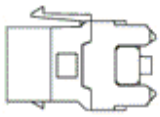
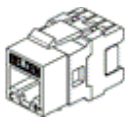
Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

AX101326 Modular Connectors - CAT6+ Modular Jack - KeyConnect





For more Information please call

1-800-Belden1

General Description:

CAT6+ Modular Jack, RJ45, KeyConnect style, Blue (TIA 606)

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 (mm)	Width (mm)	Depth (mm)
22.352	16.256	32.766

Materials

Materials:

Description	Type	Material
Front Connection	Lead Frame	Copper Allow with 50u inch Gold over Nickel
Rear Connection	IDC	Copper Allow with Nickel Plating
Connector Body		Plastic - UL940V-0

Color

Color:	Blue (TIA 606)

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
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:	ISO/IEC 11801:2002 Ed.2
Third Party Performance Verification:	ETL - Verified Category 6
Safety Listing:	ACA, Bi-national Standard Listed
Other Specification:	IEC 60512-99-001, 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-C.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)
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
AX101326	1 EA	0.024 LB			CAT6+ JACK KCONN BLUE TIA606

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

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