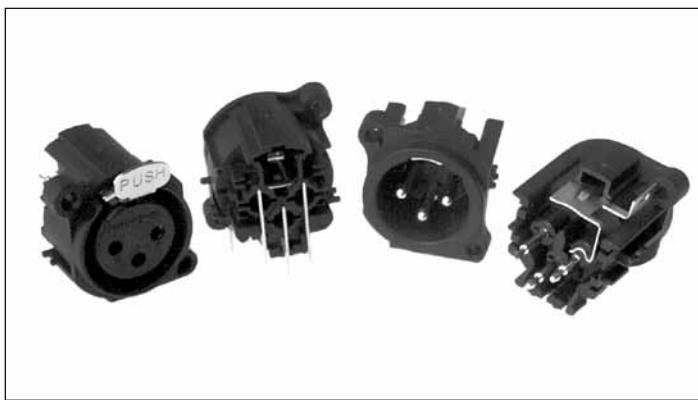


# Amphenol

AC SERIES CHASSIS CONNECTORS

## THERMOPLASTIC A - TYPE FLANGE 3 CONTACT



### Features:

- Thermoplastic Shell
- Industry standard PCB footprints.
- Vertical or Horizontal PCB mounting.
- Precision machined pin contacts.
- Gold plated contacts.
- Leading first mate last break socket contact.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system.

**Options:** Silver plated contacts, Vertical or Horizontal PCB, Various grounding methods, Latching or Non-Latching.

**Part Number Breakdown:** Page 44-45 **Specifications:** Page 47

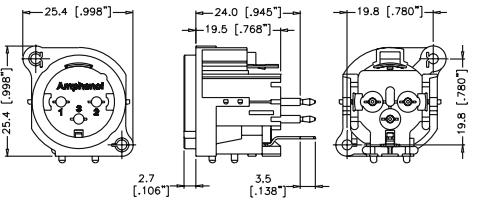
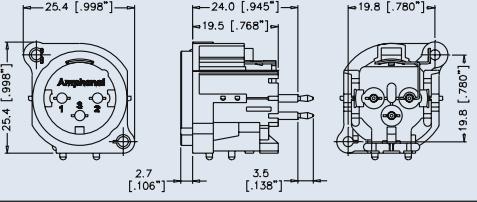
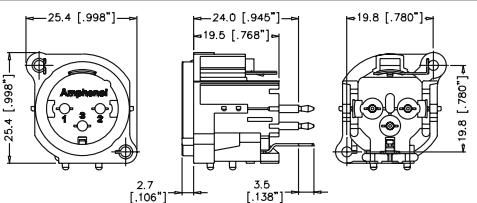
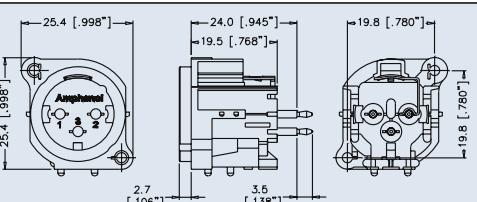
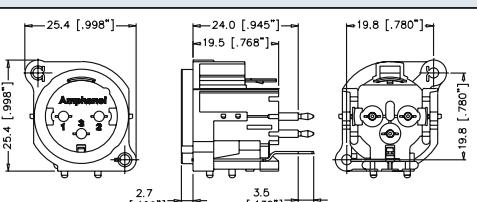
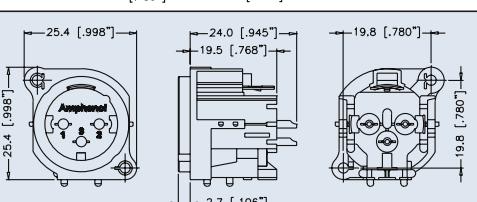
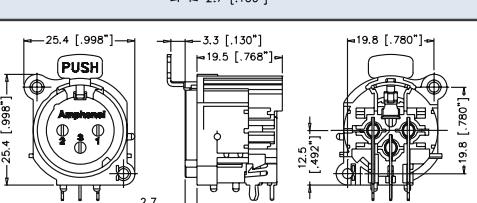
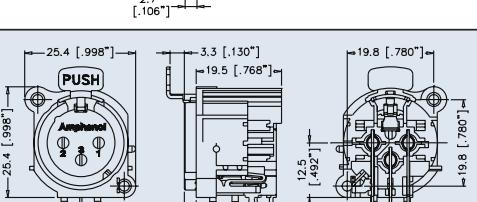
**PCB Footprints:** Page 48

