

# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

### 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 (in.)	Width (in.)	Depth (in.)
0.880	0.640	1.290

##### 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:	0.014 lbs.
---------	------------

##### 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:	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
---------------------------------------	------------

MII Order #39 (China RoHS):	EUP 50
-----------------------------	--------

# Detailed Specifications & Technical Data



## ENGLISH 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)

# Detailed Specifications & Technical Data



ENGLISH 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

Revision Number: 1 Revision Date: 09-12-2017

© 2017 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[AX101318](#)