

AX104562 Modular Connectors - 10GX Shielded KeyConnect Modular Jack



For more Information
please call

1-800-Belden1

**General Description:**

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

Usage (Overall)

Suitable Applications:	IBDN Shielded System 10GX, TIA Screened Category 6A , ISO Class EA, 10GBASE-T
Related Parts:	Compatible with Shielded KeyConnect Patch Panels 24-p , 48-p, See notes if using with Belden faceplates.

Physical Characteristics (Connectivity)**Dimensions**

Dimensions:

Height (in.)	Width (in.)	Depth (in.)
1.000	0.675	1.570

Materials

Materials:

Description	Type	Material
Front Connection	RJ45	Phosphor Bronze with 50u inch Gold over Nickel Plating
Rear Connection	IDC	Phosphor Bronze with Tin Plating over Nickel
Connector Body	N/A	Metal

Wiring Scheme

Wiring Scheme:	T568A/B
-----------------------	---------

Weight

Weight:	0.048 lbs.
----------------	------------

Included Parts

Included Parts:	1 Termination Bar, 1 cable Tie
------------------------	--------------------------------

Packaging

Packaging:	Individually packaged in a plastic bag. Standard pack of 70 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 +75°C
Operating Temperature Range:	-10°C To +60°C
Tool Compatibility:	Tool Less

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 6A - TIA 568.C.2, Class EA - ISO/IEC 11801:2002 Amendment 2

AX104562 Modular Connectors - 10GX Shielded KeyConnect Modular Jack

Third Party Performance Verification:

E IL - Verified Category 6A

Safety Listing:

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	76.000	63.100	67.100
16.000	0.100	0.060	69.900	71.900	59.000	63.000
20.000	0.100	0.070	68.000	70.000	57.100	61.100
25.000	0.100	0.080	66.000	68.000	55.100	59.100
31.250	0.110	0.090	64.100	66.100	53.200	57.200
62.500	0.160	0.140	58.100	60.100	47.200	51.200
100.000	0.200	0.180	54.000	56.000	43.100	47.100
200.000	0.280	0.260	48.000	50.000	37.100	41.100
250.000	0.320	0.300	46.000	47.900	35.100	39.100
300.000	0.350	0.330	42.900	45.200	33.600	37.600
400.000	0.400	0.380	37.900	40.800	31.100	35.100
500.000	0.450	0.430	34.000	37.400	29.100	33.100
625.000		0.480		34.000		31.200

Mated Connection Table - Footnote:

* TIA/EIA-568-C.2 Category 6A Standard.

** Worst-case performance for a 10GX mated connection using 10GX modular plugs. Compliant with TIA/EIA-568-C.2 Category 6A Standard and ISO/IEC 11801:2002 Amendment 2.

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	75.000	67.000	75.000	40.000	45.000
4.000	30.000	34.100	70.500	75.000	67.000	75.000	40.000	45.000
8.000	30.000	34.100	70.500	75.000	67.000	75.000	40.000	45.000
10.000	30.000	34.100	70.500	75.000	67.000	75.000	40.000	45.000
16.000	30.000	34.100	70.500	75.000	67.000	75.000	40.000	45.000
20.000	30.000	34.100	70.500	75.000	67.000	75.000	40.000	45.000
25.000	30.000	34.100	70.500	75.000	67.000	75.000	40.000	45.000
31.250	30.000	34.100	70.500	75.000	67.000	75.000	38.100	45.000
62.500	30.000	34.100	70.500	75.000	67.000	75.000	32.100	39.100
100.000	28.000	30.000	70.500	75.000	67.000	75.000	28.000	35.000
200.000	22.000	24.000	64.500	75.000	61.000	75.000	22.000	29.000
250.000	20.000	22.000	62.500	75.000	59.000	75.000	20.000	27.000
300.000	18.500	19.500	61.000	75.000	57.500	75.000	18.500	25.500
400.000	16.000	17.000	58.500	75.000	55.000	75.000	16.000	23.000
500.000	14.000	15.000	56.500	75.000	53.000	73.000	14.000	21.000
625.000		13.000		75.000		70.000		19.100

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: IDC Wire Gauge: 22~24 AWG. Max cable OD 8.55mm (0.336 in.) May not be compatible with all Belden faceplates. Please contact Belden Technical Support for compatibility verification.

Product Family

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX104562	1 EA	0.040 KG			10GX Shielded Modular Jack

AX104562 Modular Connectors - 10GX Shielded KeyConnect Modular Jack

Revision Number: 0 Revision Date: 07-27-2017

© 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.