## **AX Series XLR Cable Connectors**



## AX SERIES XLR CABLE CONNECTORS

The revolutionary AX series of XLR connectors introduce an exciting contemporary look and feel to the professional audio interconnect market. They are designed to complement modern audio architecture and truly "fit" within their environment. An impressive list of features guarantees pure sound performance in the most demanding applications providing unrivalled value.

## **Features**

- Unique Australian designed shell and housing.
- One piece ground / latch spring design incorporating twin wipe contacts for a direct connection path from mating shell to ground providing enhanced connection and EMI performance.
- Ergonomic sleeve design for improved grip.
- Channel I.D capability with coloured sleeves.
- Oversized ergonomic latch for quick and easy mating.
- Leading first mate last break pin 1 on socket connectors.
- Chuck style cable clamp to suit 3mm 8mm (0.118" - 0.314") cable 0.D. with integrated split to allow inclusion after soldering.
- Concealed latching point for improved aesthetics, sealing and strength.
- Overmolded boot with flex bend relief for improved aesthetics, cable protection and boot retention.
- Concentric socket contact design provides optimal contact resistance
- · Precision machined pin contacts as standard.
- Compact solder buckets to reduce termination time and material wastage during the soldering process.
- Zinc diecast shell housing for robustness and wear with Satin nickel or Black finish.
- Available in 3,4 and 5 contact arrangements.

## **Options**

- · Coloured I.D sleeves.
- · Satin nickel or Black shell finish.
- · Single or Bulk packaging.
- Gold plated contacts.

## **Ordering Codes**

We have listed the more common ordering codes in each section. For further options please refer to the part number breakdown charts. Please contact us if you need any further assistance.

## Simple steps to guide you in using this catalogue

- Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.

## **AX Series XLR Cable Connectors**



- Unique Australian designed shell and housing.
- · Ergonomic stylish sleeve design for improved grip.
- Oversized latch lever preserves your thumb.
- Leading first mate last break pin 1 on socket connectors.
- Chuck style cable clamp to suit 3mm 8mm (0.118" 0.314") cable O.D. with integrated split to allow inclusion after soldering.
- Overmolded cable support boot.
- New socket contact design for improved contact resistance.
- Precision machined pin contacts as standard.
- Compact solder buckets to reduce soldering time and wastage.
- Zinc diecast shell housing with Satin nickel or Matt black finish.
- · Available in 3,4 and 5 contact arrangements.

## **Options:**

- · Coloured I.D sleeves.
- Satin nickel or Matt black shell finish.
- · Single or Bulk packaging.

Part Number Breakdown: Page 5

**Specifications: Page 8** 

Assembly Instructions: Page 6 & 7

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	71-74[2.002.30]		XLR 3 pole male Machined contacts Nickel Finish	Standard	AX3M
	Amphenol			Bulk Pack	AX3M BULK
		.71 - 74 [2.80-2.90"]———	XLR 3 pole male Machined contacts	Standard	AX3MB
	Ø19 [0.7447]		Black Finish	Gold Plated Contacts	AX3MB-AU
3	Ø19			Bulk Pack	AX3MB BULK
	71 - 74 [2.80-2.90"]		XLR 3 pole female Stamped contacts Nickel Finish	Standard	AX3F
				Bulk Pack	AX3F BULK
	57 59 -⊸ 71 - 74 [2.80-2.90"] ->-		XLR 3 pole female	Standard	AX3FB
	71		Stamped contacts Black Finish	Gold Plated Contacts	AX3FB-AU
				Bulk Pack	AX3FB BULK
	71 - 74 [2.80-2.90"]		XLR 4 pole male Machined contacts Nickel Finish	Standard	AX4M
				Bulk Pack	AX4M BULK

<sup>\*</sup>PI538 is available for download at www.amphenolaudio.com

## **AX Series XLR Cable Connectors**

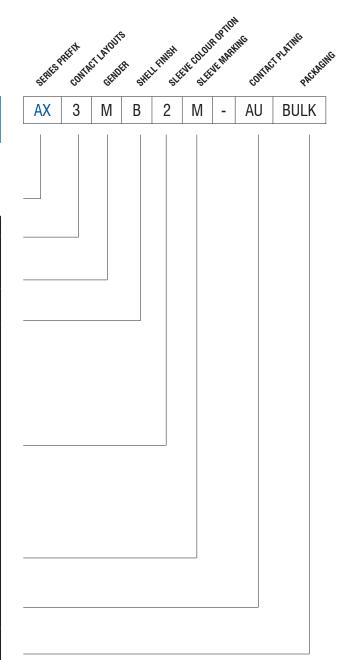
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	71 - 74 [2.80-2.90"]		XLR 4 pole male Machined contacts	Standard	AX4MB
STOR	019 [0.744]		Black Finish	Gold Plated Contacts	AX4MB-AU
	510	Amphanol		Bulk Pack	AX4MB BULK
	Ø15.7 [0.618"]	71 - 74 [2.80-2.90"]	XLR 4 pole female Machined contacts Nickel Finish	Standard	AX4F
				Bulk Pack	AX4F BULK
	[181] [18]	71 - 74 [2.80-2.90"]□	XLR 4 pole female Machined contacts	Standard	AX4FB
60	Ø15.7 [0.6187]		Black Finish	Gold Plated Contacts	AX4FB-AU
				Bulk Pack	AX4FB BULK
	Ø19 [0.744°]	71 - 74 [2.80-2.90"]		Standard	AX5M
	Amphenol			Bulk Pack	AX5M BULK
	~		XLR 5 pole male	Standard	AX5MB
SI	## 10.744"]	Machined contacts Black Finish	Gold Plated Contacts	AX5MB-AU	
	overadawy			Bulk Pack	AX5MB BULK
	Ø15.7 [0.618 <sup>-</sup> ]	71 - 74 [2.80-2.90"]		Standard	AX5F
				Bulk Pack	AX5F BULK
	50 71.74 [2 00.2 00/1]	XLR 5 pole female Machined contacts	Standard	AX5FB	
	5.7 [0.6]	71 - 74 [2.80-2.90"]		Gold Plated Contacts	AX5FB-AU
				Bulk Pack	AX5FB BULK

## PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

E. G . AX3MB2M-AU BULK
AX (Series Prefix), 3 contacts, Male, Black Finish,
2 (Red Sleeve) M (Sleeve Marking) - AU (Gold Plated Contacts), Bulk Packaged.