**Panel Cutouts:** Page 49

**Recommended Fastener:** Page 132



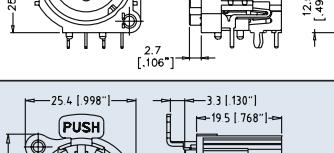
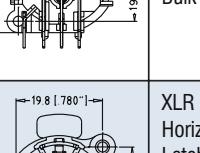
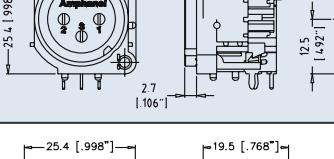
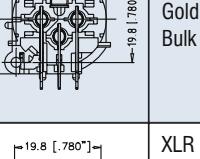
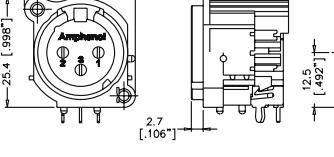
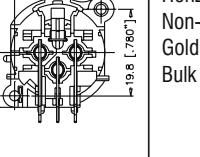
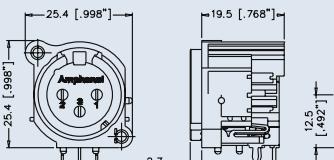
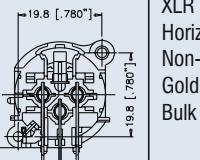
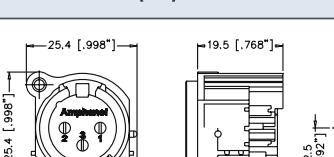
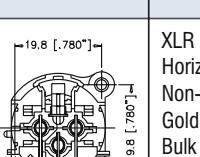
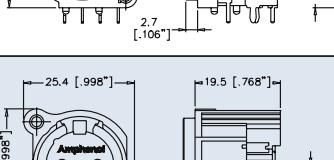
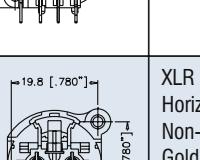
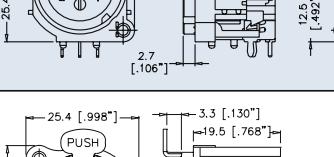
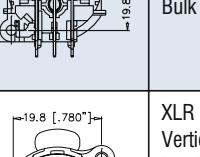
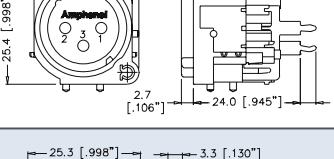
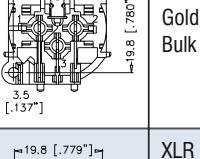
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	<a href="#">AC3MAH-AU-B</a>
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	<a href="#">AC3MAH1-AU-B</a>
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	<a href="#">AC3MAH2-AU-B</a>
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	<a href="#">AC3MAH3-AU-B</a>
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	<a href="#">AC3MAH4-AU-B</a>
			XLR 3 pole male with integrated switch, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	<a href="#">AC3MAH4-SW-B</a>

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAV1-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	AC3MAV3-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. ground	AC3MAV4-AU-B
			XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MA-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-B

