

## AX100650 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, Red (TIA 606)

### Usage (Overall)

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

### Physical Characteristics (Connectivity)

#### Dimensions

Dimensions:

Height (mm)	Width (mm)	Depth (mm)
18.034	19.050	31.750

#### 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:** Red (TIA 606)

#### Wiring Scheme

**Wiring Scheme:** T568A/B

#### Weight

**Weight:** 0.006 kg

#### Included Parts

**Included Parts:** Center Stuffercap Coded A/B

#### Packaging

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

### Mechanical Characteristics (Connectivity)

**Footprint/Type:** MDVO-Style

**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

## AX100650 Modular Connectors - CAT5E EZ-MDVO Modular Jack - MDVO style

Operating Temperature Range: -10°C To +60°C

### 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):	01/01/2006
MII Order #39 (China RoHS):	EUP 50
Telecommunications Standards:	Category 5e - TIA 568.B.2, Category 5 - ISO/IEC 11801:2002 Ed.2
Safety Listing:	ACA, 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	0.100	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:

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

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

## AX100650 Modular Connectors - CAT5E EZ-MDVO Modular Jack - MDVO style

### 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
AX100650	1 EA	0.024 LB			EZ-MDVO UTP MODULE, CAT5E,

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