)

Dimensions

Dimensions:

| Height (in.) | Width (in.) | Depth (in.) |
|--------------|-------------|-------------|
| 0.900 | 0.675 | 1.170 |

Materials

Materials:

| Description | Type | Material |
|------------------|--------------|----------------------------------------------|
| Front Connection | Flexible PCB | Flexible PCB with 50u inch Gold over Nickel |
| Rear Connection | IDC | Phosphor Bronze with Tin Plating over Nickel |
| Connector Body | N/A | Plastic - UL940V-0 |

Color

Color: Black

Wiring Scheme

Wiring Scheme: T568A/B

Weight

Weight: 0.016 lbs.

Included Parts

Included Parts: 1 X-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 | 750 cycles |
| Rear | IDC Connection | 20 terminations |

Cable/Connector Retention: 15 lbs.

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

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

AX102283 Modular Connectors - 10GX Modular Jack -KeyConnect

| | |
|----------------------------------------------|--------------------------------------------------------------|
| Mill Order #39 (China RoHS): | EUP 50 |
| Telecommunications Standards: | Category 6A - TIA 568.B.2-10, ISO/IEC 11801:2002 Amendment 2 |
| Third Party Performance Verification: | ETL - Verified Category 6A |
| 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 | 0.050 | 75.000 | 77.000 | 75.000 | 80.000 |
| 4.000 | 0.100 | 0.050 | 75.000 | 77.000 | 71.100 | 75.100 |
| 8.000 | 0.100 | 0.050 | 75.000 | 77.000 | 65.000 | 69.000 |
| 10.000 | 0.100 | 0.050 | 74.000 | 77.000 | 63.100 | 67.100 |
| 16.000 | 0.100 | 0.060 | 69.900 | 72.900 | 59.000 | 63.000 |
| 20.000 | 0.100 | 0.070 | 68.000 | 71.000 | 57.100 | 61.100 |
| 25.000 | 0.100 | 0.080 | 66.000 | 69.000 | 55.100 | 59.100 |
| 31.250 | 0.110 | 0.090 | 64.100 | 67.100 | 53.200 | 57.200 |
| 62.500 | 0.160 | 0.140 | 58.100 | 61.100 | 47.200 | 51.200 |
| 100.000 | 0.200 | 0.180 | 54.000 | 57.000 | 43.100 | 47.100 |
| 200.000 | 0.280 | 0.260 | 48.000 | 51.000 | 37.100 | 41.100 |
| 250.000 | 0.320 | 0.300 | 46.000 | 49.000 | 35.100 | 39.100 |
| 300.000 | 0.350 | 0.330 | 42.900 | 46.700 | 33.600 | 37.600 |
| 400.000 | 0.400 | 0.380 | 37.900 | 42.900 | 31.100 | 35.100 |
| 500.000 | 0.450 | 0.430 | 34.000 | 40.000 | 29.100 | 33.100 |
| 625.000 | | 0.480 | | 37.100 | | 31.200 |

Mated Connection Table - Footnote:

* TIA/EIA-568-B.2-10-2008 Category 6A Standard.

** Worst-case performance for a 10GX mated connection using 10GX modular plugs.

Mated Connection Table 2:

| Frequency (MHz) | Min. Return Loss TIA* (dB) | Min. Return Loss Belden** (dB) | Min. PSANEXT TIA* (dB) | Min. PSANEXT Belden** (dB) | Min. PSAACRF TIA* (dB) | Min. PSAACRF Belden** (dB) | Min. Balanced TCL TIA* (dB) | Min. Balanced TCL Belden** (dB) |
|-----------------|----------------------------|--------------------------------|------------------------|----------------------------|------------------------|----------------------------|-----------------------------|---------------------------------|
| 1.000 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 4.000 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 8.000 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 10.000 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 16.000 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 20.000 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 25.000 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 40.000 | 45.000 |
| 31.250 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 38.100 | 45.000 |
| 62.500 | 30.000 | 34.100 | 70.500 | 72.000 | 67.000 | 72.000 | 32.100 | 39.100 |
| 100.000 | 28.000 | 30.000 | 70.500 | 72.000 | 67.000 | 72.000 | 28.000 | 35.000 |
| 200.000 | 22.000 | 24.000 | 64.500 | 66.000 | 61.000 | 66.000 | 22.000 | 29.000 |
| 250.000 | 20.000 | 22.000 | 62.500 | 64.000 | 59.000 | 64.000 | 20.000 | 27.000 |
| 300.000 | 18.500 | 20.500 | 61.000 | 62.500 | 57.500 | 62.500 | 18.500 | 25.500 |
| 400.000 | 16.000 | 18.000 | 58.500 | 60.000 | 55.000 | 60.000 | 16.000 | 23.000 |
| 500.000 | 14.000 | 16.000 | 56.500 | 58.000 | 53.000 | 58.000 | 14.000 | 21.000 |
| 625.000 | | 13.000 | | 56.100 | | 56.100 | | 19.100 |

Dielectric Strength: 1,000 V RMS @ 60 Hz for 1 minute

Current Rating: 1.500 A

Insulation Resistance: 50 M-Ohm Minimum

Max. Contact Resistance: 20 m-Ohm

Termination Resistance: 2.5 m-Ohm

Notes (Overall)

Notes: Please see Installation Guide PX103771.

Product Family

Part Number List:

| Item Number | Color |
|-------------|--------|
| AX102280 | Gray |
| AX102281 | Almond |

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| | |
|----------|------------------|
| AX102282 | Elec. White |
| AX102283 | Black |
| AX102284 | Orange (TIA 606) |
| AX102285 | Red (TIA 606) |
| AX102286 | Yellow (TIA 606) |
| AX102287 | Green (TIA 606) |
| AX102288 | Blue (TIA 606) |
| AX102289 | Purple (TIA 606) |
| AX103073 | Ivory |
| AX104152 | Orange |
| AX104153 | Red |
| AX104154 | Yellow |
| AX104155 | Green |
| AX104156 | Blue |
| AX104157 | Purple |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------|-------|-------------|-------|-------|-----------------------|
| AX102283 | 1 EA | 0.024 LB | | | 10GX JACK KCONN BLACK |

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