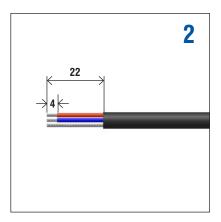
SERIES PREFIX	AX	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL FINISH	Blank	=	Nickel Plated Finish
	В	=	Black Finish
SLEEVE COLOUR	Blank	=	Black
OPTION	1	=	Brown
	2	=	Red
	3	=	Orange
	4	=	Yellow
	5	=	Green
	6	=	Blue
	7	=	Violet
	8	=	Grey
	9	=	White
SLEEVE MARKING	Blank	=	Standard Sleeve
	0M	=	Marking Sleeve (Black)
	M	=	Marking Sleeve (Colour)
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin) (Refer to Standard Data)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed



## **AX Series XLR Cable Connectors**



Slide the nut (Backshell) onto the cable



Strip the cable



Push back the insert only enough to expose the solder buckets. It is not necessary to remove the insert. Solder the wires to the contacts.



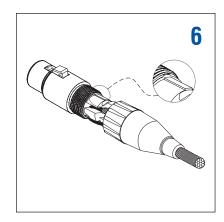
Install the cable clamp, flush to the insert making sure to align the top slot with the spring. Then push the insert & cable clamp together into the shell.



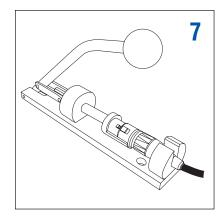
Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

## PI539 ASSEMBLY INSTRUCTIONS

AX SERIES FEMALE XLR CABLE CONNECTOR



Close the cable clamp slightly and push the boot over the clamp ensuring the wires fit inside the boot.

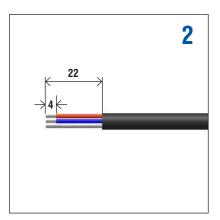


Final assembly can be achieved either by manually screwing the boot on, or by using an Amphenol Australia T2860 termination tool.

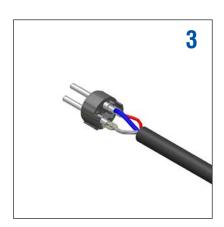
## **AX Series XLR Cable Connectors**



Slide the nut (Backshell) onto the cable



Strip the cable



Solder the wires to the contacts.



Install the cable clamp flush to the insert making sure to align the slot with the ground contact.



Align the key of the insert with the keyway on the shell then push the pin insert & cable clamp together in the shell.

## PI538 ASSEMBLY INSTRUCTIONS

AX SERIES MALE XLR CABLE CONNECTOR



Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

## STANDARD DATA AX SERIES CABLE CONNECTORS

			VALUE			
GENERAL	Number of contacts	3	4	5		
CHARACTERISTICS	AX Series Contact Arrangements (Front view of pin inserts)		(1 4 6 2 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	2 3 4		
	Termination		SOLDER			
	Max. Wire Gauge - Stranded wire: Solder	14AWG	16AWG	18AWG		
	Flammability rating of insulator plastics and housings		UL94V-0			
	Environmental	Complie	es with EU RoHS 2 Directive 201	1/65/EU		
ELECTRICAL CHARACTERISTICS	Service Voltage RMS		133V 1)			
CHARACTERISTICS	Test Voltage AC RMS		1400V			
	Current carrying capacity: Solder	15A	10A	7.5A		
	Typicial Contact Resistance	≤3m Ω				
	Insulation Resistance		≥1G Ω			
CLIMATIC CHARACTERISTICS	Protection Class	IP40				
CHANACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to -167°F)				
MECHANICAL	Insertion and Withdrawal force	≥10N - ≤30N				
CHARACTERISTICS	Weight 2)	31g (0.068lb)	33g (0.073lb)	33g (0.073lb)		
	Typical Cable retention force	22Kg to 44Kg (50lb t	to 100lb) - Dependent on cable i	material and diameter.		
	Cable O.D. range		3mm to 8mm (0.118" to 0.314"	')		
	Mechanical Operations	1000 mating cycles				
MATERIALS	Connector shell - Metal Shell finish		Diecast Zinc Alloy Satin nickel or Black			
	Insulators		UL94V-0 PA66, 30% Glass Fille	d		
	Boot / Backshell Finish		JL94V-0 Noryl N190 / Santoprer , other colours available - see pa			
	Cable clamp	Noryl N190				
	Sleeve		Noryl N190			
	Male Contact Machined - Solder / Plating		Brass / Silver or Gold (Optional)	)		
	Female Contact Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)				

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

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



## AC SERIES XLR CABLE CONNECTORS

Amphenol Australia have been manufacturing and designing innovative XLR connectors since 1955 The AC series cable connector range complies with IEC268-12 and AES 14-1992 standards.
CSA File Number 68598.

## **Features**

- AC series XLR connectors feature the unique Australian design and patented "Jaws" cable retention system
- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- The "Jaws" cable retention system provides up to 44kg (100lb) of strain.
- The AC series connector can be quickly and easily assembled without screws – by hand or portable termination tool. (Part number T2860)
- Available in 3, 4, 5, 6A and 7 contact arrangements.
- · Compatible with all major XLR brands.

## **Options**

- Solder Bucket termination
- · Thermoplastic shell
- · Zinc Diecast shell Satin Nickel Finish
- Zinc Diecast shell Black Polyester Finish
- · Gold, Silver or Tin Plated contacts
- · Bulk Style Packaging
- Single Bag packs
- Precision machined contacts
- Cost effective stamped contacts on 3 pole
- Standard Jaws cable clamp, Cable O.D 3mm to 6.5mm (0.118" to 0.255")
- Large Jaws cable clamp, Cable O.D 6.5mm to 8mm (0.255" to 0.314")
- Metal Boots / Backshells

www.amphenolaudio.com

- Coloured Boots / Backshells
- · Coloured Identification rings
- Termination / Assembly tooling

## **Jaws Cable Clamp Options**



Standard Jaws cable clamp (Black), Cable O.D 3mm to 6.5mm (0.118" to 0.255")



Large Jaws cable clamp (Purple), Cable 0.D 6.5mm to 8mm (0.255" to 0.314")

## **Ordering Codes**

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## **AC Series XLR Cable Connectors**



## Features:

- · Zinc Diecast Shell.
- Solder Bucket connections.
- "Jaws" Cable Retention System.
  Contact layouts in 3, 4, 5, 6A and 7.
- · Precision machined or Stamped contacts.
- Leading first mate last break socket contact.
   Quick and easy assembly without screws by hand or portable termination tool. (Part number T2860.)

