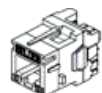
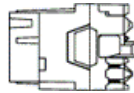


## AX102277 Modular Connectors - 10GX Modular Jack - MDVO style



For more Information  
please call

1-800-Belden1



### General Description:

10GX Modular Jack, Category 6A, RJ45, MDVO-style, Blue (TIA606)

### Usage (Overall)

<b>Suitable Applications:</b>	IBDN System 10GX, TIA Category 6A, ISO Class E, 10GBASE-T
<b>Related Parts:</b>	Compatible with Interface and MDVO Style Faceplates, Adapters, Boxes and Patch Panels

### Physical Characteristics (Connectivity)

#### Dimensions

Dimensions:

Height (in.)	Width (in.)	Depth (in.)
0.780	0.770	1.170

#### Materials

Materials:

Description	Type	Material
Front Connection	Flexible PCB	Flexible PCB with 50u inch Gold over Nickel
Rear Connection	IDC	Phosphor Bronze with Tin Plating over Nickel
Connector Body	N/A	Plastic - UL94V-0

#### Color

**Color:** Blue (TIA 606)

#### Wiring Scheme

**Wiring Scheme:** T568A/B

#### Weight

**Weight:** 0.016 lbs.

#### Included Parts

**Included Parts:** 1 X-Bar + 1 dust cap

#### 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	750 cycles
Rear	IDC Connection	20 terminations

**Cable/Connector Retention:** 15 lbs.

**Connector/Hardware Retention:** 20 lbs.

**Plug/Connector Retention:** 11.250 lbs.

**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

### 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

## AX102277 Modular Connectors - 10GX Modular Jack - MDVO style

<b>Mill Order #39 (China RoHS):</b>	EUP 50
<b>Telecommunications Standards:</b>	Category 6A - TIA 568.B.2-10, ISO/IEC 11801:2002 Amendment 2
<b>Third Party Performance Verification:</b>	ETL - Verified Category 6A
<b>Safety Listing:</b>	ACA, Bi-national Standard Listed

### Suitability

<b>Suitability - Indoor:</b>	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	0.050	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	45.000
4.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
8.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
10.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
16.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
20.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
25.000	30.000	34.100	70.500	72.000	67.000	72.000	40.000	45.000
31.250	30.000	34.100	70.500	72.000	67.000	72.000	38.100	45.000
62.500	30.000	34.100	70.500	72.000	67.000	72.000	32.100	39.100
100.000	28.000	30.000	70.500	72.000	67.000	72.000	28.000	35.000
200.000	22.000	24.000	64.500	66.000	61.000	66.000	22.000	29.000
250.000	20.000	22.000	62.500	64.000	59.000	64.000	20.000	27.000
300.000	18.500	20.500	61.000	62.500	57.500	62.500	18.500	25.500
400.000	16.000	18.000	58.500	60.000	55.000	60.000	16.000	23.000
500.000	14.000	16.000	56.500	58.000	53.000	58.000	14.000	21.000
625.000		13.000		56.100		56.100		19.100

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

**Current Rating:** 1.500 A

**Insulation Resistance:** 50 M-Ohm Minimum

**Max. Contact Resistance:** 20 m-Ohm

**Termination Resistance:** 2.5 m-Ohm

### Notes (Overall)

**Notes:** Please see Installation Guide PX103771

### Product Family

Part Number List:

Item Number	Color
AX102269	Gray
AX102270	Almond

## AX102277 Modular Connectors - 10GX Modular Jack - MDVO style

AX102271	White
AX102272	Black
AX102273	Orange (TIA 606)
AX102274	Red (TIA 606)
AX102275	Yellow (TIA 606)
AX102276	Green (TIA 606)
AX102277	Blue (TIA 606)
AX102278	Purple (TIA 606)
AX102562	Ivory

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX102277	1 EA	0.024 LB			10GX JACK MDVO BLUE TIA606

Revision Number: 0    Revision Date: 12-01-2008

© 2017 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.