Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

AX103256 Faceplates and Panels - 10GX Patch Panel - KeyConnect





For more Information please call

1-800-Belden1

General Description:

10GX KeyConnect Patch Panel, 48-port, 2U, Titanium

Usage (Overall)

Suitable Applications:	IBDN System 10GX, TIA Category 6A, ISO Class EA, 10GBASE-T
Related Parts:	10GX Modular Cords

Physical Characteristics (Connectivity)

Capacity

Max. Capacity:	48 connectors (Patch panel is already loaded)

Access

Front Connection:	Flush
Termination Area:	Rear

Dimensions

Dimensions:

Height (in.)	Width (in.)	Depth (in.)
3.500	19.000	1.300

Materials

Materials:

Description	Material
Panel	Steel

Color

Color:	Titanium

Weight

Weight:	2.500 lbs.

Included Parts

Included Parts:	4 Screws (10x32); 4 Screws (12x24); 1 Label Holder; 1 Printable LabelFlex Half-Sheet; 2 Velcro Straps; 2 cable management brakets; 1 Installation Guide; 1 kit 10GX X-BAR

Packaging

Packaging:	Individually packaged in a cardboard box.

Mechanical Characteristics (Connectivity)

Plug / Jack Compatibility:	RJ45

Termination Interface:

Termination	Connection	Durabilities
Rear	IDC Connection	10 Insertions
Front	Mated Connection	750 Cycles

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:	Gigaflex Connecting Tool (AX100749)

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):	01/10/2008
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	Category 6A - TIA 568.B.2-10, ISO/IEC 11801:2002 Amendment 2

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Safety Listing:	ACA, Bi-national Standard Listed

Suitability

Suitability - Indoor:	Yes

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	50.000
4.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	50.000
8.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	50.000
10.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	50.000
16.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	50.000
20.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	50.000
25.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	50.000
31.250	30.000	34.100	70.500	72.000	67.000	72.000	38.100	48.100
62.500	30.000	34.100	70.500	72.000	67.000	72.000	32.100	42.100
100.000	28.000	30.000	70.500	72.000	67.000	72.000	28.000	38.000
200.000	22.000	24.000	64.500	66.000	61.000	66.000	22.000	32.000
250.000	20.000	22.000	62.500	64.000	59.000	64.000	20.000	30.000
300.000	18.500	20.500	61.000	62.500	57.500	62.500	18.500	28.500
400.000	16.000	18.000	58.500	60.000	55.000	60.000	16.000	26.000
500.000	14.000	16.000	56.500	58.000	53.000	58.000	14.000	24.000
625.000		13.000		56.100		56.100		22.100

Dielectric Strength:	1,000 V RMS @ 60Hz 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: For proper installation refer to Installation Guide PX104691 included with the product or visit our web site at http://www.belden.com

Product Family

Part Numbers:

Description	Item Number
KeyConnect PP 10GX, 1U24P wt coupler, Titanium	AX104141
KeyConnect PP 10GX, 2U48P wt coupler, Titanium	AX104142
KeyConnect PP 10GX, 1U24P, Titanium	AX103254
KeyConnect PP 10GX, 2U48P, Titanium	AX103256
KeyConnect UHDPP 10GX, 1U48P, Titanium	AX103264
KeyConnect PP 10GX, 1U48P, wt coupler, Titanium	AX104592

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Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX103256	1 EA	2.671 LB			10GX KCONN PATCH PANEL 48-P 2U

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