# Amphenol

## AC SERIES CHASSIS CONNECTORS

## **THERMOPLASTIC A TYPE FLANGE**

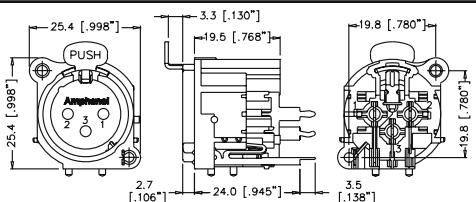
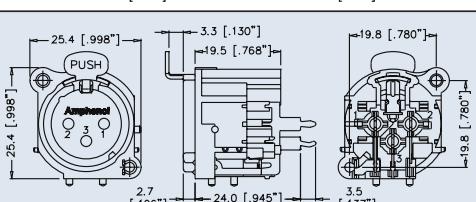
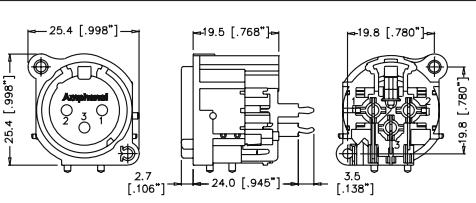
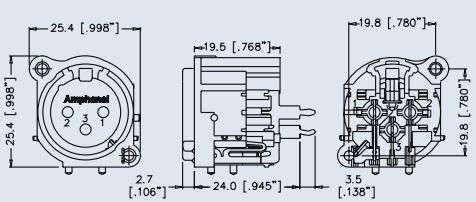
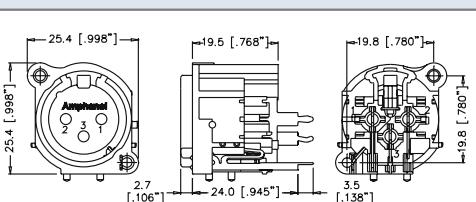
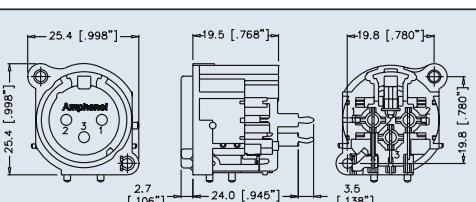
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3FAH2-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAH3-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAHL-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	AC3FAHL1-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAHL2-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAHL3-AU-B
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAV-AU-B
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	AC3FAV1-AU-B



# Amphenol

AC SERIES CHASSIS CONNECTORS

THERMOPLASTIC A TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAV2-AU-B
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAV3-AU-B
			XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAVL-AU-B
			XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAVL1-AU-B
			XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAVL2-AU-B
			XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAVL3-AU-B



# Amphenol

AC SERIES CHASSIS CONNECTORS

## THERMOPLASTIC A - TYPE FLANGE 5 CONTACT



### Features:

- 5 contacts.
- Thermoplastic Shell
- Industry standard PCB footprints.
- Vertical or Horizontal PCB mounting.
- Precision machined pin contacts.
- Gold plated contacts.
- Leading first mate last break socket contact.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system.

**Options:** Vertical or Horizontal PCB,

**Part Number Breakdown:** Page 46    **Specifications:** Page 47  
**PCB Footprints:** Page 48    **Panel Cutouts:** Page 49  
**Recommended Fastener:** Page 132



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
			XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	<a href="#">AC5MAH-AU-B</a>
			XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	<a href="#">AC5MAV-AU-B</a>
			XLR 5 pole female, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	<a href="#">AC5FAH-AU-B</a>
			XLR 5 pole female, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	<a href="#">AC5FAV-AU-B</a>

## PART NUMBER BREAKDOWN

### AC SERIES A AND B TYPE MALE - 3 CONTACT

SERIES PREFIX	AC	CONTACT LAYOUTS	3	GENDER	M	SHELL SERIES	B	TERMINATION	V	Mounting Flange Finish	B	LOCKING MECHANISM	L	Grounding Options	3	CONTACT PLATING	-	AU	PACKAGING	B
E. G. AC3MAVL3-AU B																				
AC (series prefix), 3 contacts, Male, A Type, Vertical Printed Circuit Board, Latchless, 3 (Mating Shell to Pin 1 Grounding), - AU (Gold Plated Contacts), Bulk Packaged.																				
<b>SERIES PREFIX</b>	AC	≡	Series Prefix																	
<b>CONTACT LAYOUT</b>	3	≡	3 Contacts only																	
<b>GENDER</b>	M	≡	Male Pin Contacts																	
<b>SHELL SERIES</b>	A	≡	A Type																	
	B	≡	B Type																	
<b>TERMINATION</b>	H	≡	Horizontal Printed Circuit Board																	
	V	≡	Vertical Printed Circuit Board																	
	Blank	≡	Solder Bucket Contacts																	
<b>MOUNTING FLANGE FINISH (B TYPE ONLY)</b>	Blank	≡	Nickel																	
	B	≡	Black																	
<b>LOCKING MECHANISM</b>	Blank	≡	Latching																	
	L	≡	Latchless																	
<b>GROUNDING LINK OPTIONS</b>	Blank	≡	No Ground Link																	
	1	≡	Pin 1 to Chassis to mating connector shell																	
	2	≡	Mating connector shell to Chassis, Pin 1 separate ground.																	
	3	≡	Mating connector to Pin 1																	
	4	≡	Mating connector to Shell to Chassis to PCB, Pin 1 separate ground																	
<b>CONTACT PLATING</b>	AU	≡	Gold Plated Contacts																	
	AG	≡	Silver Plated Contacts (Non-Standard)																	
<b>PACKAGING</b>	B	≡	Bulk Packed																	



