# **Detailed Specifications & Technical Data**

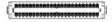
#### **ENGLISH MEASUREMENT VERSION**

**Applicable Standards & Environmental Programs** 

EU Directive 2002/95/EC (RoHS):



# AX103255 Faceplates and Panels - CAT6+ Patch Panel - KeyConnect







For more Information please call

1-800-Belden1



#### **General Description:** CAT6+ KeyConnect Patch Panel, 48-port, 2U, Black Usage (Overall) Suitable Applications: IBDN System 4800, 3600, 2400, TIA Category 6, ISO Class E, 1000BASE-T Related Parts: CAT6+ Modular Cords **Physical Characteristics (Connectivity)** Capacity Max. Capacity: 48 connectors ( Patch Panel is already loaded ) Access Front Connection: Flush Termination Area: **Dimensions** Dimensions: Height (in.) Width (in.) Depth (in.) 3.500 19.000 1.300 **Materials** Materials: Steel, # 16 Gauge Color Color: Black Weight 2.500 lbs. Weight: **Included Parts Included Parts:** 4 Screws (10x32); 4 Screws (12x24); 1 Label Holder; 1 Printable LabelFlex Half-Sheet; 2 Velcro Straps; 2 Rear Cable Management Bracket; 1 Installation Guide; 1 kit Termination Bar **Packaging** Packaging: Individually packaged in a cardboard box. **Mechanical Characteristics (Connectivity)** Footprint/Type: KeyConnect Plug / Jack Compatibility: R.145 Termination Interface: Mated Connection | 750 Cycles IDC Connection Rear 10 Insertions **Termination Characteristics: Termination Characteristic** Universal T568A/B -40°C To +70°C Storage Temperature Range: -10°C To +60°C Installation Temperature Range: Operating Temperature Range: -10°C To +60°C **Tool Compatibility:** Belden 110 Connecting Tool (AX100749) Applicable Specifications and Agency Compliance (Overall)

Yes

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#### **ENGLISH MEASUREMENT VERSION**



# AX103255 Faceplates and Panels - CAT6+ Patch Panel - KeyConnect

	EU RoHS Compliance Date (mm/dd/yyyy):	01/30/2008			
	MII Order #39 (China RoHS):	Yes			
Telecommunications Standards: Category 6 - TIA 568.C.2, ISO/IEC		Category 6 - TIA 568.C.2, ISO/IEC 11801:2002 Ed.2, EIA/ECA 310			
Third Party Performance Verification: ETL - Ve		ETL - Verified Category 6			
	Safety Listing:	Bi-national Standard Listed			
Other Specification: UL 1863		UL 1863			
Sui	itability				
	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	0.100	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:

#### Mated Connection Table 2:

Frequency (MHz)	Min. Return Loss TIA* (dB)	Min. Return Loss Belden** (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	20.000	20.000	24.000
300.000		18.500		22.500

**Dielectric Strength:** 1,000 V RMS @ 60Hz for 1 minute

Current Rating:	1.500 A		
Insulation Resistance:	500 M-Ohm Minimum		
Max. Contact Resistance:	20m-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 CAT6, 1U24P, Black	AX103253
KeyConnect PP CAT6, 2U48P, Black	AX103255
KeyConnect UHDPP CAT6, 1U48P, Black	AX103263
KeyConnect PP CAT6, 1U24P wt couplers, Black	AX104227
KeyConnect PP CAT6, 2U48P wt couplers, Black	AX104228
KeyConnect PP CAT6, 1U48P wt couplers, Black	AX104591

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<sup>\*</sup> TIA-EIA-568-B.2-1 Category 6 Standard. \*\* Worst-case performance for a CAT6+ mated connection using CAT6+ modular plugs.

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#### **ENGLISH MEASUREMENT VERSION**



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#### **Put Ups and Colors:**

Ite	em #	Putup	Ship Weight	Color	Notes	Item Desc
	K103255	1 EA	3.968 LB			CAT6+ KCONN PATCH PANEL 48-P

Revision Number: 0 Revision Date: 12-17-2014

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