**Options:** Stamped Contacts (3 contact only), Gold plated contacts, Large or Small Jaws Cable Clamp, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells

Part Number Breakdown: Page 13

**Specifications: Page 15** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	82.0 [3.228*]		XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC3MM
8	Ø19.0 [0.748*]		Jaws cable clamp	Bulk Pack	AC3MM BULK
	₩	—82.0 [3.228″]——□	XLR 3 pole male, Machined contacts,	Standard	AC3MMB
	Ø19.0 [0.748*]		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MMB-AU
	X			Bulk Pack	AC3MMB BULK
	82.0 [3.228"] Ø19.0 [0.748"]	XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3M	
		NAME OF THE PERSON OF THE PERS	Jaws Cable Claffip	Large Cable Clamp	AC3MJ
				Bulk Pack	AC3M BULK
	82.0 [3.228"] Ø19.0 [0.748"]	XLR 3 pole male, Stamped contacts,	Standard	AC3MB	
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MB-AU
			Jawa Cabic Clamp	Large Cable Clamp	AC3MBJ
				Bulk Pack	AC3MB BULK
	82.0 [3.228"]	XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3F	
	Ø19.0 [.748"]		Jaws Cable Claffip	Large Cable Clamp	AC3FJ
	<u> </u>			Bulk Pack	AC3F BULK
	<b> </b>	—82.0 [3.228″]——⊶	XLR 3 pole female, Stamped contacts,	Standard	AC3FB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3FB-AU
	Ø19.0 [.748"]	Ø19.0 [.748"]	Carro Gabio Giarrip	Large Cable Clamp	AC3FBJ
	1 4			Bulk Pack	AC3FB BULK

## **AC Series XLR Cable Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	82.0 [3.228*]		XLR 4 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4M
	ø1 <sup>9</sup> .0 [0.748*]		Jaws Cable Claffip	Large Cable Clamp	AC4MJ
	<u> </u>			Bulk Pack	AC4M BULK
	1-	—82.0 [3.228″] <del></del>	XLR 4 pole male, Machined contacts,	Standard	AC4MB
	<u> </u>		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4MB-AU
	ø19.0 [0.748″]		Jaws Cable Clamp	Large Cable Clamp	AC4MBJ
	<u>V</u>			Bulk Pack	AC4MB BULK
		—82.0 [3.228*]———————————————————————————————————	XLR 4 pole female, Machined contacts, Nickel Finish,	Standard	AC4F
	ø19.0 [.748"]		Jaws cable clamp	Large Cable Clamp	AC4FJ
				Bulk Pack	AC4F BULK
	82.0 [ Ø19.0 [.748*]	—82.0 [3.228″]—— <del></del>	XLR 4 pole female, Machined contacts,	Standard	AC4FB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4FB-AU
				Large Cable Clamp	AC4FBJ
25				Bulk Pack	AC4FB BULK
	82.0 [3.228"] Ø19.0 [0.748"]	XLR 5 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5M	
			Jaws Cable Clamp	Large Cable Clamp	AC5MJ
				Bulk Pack	AC5M BULK
	h-	—82.0 [3.228″]—— <del>□</del>	XLR 5 pole male,	Standard	AC5MB
			Machined contacts, Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5MB-AU
	ø19.0 [0.748″] 0		Jaws Cable Clamp	Large Cable Clamp	AC5MBJ
	<u> </u>			Bulk Pack	AC5MB BULK
		—82.0 [3.228*]———————————————————————————————————	XLR 5 pole female, Machined contacts, Nickel Finish,	Standard	AC5F
	ø19.0 [.748"]		Jaws cable clamp	Large Cable Clamp	AC5FJ
				Bulk Pack	AC5F BULK
	la .	—821 [3228#1——⇒	XLR 5 pole female, Machined contacts,	Standard	AC5FB
	82.0 [3.228"]		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5FB-AU
	ø19.0 [.748"]		Jaws Cable Clamp	Large Cable Clamp	AC5FBJ
				Bulk Pack	AC5FB BULK

## **AC Series XLR Cable Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	82.0 [3.228*]		XLR 6A pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AM
	ø19.0 [0.748″]		daws dasis diamp	Large Cable Clamp	AC6AMJ
	<u> </u>			Bulk Pack	AC6AM BULK
	5	—82.0 [3.228″]——⊶	XLR 6A pole male, Machined contacts,	Standard	AC6AMB
	Ā (	02.0 [3.220]	Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AMB-AU
	ø19.0 [0.748″] 0		Jawa Cabic Glamp	Large Cable Clamp	AC6AMBJ
	<u>V</u> (			Bulk Pack	AC6AMB BULK
		—82.0 [3.228*]—— <del>——————————————————————————————————</del>	XLR 6A pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AF
	Ø19.0 [.748″]		Jaws cable claimp	Large Cable Clamp	AC6AFJ
	<u> </u>			Bulk Pack	AC6AF BULK
	82.0 [3 ø19.0 [.748*]	-82.0 [3.228″]	XLR 6A pole female, Machined contacts,	Standard	AC6AFB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AFB-AU
			oaws cable damp	Large Cable Clamp	AC6AFBJ
				Bulk Pack	AC6AFB BULK
	82.0 [3.228*] ø19.0 [0.748*]	—82.0 [3.228*]	XLR 7 pole male, Gold plated Machined contacts, Nickel Finish,	Standard	AC7M
		TO THE STATE OF TH	Jaws cable clamp	Large Cable Clamp	AC7MJ
	<u> </u>			Bulk Pack	AC7M BULK
	82.	—82.0 [3.228*]————	XLR 7 pole male, Gold plated Machined contacts,	Standard	AC7MB
	ø19.0 [0.748″]	TO THE STATE OF TH	Black Finish, Jaws cable clamp	Large Cable Clamp	AC7MBJ
	10.748 ]			Bulk Pack	AC7MB BULK
			XLR 7 pole female,	Standard	AC7F
		—82.0 [3.228*]—— <del>—</del>	Gold plated Machined contacts,		
	ø19.0 [.748"]		Nickel Finish, Jaws cable clamp	Large Cable Clamp	AC7FJ
	ý I			Bulk Pack	AC7F BULK
		020 [2000*]	XLR 7 pole female,	Standard	AC7FB
	82.0 [3.228"]		Gold plated Machined contacts,		
	Ø19.0 [.748"]	Black Finish, Jaws cable clamp	Large Cable Clamp	AC7FBJ	
T. C.	<u> </u>	(3)		Bulk Pack	AC7FB BULK