## PART NUMBER BREAKDOWN

### AC SERIES A AND B TYPE FEMALE - 3 CONTACT

SERIES PREFIX	AC	CONTACT LAYOUTS	3	GENDER	F	SHELL SERIES	B	TERMINATION	V	Mounting Flange Finish	B	LOCKING MECHANISM	L	Grounding Options	3	CONTACT PLATING	-	AU	PACKAGING	B
E. G. <b>AC3FAVL3-AU B</b>																				

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT</b>	3	=	3 Contacts only
<b>GENDER</b>	F	=	Female Socket Contacts
<b>SHELL SERIES</b>	A	=	A Type
	B	=	B Type
<b>TERMINATION</b>	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
<b>MOUNTING FLANGE FINISH (B TYPE ONLY)</b>	Blank	=	Nickel
	B	=	Black
<b>LOCKING MECHANISM</b>	Blank	=	Latching
	L	=	Latchless
<b>GROUNDING LINK OPTIONS</b>	Blank	=	No Ground Link
	1	=	Pin 1 to Chassis to mating connector shell
	2	=	Mating connector shell to Chassis, Pin 1 separate ground.
	3	=	Pin 1 to Chassis
<b>CONTACT PLATING</b>	AU	=	Gold Plated Contacts
	AG	=	Silver Plated Contacts (Non-Standard)
<b>PACKAGING</b>	B	=	Bulk Packed

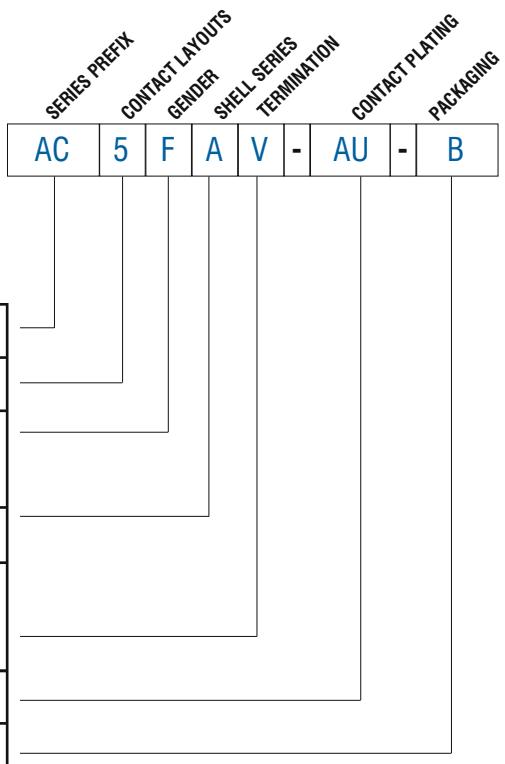


## PART NUMBER BREAKDOWN

AC SERIES A TYPE MALE AND FEMALE - 5 CONTACT

E. G. **AC5FAV-AU-B**

**AC** (series prefix), **5** contacts, **F**emale, **A** Type, **V**erical Printed Circuit Board, **AU** (Gold Plated Contacts) - **B**ulk Packaged.



