

## 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)

<b>Suitable Applications:</b>	IBDN Shielded System 10GX, TIA Screened Category 6A , ISO Class EA, 10GBASE-T
<b>Related Parts:</b>	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

<b>Wiring Scheme:</b>	T568A/B
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#### Weight

<b>Weight:</b>	0.048 lbs.
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#### Included Parts

<b>Included Parts:</b>	1 Termination Bar, 1 cable Tie
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#### Packaging

<b>Packaging:</b>	Individually packaged in a plastic bag. Standard pack of 70 units.
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### Mechanical Characteristics (Connectivity)

<b>Footprint/Type:</b>	KeyConnect
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<b>Plug / Jack Compatibility:</b>	RJ45, RJ11
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Termination Interface:

Termination	Connection	Durabilities
Front	Mated Connection	750 cycles
Rear	IDC Connection	20 terminations

<b>Cable/Connector Retention:</b>	15 lbs.
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<b>Connector/Hardware Retention:</b>	20 lbs.
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<b>Plug/Connector Retention:</b>	11.250 lbs.
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<b>Storage Temperature Range:</b>	-40°C To +75°C
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<b>Operating Temperature Range:</b>	-10°C To +60°C
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<b>Tool Compatibility:</b>	Tool Less
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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>Other Standards:</b>	FCC Part 68, Subpart F, IEC 60603-7
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<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
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<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	07/01/2006
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<b>MII Order #39 (China RoHS):</b>	EUP 50
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<b>Telecommunications Standards:</b>	Category 6A - TIA 568.C.2, Class EA - ISO/IEC 11801:2002 Amendment 2
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## AX104562 Modular Connectors - 10GX Shielded KeyConnect Modular Jack

Third Party Performance Verification: E I L - 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

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