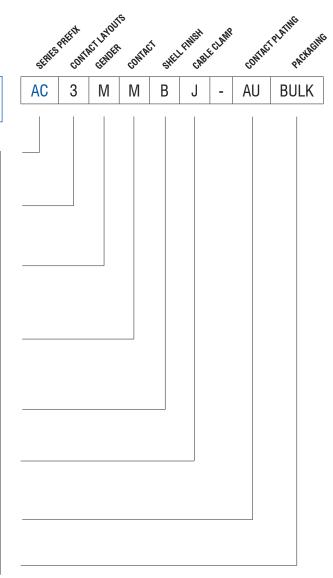
## PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

E. G. AC3MMBJ-AU BULK

AC (Series Prefix), 3 contacts, Male, Machined Contacts, Black Polyester Finish, J (Large Jaws),- AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
	7	=	7 Contacts
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
CONTACT <sup>1</sup>	Blank	=	Stamped Contacts
	M	=	Machined Contacts
	G	=	Stamped Contacts, Ground Tag
	MG	=	Machined Contacts, Ground Tag
			(Applicable 3 male pin contacts, option M & MG only)
SHELL FINISH <sup>2</sup>	Blank	=	Nickel Plated Finish
	В	=	Black Polyester Finish
CABLE CLAMP	Blank	=	Standard Jaws 3mm - 6.5mm
			cable O.D. (0.118" to 0.255")
	J	=	Large Jaws 6.5mm - 8mm cable 0.D. (0.255" to 0.314")
CONTACT PLATING <sup>3</sup>	Blank		Standard Plating (Silver or Tin)
CONTACT PLATING	ומווג	_	(Refer to Standard Data)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags



## Note:

<sup>&</sup>lt;sup>1</sup>4 - 7 contact connectors have machined contacts and grounding as standard.

 $<sup>^{\</sup>rm 2}$  Ground contacts are not supplied with the black polyester finish shell option.

 $<sup>^{\</sup>rm 3}$  7 Contact is gold plated as standard.

<sup>&</sup>lt;sup>4</sup> All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 136 and simply add colour to end of part number. Example: AC3MM - RED

## **AC Series XLR Cable Connectors**



## Features:

- · Thermoplastic Shell.
- Solder Bucket Connections.
- "Jaws" Cable Retention System.
- Stamped or Machined Contacts.
- Leading first mate last break socket contact.
- Quick and easy assembly without screws by hand or portable termination tool. (Part number T2860.)

**Options:** Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells 3, 4, 5, 6A and 7 Contacts.

**Specifications: Page 15** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	Ø19.0 [0.748"]	82.0 [3.228"]	XLR 3 pole male, Machined contacts, Thermoplastic shell, Jaws cable clamp	Standard  Bulk Pack	AC3MMCP BULK
	Ø19.0 [0.748"]	82.0 [3.228*]	XLR 3 pole male, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard  Bulk Pack	AC3MCP BULK
	Ø19.0 [0.748"]	82.0 [3.228*]	XLR 3 pole female, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard  Bulk Pack	AC3FCP BULK

Note: Thermoplastic shell connectors are also available in 4 - 7 contact arrangements, please contact us for ordering code.

## STANDARD DATA AC CABLE CONNECTORS

					VALUE		
GENERAL	Number of contacts		3	4	5	6A	7
CHARACTERISTICS	AC Series Contact A (Front view of pin in			(a) 4 (a) 3	1 5 6 6 3 4 6	0 6 5 2 3 4	1 7 6 2 4 5 3 4
	Termination				SOLDER		
	Max. Wire Gauge - S	Stranded wire: Solder	14AWG	16AWG	18/	AWG	20AWG
	Flammability rating (insu	ator plastics & housings)			UL94V-0		
	Environmental			Complies with	EU RoHS 2 Directi	ve 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Service Voltage RM	S			133V <sup>1</sup>		
CHANACIENISTICS	Test Voltage AC RM	S			1400V		
	Current carrying ca	pacity: Solder	15A	10A	7.	5A	5A
	Typical Contact Res	istance			≤3mΩ		
	Insulation Resistant	e			≥1GΩ		
CLIMATIC Characteristics	Protection Class				IP40		
UIMIMUILIIUIIUU	Operating Temperat	ure		-25°C to	+75°C (-13°F to	+167°F)	
MECHANICAL Characteristics	Insertion and Withdrawal force		≥10N - ≤30N				
OTALIA OTELII OTI O	Weight - Metal <sup>2</sup>		36g (0.080lb)	37g (0.081lb)	38g (0.083lb)		
	Weight - Thermopla	stic <sup>2</sup>	18g 19g 20g (0.039lb) (0.041lb) (0.044lb)				
	Typical Cable retent	ion force	22Kg to	44Kg (50lb to 100l	b) - Dependent on	cable material and	diameter.
	Cable O.D. range - JAWS clamp	Standard Large			6.5mm (0.118" to to 8mm ( 0.255" to		
	Mechanical Operation	ons			1000 mating cycle	S	
MATERIALS	Connector shell - M Shell finish	etal	Diecast Zinc Alloy Satin nickel or Bla				
	Connector shell - TI Shell finish	nermoplastic	Thermoplastic, U Black	L94V-0 Modified P	PE Resin		
	Insulators		UL94V-0 PBT Re	sin or Modified PPE	Resin		
	Boot / Backshell		UL94V-0 Modifie	d PPE Resin or Ma	chined Brass		
	Finish		Black, other colours available - see page 136				
	Cable clamp (JAWS)	Standard Solder Large Solder	UL94V-0 Modified PPO Resin (Black) UL94V-0 Modified PPO Resin (Purple)				
	Cable Bushing	•	Santoprene				
	Male Contact (Solder / Plating)	Stamped Machined	Phosphor Bronze Brass / Silver or (	/ Silver or Gold (O Gold (Optional)	ptional)		
	Female Contact (Solder / Plating)	Stamped Machined	Phosphor Bronze / Tin or Gold (Optional) Brass / Silver or Gold (Optional)				

<sup>&</sup>lt;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.