<b>SERIES PREFIX</b>	AC	<b>≡</b>	Series Prefix
<b>CONTACT LAYOUT</b>	5	<b>≡</b>	5 Contacts only
<b>GENDER</b>	F	<b>≡</b>	Female Socket Contacts
	M	<b>≡</b>	Male Pin Contacts
<b>SHELL SERIES</b>	A	<b>≡</b>	A Type
<b>TERMINATION</b>	H	<b>≡</b>	Horizontal Printed Circuit Board
	V	<b>≡</b>	Vertical Printed Circuit Board
<b>CONTACT PLATING</b>	AU	<b>≡</b>	Gold Plated Contacts
<b>PACKAGING</b>	B	<b>≡</b>	Bulk Packed



## STANDARD DATA AC SERIES A AND B TYPE CHASSIS

		VALUE	
GENERAL CHARACTERISTICS	Number of contacts	3	5
	Contact Arrangements (Front view of pin insert)		
	Termination	Printed Circuit Board (PCB)	
	Flammability rating of plastics	UL94V-0	UL94HB
	Environmental	Complies with RoHS Directive 2002/95/EC	
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V <sup>1)</sup>	
	Test Voltage AC RMS	1500V	
	Current carrying capacity	6A	3A
	Typical Contact Resistance	$\leq 5\text{m}\Omega$	
	Insulation Resistance (initial)	$\geq 2\text{G}\Omega$	
	Insulation Resistance (after damp heat test)	$\geq 1\text{G}\Omega$	
CLIMATIC CHARACTERISTICS	Protection Class	IP40	
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)	
MECHANICAL CHARACTERISTICS	Weight <sup>2)</sup>	14g (0.030lb)	
	Retention Spring separating force	$\geq 20\text{N}$	
	Mounting Hole torque max.	1.5Nm	
	Mechanical Operations	1500 mating cycles	
	Fastening A Type Connectors <sup>3)</sup>	Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration	
	Fastening B Type Connectors <sup>3)</sup>	Self-Tapping screw M2.5	
MATERIALS	Connector Flange - B-Type	Diecast Zinc Alloy	
	Flange Finish - B-Type	Nickel or Black	
	Insulators	PA6.6 + 25% glass fibre reinforced, UL94V-0	UL94HB
	Male Contact Material	Brass	
	Male Contact Plating	$0.0762\mu\text{m}$ (3 $\mu$ ) gold over $0.762\mu\text{m}$ (30 $\mu$ ) nickel	
	Female Contact Material	Bronze	
	Female Contact Plating	$0.0762\mu\text{m}$ (3 $\mu$ ) gold over $0.762\mu\text{m}$ (30 $\mu$ ) nickel	
	Latch lock and Spring	Spring Steel	
	Ground element	Spring Steel	

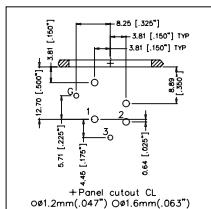
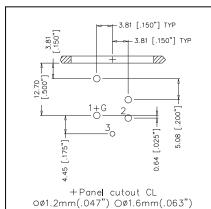
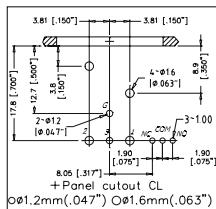
<sup>1)</sup> Not suitable for domestic applications above 50V

<sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

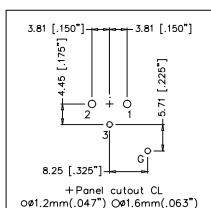
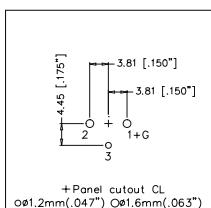
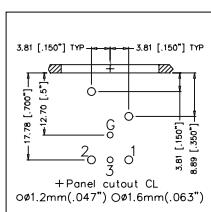
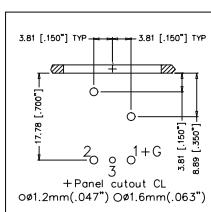
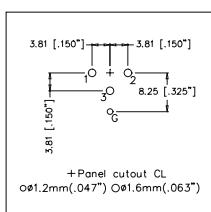
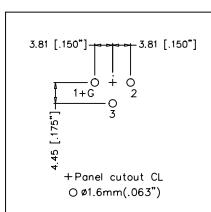
<sup>3)</sup> Refer to page 132



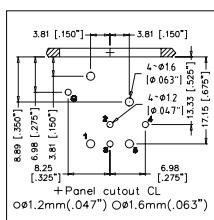
## AC SERIES A AND B TYPE CHASSIS PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB


