## **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## AX100648 Modular Connectors - CAT5E EZ-MDVO Modular Jack - MDVO style







For more Information please call

1-800-Belden1



### **General Description:**

CAT5E EZ-MDVO Modular Jack, RJ45, MDVO-style, Black

## Usage (Overall)

Suitable Applications:	IBDN System 1200, TIA Category 5e, ISO Class D, 1000BASE-T
Related Parts:	Compatible with Interface and MDVO Style Faceplates, Adapters, Boxes and Patch Panels,

### **Physical Characteristics (Connectivity)**

#### **Dimensions**

Dimensions:

Height (in.)	Width (in.)	Depth (in.)
0.710	0.750	1.250

#### **Materials**

#### Materials:

Description	Туре	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

	Front Connection	Lead Frame	Copper Allow with 500 inch Gold over Nickel
	Rear Connection	IDC	Copper Allow with Nickel Plating
	Connector Body		Plastic - UL940V-0
. '			

## Color: Wiring Scheme

Wiring Scheme: T568A/B

## Weight

Weight: 0.013 lbs.

### **Included Parts**

Included Parts: Center Stuffercap Coded A/B

**Durabilities** 

1,000 cycles

#### **Packaging**

Packaging: Individually packaged in a plastic bag. Standard pack of 50 units.

Black

## **Mechanical Characteristics (Connectivity)**

Mated Connection

Footprint/Type: MDVO-Style Plug / Jack Compatibility: RJ45, RJ11

## Termination Interface:

**Termination Connection** 

Rear	Gas Tight IDC Connection 20 terminations	
Conne	ector/Hardware Retention:	20 lbs.
Plug/0	Connector Retention:	11.250 lbs.
Storag	e Temperature Range:	-40°C To +70°C
Install	ation Temperature Range:	-10°C To +60°C

-10°C To +60°C

## **Applicable Specifications and Agency Compliance (Overall)**

#### **Applicable Standards & Environmental Programs**

**Operating Temperature Range:** 

Other Standards:	FCC Part 68, Subpart F, IEC 60603-7	
EU Directive 2002/95/EC (RoHS):	Yes	
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2006	
MII Order #39 (China RoHS):	EUP 50	
Telecommunications Standards:	Category 5a - TIA 568 R 2 Category 5 - ISO/IEC 11801-2002 Ed 2	

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ACA, Bi-national Standard Listed Safety Listing: 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	65.000	77.000	65.000	67.000
4.000	0.100	0.100	65.000	72.300	63.100	65.000
8.000	0.100	0.100	64.900	66.200	57.000	58.900
10.000	0.100	0.100	63.000	64.300	55.100	57.000
16.000	0.100	0.100	58.900	60.200	51.000	52.900
20.000	0.100	0.100	57.000	58.300	49.100	51.000
25.000	0.100	0.100	55.000	56.300	47.100	49.000
31.250	0.110	0.100	53.100	54.400	45.200	47.100
62.500	0.160	0.120	47.100	48.400	39.200	41.100
100.000	0.200	0.160	43.000	44.300	35.100	37.000
160.000		0.210		40.200		32.900

Mated Connection Table - Footnote:

#### Mated Connection Table 2:

Frequency (MHz)	Min. Return Loss TIA* (dB)	Min. Return Loss Belden** (dB)
1.000	30.000	32.000
4.000	30.000	32.000
8.000	30.000	32.000
10.000	30.000	32.000
16.000	30.000	32.000
20.000	30.000	32.000
25.000	30.000	32.000
31.250	30.000	32.000
62.500	24.100	28.100
100.000	20.000	24.000
160.000		19.900

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 PX102753

## **Product Family**

#### Part Number List:

Item Number	Color
AX100645	Gray
AX100646	Almond
AX100647	White
AX100648	Black
AX100649	Orange (TIA 606)
AX100650	Red (TIA 606)
AX100651	Yellow (TIA 606)
AX100652	Green (TIA 606)
AX100653	Blue (TIA 606)
AX100654	Purple (TIA 606)
AX100655	Brown (TIA 606)

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX100648	1 EA	0.024 LB			EZ-MDVO UTP MODULE, CAT5E,

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<sup>\*</sup> TIA/EIA-568-B.2-2001 Category 5E Standard.
\*\* Worst-case performance for a CAT5E mated connection using CAT5E modular plugs.

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Revision Date: 04-26-2013 Revision Number: 0

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