## AC/AX Series XLR Metal Chassis Mount Connectors



# AC/AX SERIES XLR METAL CHASSIS MOUNT CONNECTORS

The metal chassis mount connectors are designed for the audio user where durability, reliability and strength across a wide range of applications are important. All products are manufactured to the highest quality standards and will withstand the harshest environments. This range complies with IEC268-12 and AES 14-1992 standards. CSA File Number 68598

## **Features**

- The "D" size housing can be either front or rear mounted using the same panel cutout.
- The "P" size housing is the original wide flange front mounting XLR connector. "PN" is the original narrow flange front mounting male connector.
- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- · Solder cup or Vertical PCB versions.
- Connectors are fitted with a grounding system for RFI shielding applications.
- Available in 3, 4, 5, 6A and 7 contact arrangements.
- · Compatible with all other XLR brands.

## **Options**

- Solder Bucket termination
- Vertical PCB contacts
- · Zinc Diecast Shell Satin Nickel Finish
- · Zinc Diecast Shell Black Polyester Finish
- · Gold, Silver or Tin Plated Contacts
- · Bulk Packaging
- Single Bag packs
- Precision machined contacts
- Cost effective stamped contacts on 3 pole
- Latchless versions (Non-Latching) (Female only)

**Note:** A ground tag is standard on all AC "Z" series connectors. Although the ground tag is intended for RFI shielding applications, Amphenol cannot guarantee its effectiveness in all cases.

The non-conductive Black polyester finish insulates the ground tag from the shell and should not be used in applications requiring ground contact to the shell.

## **Ordering Codes**

We have listed the more common ordering codes in each section. For further options please refer to the part number breakdown charts. Please contact us if you need any further assistance.

## Simple steps to guide you in using this catalogue

- 1) Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.

## **AC/AX Series XLR Metal Chassis Mount Connectors**



## Features:

- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
- · Vertical PCB mounting.
- Precision machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- · Positive latch lock system.
- M3 threaded holes (Optional).

**Options:** Stamped contacts (3 contact only), Gold plated contacts, Vertical PCB contacts, Black finish, Non-Latching (Female only), Bulk Pack.

Part Number Breakdown: Page 20

**Specifications: Page 26** 

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
		XLR 3 pole male, D Flange, Machined contacts,	Standard	AX3MD
		Nickel Finish	M3 Threaded Holes	AX3MD-M3
			Vertical PCB	AX3MDV
- sierie	-26.0 [1.024]3.0 [0.118]3.1 [1.222]3.0 [0.118]		M3 Threaded Holes	AX3MDV-M3
	31.0 [1.220]	XLR 3 pole male, D Flange,	Standard	AX3MDB
	Amphend	Machined contacts, Black Finish	M3 Threaded Holes	AX3MDB-M3
	9.5 SOLDER CONTACTS PCB CONTACTS   19.0 [0.748]		Gold Plated Contacts	AX3MDB-AU
27.32			Vertical PCB	AX3MDVB
			M3 Threaded Holes	AX3MDVB-M3
		XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AX3FD
	26.0 [1.024] - 6.3 [0.248] - 30.5 [1.200] - 2.5 [0.098] - 2.5 [0.098]		M3 Threaded Holes	AX3FD-M3
(PUSH)		XLR 3 pole female,	Standard	AX3FDB
	9.5 SOLDER CONTACTS PCB CONTACTS 24.45 [0.963]	D Flange, Stamped contacts, Black Finish	M3 Threaded Holes	AX3FDB-M3
			Gold Plated Contacts	AX3FDB-AU

## **AC/AX Series XLR Metal Chassis Mount Connectors**

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
6		XLR 4 pole male, D Flange, Machined contacts,	Standard  M3 Threaded Holes	AX4MD AX4MD-M3
		Nickel Finish	Vertical PCB	AX4MDV
	-26.0 [1.024]3.0 [0.118] - 31.1 [1.222]3.0 [0.118]		M3 Threaded Holes	AX4MDV-M3
		VI D A colo cools		
	21.0 [1.220] 22.0 [0.945] 21.4 [0.843]	XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	AX4MDB
	9.5 SOLDER CONTACTS PCB CONTACTS 		Gold Plated Contacts	AX4MDB-AU
			Vertical PCB	AX4MDVB
ange!		XLR 4 pole female,	Standard	AX4FD
		D Flange, Machined contacts, Nickel Finish	M3 Threaded Holes	AX4FD-M3
			Vertical PCB	AX4FDV
G	-26.0 [1.024]30.5 [1.200]2.0 [0.079] - 2.5 [0.098]		M3 Threaded Holes	AX4FDV-M3
(euse)	22.9 [0.901]	XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	AX4FDB
	9.5 SOLDER CONTACTS PCB CONTACTS 19.0 [0.374] -28.1 [1.106] -24.50 [0.965]		Gold Plated Contacts	AX4FDB-AU
			Vertical PCB	AX4FDVB
		XLR 5 pole male,	Standard	AX5MD
48/0		D Flange, Machined contacts, Nickel Finish	M3 Threaded Holes	AX5MD-M3
			Vertical PCB	AX5MDV
131.872	-26.0 [1.024]3.0 [0.118] - 31.0 [1.222]3.0 [0.118]3.0 [0.118]		M3 Threaded Holes	AX5MDV-M3
	21.4 [0.843]	XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	AX5MDB
	9.5 SOLDER CONTACTS PCB CONTACTS 24.45 [0.963]		Gold Plated Contacts	AX5MDB-AU
			Vertical PCB	AX5MDVB