 AC3FAH2  
AC3FBH2  
AC3FBHB2

 AC3FAH1  
AC3FAH3  
AC3FBH1  
AC3FBHB1  
AC3FBH3


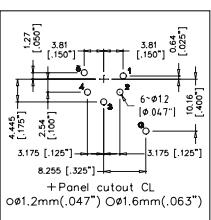
AC3MAH4SWB


 AC3FAV2  
AC3FBV2  
AC3FBVB2

 AC3FAV1  
AC3FAV3  
AC3FBV1  
AC3FBV1  
AC3FBV3

 AC3MAH2  
AC3MAH4  
AC3MBH2  
AC3MBHB2

 AC3MAH1  
AC3MAH3  
AC3MBH1  
AC3MBH1  
AC3MBH3  
AC3MBHB3

 AC3MAV2  
AC3MAV4  
AC3MBV2  
AC3MBVB2

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AC3MBVB3

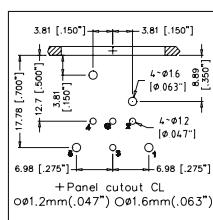
## AC SERIES 5 PIN PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



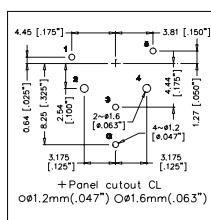
AC5FAH



AC5FAV



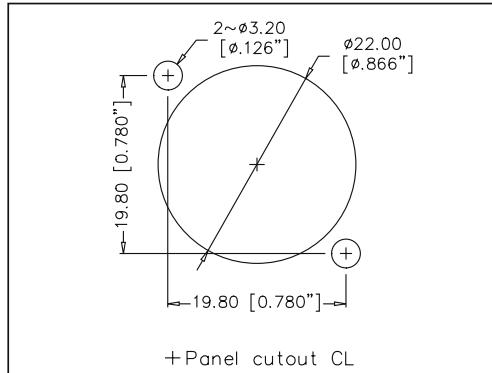
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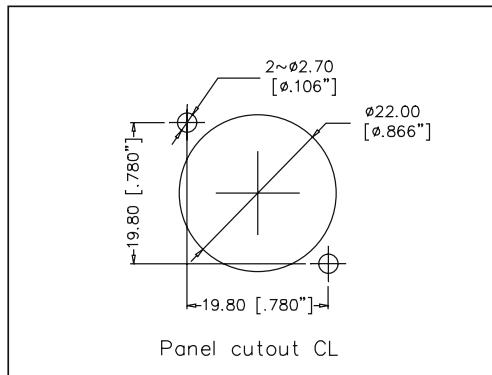
AC5MAV

## AC SERIES A AND B TYPE CHASSIS PANEL CUTOUT DIMENSIONS - FRONT VIEW

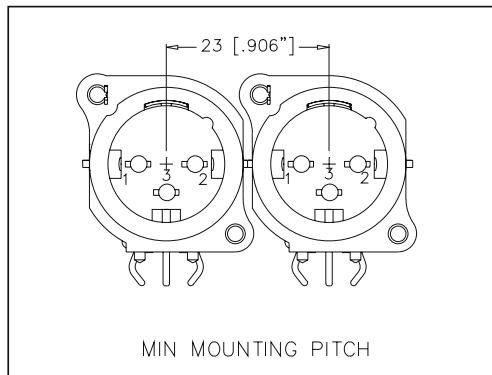
**A TYPE**



**B TYPE**

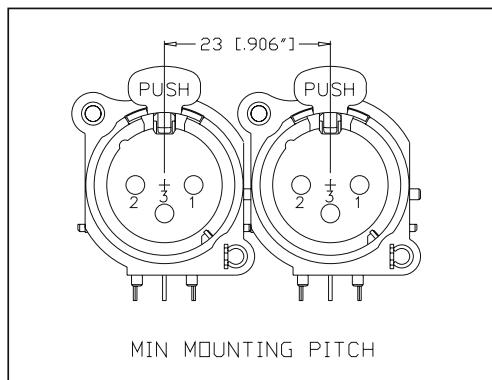


**A AND B TYPE MALE  
MOUNTING PITCH**



MIN MOUNTING PITCH

**A AND B TYPE FEMALE  
MOUNTING PITCH**



MIN MOUNTING PITCH