## **AC/AX Series XLR Metal Chassis Mount Connectors**

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
(FUET)		XLR 5 pole female, D Flange,	Standard	AX5FD
		Machined contacts, Nickel Finish	M3 Threaded Holes	AX5FD-M3
	70.4 [4407]		Vertical PCB	AX5FDV
A CA	-26.0 [1.024]6.3 [0.248]2.0 [0.079] - 2.5 [0.098]		M3 Threaded Holes	AX5FDV-M3
(PUSH)	22.9 [0.901]	XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	AX4FDB
	9.5 SOLDER CONTACTS PCB CONTACTS 24.50 [0.965]		Gold Plated Contacts	AX4FDB-AU
			Vertical PCB	AX4FDVB
		XLR 6A pole male,	Standard	AX6AMD
		D Flange, Machined contacts, Nickel Finish	M3 Threaded Holes	AX6AMD-M3
			Vertical PCB	AX6AMDV
Art St. St. St.	-26.0 [1.024]3.0 [0.118]3.0 [0.118]3.0 [0.118]		M3 Threaded Holes	AX6AMDV-M3
	21.4 [0.843]	XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	AX6AMDB
	9.5 SOLDER CONTACTS PCB CONTACTS 24.45 [0.963]		Gold Plated Contacts	AX6AMDB-AU
			Vertical PCB	AX6AMDVB
PUSH		XLR 6A pole	Standard	AX6AFD
		female, D Flange, Machined contacts,	M3 Threaded Holes	AX6AFD-M3
		Nickel Finish	Vertical PCB	AX6AFDV
	-26.0 [1.024]6.3 [0.248]30.5 [1.200]2.5 [0.098]		M3 Threaded Holes	AX6AFDV-M3
PUSH	31.0 [1.220] -1.2.0 -1.2.0 -2.4.0 [0.945]- -2.2.9 [0.901]	XLR 6A pole female, D Flange, Machined contacts,	Standard	AX6AFDB
	9.5 SOLDER CONTACTS PCB CONTACTS 24.50 [0.965]	Black Finish	Gold Plated Contacts	AX6FADB-AU
			Vertical PCB	AX6AFDVB

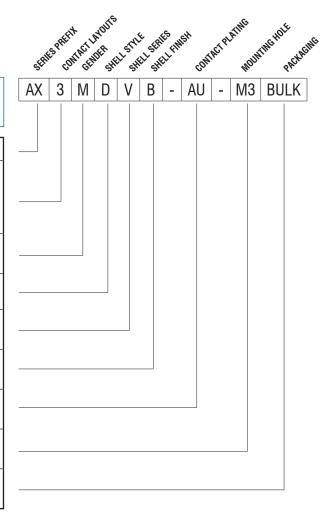
## PART NUMBER BREAKDOWN

## METAL TYPE FLANGE

E. G. AX3MDVB-AU-M3 BULK

AX (Series Prefix), 3 contacts, Male, D Small Flange, Vertical PCB Contact, Black Polyester Finish, - AU (Gold Plated Contacts), - M3 Mounted Holes, BULK Packaged.

SERIES PREFIX	AX	=	Series Prefix
	3	=	3 Contacts 4 Contacts
CONTACT LAYOUTS	5	=	5 Contacts
	6A	=	6 Contacts
GENDER	F	=	Female Socket Contacts
GENDEN	M	=	Male Pin Contacts
SHELL STYLE	D	=	Small Flange (front or rear mounting)
SHELL SERIES	Blank	=	Solder Bucket
STILLE SETTILS	V	=	Vertical PCB Contact
SHELL FINISH <sup>1</sup>	Blank	=	Nickel Plated Finish
OTILLE THRIGH	В	=	Black Polyester Finish
CONTACT PLATING2	Blank	=	Standard Plating
OONIAGI I EAIING	AU	=	Gold Plated
MOUNTING HOLES	Blank	=	Through Holes
INCOMPRING HOLLO	M3	=	M3 Threaded Holes
PACKAGING	Blank	=	Individual Bags
I AURAUNU	BULK	=	Bulk Packed



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<sup>&</sup>lt;sup>1</sup> Ground contacts are not supplied with the black polyester finish shell option.

 $<sup>^{\</sup>rm 3}$  Non-Latching Versions (Female) available - Please contact us for part number options.

## **AC/AX Series XLR Metal Chassis Mount Connectors**



## Features:

- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
  Precision machined or Stamped contacts (3 pin only).
- · Leading first mate last break socket contact.
- Positive latch lock system.

Options: Stamped contacts (3 contact only), Gold plated contacts,

Black finish, Non-Latching (Female only), Bulk Pack.

Part Number Breakdown: Page 25

**Specifications: Page 26** PCB Footprints: Page 27 Panel Cutouts: Page 27

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	19.0	<del>  </del> 2.7 [.106"]	XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC3MMDZ
The state of the s	24.0 [ 945"] 11.220"]			Bulk Pack	AC3MMDZ BULK
(O)	AMPHENOL	SOLDER CONTACTS  5.5 [.217"]	XLR 3 pole male, D Flange, Machined contacts, Black Finish	Standard	AC3MMDZB
CO.	l⇒ 26.0 [1.024"]-∍l		Didok ( IIII o II	Gold Plated Contacts	AC3MMDZB-AU
P.	19.0	<del>-&gt;  →</del> 2.7 [.106"]	XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	AC3MDZ
	19.0 [.248,.] — [.24.0 [.945]] — [.31.0 [.1.220]]			Bulk Pack	AC3MDZ BULK
Ö	31.0 [	SOLDER CONTACTS  5.5 [.217"]	XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Standard	AC3MDZB
0.	l⇒ 26.0 [1.024"] →	32.1 [1.263"]——	DIACK FIIIISII	Gold Plated Contacts	AC3MDZB-AU
South	+- 26.0 [1.024"]-+	6.5 [.256"]	XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC3FDZ
	PUSH   1,275		INICKELLIIISH	Bulk Pack	AC3FDZ BULK
0 113	19.0 24.0 [.]	SOLDER CONTACTS 5.5 [.217"]	XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	AC3FDZB
[,748"]	33.5 [1.319"]	DIGUN I IIIIOII	Gold Plated Contacts	AC3FDZB-AU	

## **AC/AX Series XLR Metal Chassis Mount Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	19.0 [.748"]————————————————————————————————————	2.7 [.106"]	XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard  Bulk Pack	AC4MDZ BULK
	26.0 [1.024"]	SOLDER CONTACTS 5.5 [.217"] 32.1 [1.263"]	XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard  Gold Plated Contacts	AC4MDZB  AC4MDZB-AU
	PUSH   1,024"   1,024	6.5 [.256"]	XLR 4 pole female, D Flange, Machined contacts, Nickel Finish	Standard  Bulk Pack	AC4FDZ BULK
	19.0 - 24.0 [.448,]	SOLDER CONTACTS	XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard  Gold Plated Contacts	AC4FDZB AC4FDZB-AU
	19.0 19.0	2.7 [.106"]	XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard  Bulk Pack	AC5MDZ AC5MDZ BULK
	2 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	solder contacts	XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard  Gold Plated Contacts	AC5MDZB AC5MDZB-AU
	24.0 [1.024] - 24.0 [1.202] 0.95	6.5 [.256"]	XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard  Bulk Pack	AC5FDZ AC5FDZ BULK
	19.0 [.748"]	SOLDER CONTACTS  31.1 [1.224"]——	XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard  Gold Plated Contacts	AC5FDZB AC5FDZB-AU

## **AC/AX Series XLR Metal Chassis Mount Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	19.0 [~- [.748"] -~	<del>  </del>	XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC6AMDZ
	224.0 [.945"]== 31.0 [1.220"]			Bulk Pack	AC6AMDZ BULK
9		SOLDER CONTACTS5.5 [.217"]	XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	AC6AMDZB
	ام- 26.0 [1.024"] -ما		Buokimian	Gold Plated Contacts	AC6AMDZB-AU
at an	p26.0 [1.024"]-∽	6.5 [.256"]	XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC6AFDZ
	24.0 [.945°] <b>HSnd</b>			Bulk Pack	AC6AFDZ BULK
C FEE	######################################	SOLDER CONTACTS	XLR 6A pole female, D Flange, Machined contacts, Black Finish	Standard	AC6AFDZB
	19.0 [.748"]-5	31.1 [1.224"]——		Gold Plated Contacts	AC6AFDZB-AU
			XLR 7 pole male, D Flange,	Standard	AC7MDZ
	19.0 	06"] <del>   </del> 5.5 [.217"]	Gold Plated Machined contacts, Nickel Finish	Vertical PCB	AC7MDZV
BIRTH IN	220.]-[-]			Bulk Pack	AC7MDZ BULK
9/5	SOLDER		XLR 7 pole male, D Flange, Gold Plated Machined contacts,	Standard	AC7MDZB
			Black Finish	Vertical PCB	AC7MDZVB
Beyon			XLR 7 pole female, D Flange,	Standard	AC7FDZ
	p-26.0 [1.024*]-q p-4.5 [.2	56"] <del></del>	Gold Plated Machined contacts, Nickel Finish	Vertical PCB	AC7FDZV
	24.0 [.945] + HSN4 31.0 [1.2207] -			Bulk Pack	AC7FDZ BULK
6		PCB CONTACTS  PCB CONTACTS	XLR 7 pole female, D Flange, Gold Plated Machined contacts,	Standard	AC7FDZB
			Black Finish	Vertical PCB	AC7FDZVB

## **AC/AX Series XLR Metal Chassis Mount Connectors**



## Features:

- Zinc Diecast shell.
- The P size housing is the original wide flange front mounting XLR connector. PN is the original narrow, front mounting male connector.
- Solder Bucket connections.
- Precision Machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- · Positive latch lock system.

**Options:** Stamped contacts (3 contact only), Gold plated contacts, Black Finish, Non-Latching (Female only), Bulk Pack.

Part Number Breakdown: Page 20 Specifications: Page 26 PCB Footprints: Page 27 Panel Cutouts: Page 27

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	POLES	PART NUMBER
	(a) 1 (2.2.2 [.874*]a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	SOLDER CONTACTS  32.1 [1.265"]	XLR male, Narrow flange, Machined contacts	3	AC3MMPNZ
		2.4 [.094"]	XLR male, Narrow flange,	3	AC3MPNZ
	⊕		Stamped contacts,	4	AC4MPNZ
	27.2 [1.063 <sup>7</sup> ]			5	AC5MPNZ
0		SOLDER CONTACTS		6	AC6AMPNZ
	-22.2 [.874"]	32.1 [1.265"]——		7	AC7MPNZ
	27.2 [1.070"] ————————————————————————————————————	2.4 [.094"]  SOLDER CONTACTS  31.5 [1.238"]	XLR male, Wide flange, Machined contacts	3	АСЗММР
	27.2 [1.070"]	2.4 [.094"]	XLR male,	3	AC3MP
9	(1.039°]		Wide flange, Stamped contacts	4	AC4MP
	26.4 [1.039]"			5	AC5MP
2	AWPHENOL (1)	SOLDER CONTACTS		6	AC6AMP
l'ann	16.7	32.5 [1.278"]——		7	AC7MP
	27.2 [1.070"]	3.5 [.138"]	XLR female,	3	AC3FPZ
Push	PUSH E		Wide flange, Stamped contacts	4	AC4FPZ
	AMPHENDI SOLDER CONTACTS			5	AC5FPZ
				6	AC6AFPZ
	16.7 [.656"]	2.5 [.098"] 31.0 [1.220"]		7	AC7FPZ

<sup>\*</sup>Black finish available on special request please contact factory.

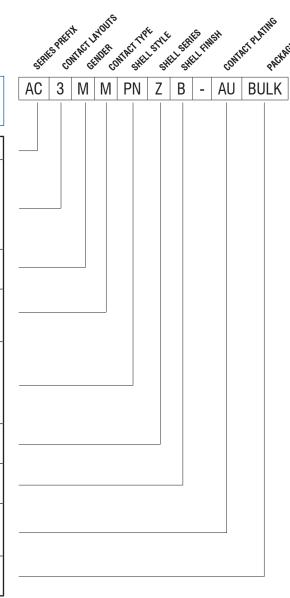
## PART NUMBER BREAKDOWN

## METAL TYPE FLANGE

## E. G. AC3MMPNZVB-AU BULK

AC (Series Prefix), 3 contacts, Male, Machined Contacts, PN (Narrow Flange), Z (Metal Chassis Series), Black Polyester Finish, - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX  AC = Series Prefix  3 = 3 Contacts 4 = 4 Contacts 5 = 5 Contacts 6A = 6 Contacts 7 = 7 Contacts  Machined Contacts M = Machined Contacts M = Machined Contacts (Applicable 3 male pin contacts only)  SHELL STYLE  D = Small Flange (front or rear mounting) PN = Large Shell with Wide Flange PN = Large Shell with Wide Flange PN = Large Shell with Narrow Flange (male only)  SHELL SERIES  SHELL FINISH2  Blank = Nickel Plated Finish Blank = Nickel Plated Finish Blank = Standard Plating (Silver or Tin - refer to Standard Data) AU = Gold Plated  PACKAGING  Blank = Individual Bags BULK = Bulk Packed		,		
CONTACT LAYOUTS  4	SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUTS  5 = 5 Contacts 6A = 6 Contacts 7 = 7 Contacts  GENDER  F = Female Socket Contacts M = Male Pin Contacts  Machined Contacts M = Machined Contacts (Applicable 3 male pin contacts only)  SHELL STYLE  D = Small Flange (front or rear mounting) FN = Large Shell with Wide Flange FN = Large Shell with Narrow Flange (male only)  SHELL SERIES  Blank = Male P Shell Style Only Z = Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish B = Black Polyester Finish  CONTACT PLATING3  AU = Gold Plated  Blank = Individual Bags		3	=	3 Contacts
GENDER  F = Female Socket Contacts M = Male Pin Contacts  Machined Contacts M = Male Pin Contacts M = Machined Contacts M = Large Shell with Wide Flange PN = Large Shell with Narrow Flange Male P Shell Style Only Metal Chassis Series  SHELL FINISH2  Blank = Male P Shell Style Only Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish B = Black Polyester Finish  Blank = Standard Plating (Silver or Tin - refer to Standard Data) AU = Gold Plated  PACKAGING  Blank = Individual Bags		4	=	4 Contacts
TO TO THE CONTACTS  GENDER  F	CONTACT LAYOUTS	5	=	5 Contacts
GENDER  F		6A	=	6 Contacts
MACHINED CONTACTS 1  Blank Stamped Contacts M Stamped Contacts M SHELL STYLE  Blank SHELL STYLE  D SMAIL FINISH SHELL SERIES  SHELL FINISH Blank SHELL FINISH Blank Blank Standard Plating (Silver or Tin - refer to Standard Data)  AU Gold Plated  Male Pin Contacts  Male Pin Contacts  Machined Contacts  Machined Contacts  Machined Contacts  Machined Contacts  Machined Contacts  Machined Contacts  Male Pin Contacts  Machined Contacts  Male Flange (front or rear mounting)  For a small Flange (front or rear mounting)		7	=	7 Contacts
MACHINED CONTACTS¹  Blank = Stamped Contacts M = Machined Contacts (Applicable 3 male pin contacts only)  BHELL STYLE  D = Small Flange (front or rear mounting) Find the property of the prop	CENDED	F	=	Female Socket Contacts
MACHINED CONTACTS 1  M = Machined Contacts (Applicable 3 male pin contacts only)  D = Small Flange (front or rear mounting)  P = Large Shell with Wide Flange PN = Large Shell with Narrow Flange (male only)  SHELL SERIES  Blank = Male P Shell Style Only Z = Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish B = Black Polyester Finish  Blank = Standard Plating (Silver or Tin - refer to Standard Data)  AU = Gold Plated  PACKAGING  Blank = Individual Bags	GENDEN	M	=	Male Pin Contacts
CONTACTS1  M = Machined Contacts (Applicable 3 male pin contacts only)  D = Small Flange (front or rear mounting)  P = Large Shell with Wide Flange PN = Large Shell with Narrow Flange (male only)  SHELL SERIES  Blank = Male P Shell Style Only Z = Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish B = Black Polyester Finish  CONTACT PLATING3  Blank = Standard Plating (Silver or Tin - refer to Standard Data)  AU = Gold Plated  PACKAGING  Blank = Individual Bags	MACHINED	Blank	=	Stamped Contacts
CONTACT PLATING3  Blank = Standard Plating Blank = Standard Plating Blank = Standard Plating Blank = Gold Plated Blank = Gold Plated Blank = Gold Plated Blank = Individual Bags		M	=	Machined Contacts
SHELL STYLE  P = Large Shell with Wide Flange PN = Large Shell with Narrow Flange (male only)  SHELL SERIES  Blank = Male P Shell Style Only Z = Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish B = Black Polyester Finish  CONTACT PLATING3  AU = Gold Plated  Blank = Individual Bags	CONTROTO		(Applical	ble 3 male pin contacts only)
SHELL STYLE  P = Large Shell with Wide Flange PN = Large Shell with Narrow Flange (male only)  SHELL SERIES  Blank = Male P Shell Style Only Z = Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish B = Black Polyester Finish  CONTACT PLATING3  Blank = Standard Plating (Silver or Tin - refer to Standard Data) AU = Gold Plated  PACKAGING  Blank = Individual Bags		D	=	•
PN = Large Shell with Narrow Flange (male only)  SHELL SERIES  Blank = Male P Shell Style Only Z = Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish Black Polyester Finish  Blank = Standard Plating (Silver or Tin - refer to Standard Data) AU = Gold Plated  PACKAGING  Blank = Individual Bags				(front or rear mounting)
SHELL SERIES  Blank = Male P Shell Style Only Z = Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish Black Polyester Finish  Blank = Standard Plating (Silver or Tin - refer to Standard Data) AU = Gold Plated  PACKAGING  Blank = Individual Bags	SHELL STYLE		=	
SHELL SERIES  Blank = Male P Shell Style Only Z = Metal Chassis Series  SHELL FINISH2  Blank = Nickel Plated Finish Black Polyester Finish  Blank = Standard Plating (Silver or Tin - refer to Standard Data) AU = Gold Plated  PACKAGING  Blank = Individual Bags		PN	=	· ·
SHELL SERIES  Z = Metal Chassis Series  SHELL FINISH <sup>2</sup> Blank = Nickel Plated Finish  B = Black Polyester Finish  CONTACT PLATING <sup>3</sup> AU = Gold Plated  Blank = Individual Bags				
SHELL FINISH <sup>2</sup> Blank = Nickel Plated Finish B = Black Polyester Finish  CONTACT PLATING <sup>3</sup> Blank = Standard Plating (Silver or Tin - refer to Standard Data)  AU = Gold Plated  Blank = Individual Bags	SHELL SERIES	Diami	=	
SHELL FINISH <sup>2</sup> B  Black Polyester Finish  Blank  Standard Plating (Silver or Tin - refer to Standard Data)  AU  Gold Plated  Blank  Blank  Blank  Blank  Blank  Blank  Blank  Blank  Blank		Z	=	Metal Chassis Series
B = Black Polyester Finish  CONTACT PLATING3  Blank = Standard Plating (Silver or Tin - refer to Standard Data)  AU = Gold Plated  Blank = Individual Bags	GUELL EINIGUS	Blank	=	Nickel Plated Finish
CONTACT PLATING3  AU = Gold Plated  PACKAGING  Blank = Individual Bags	SHELL FINISH	В	=	Black Polyester Finish
AU = Gold Plated  Blank = Individual Bags		Blank	=	Standard Plating
PACKAGING  Blank = Individual Bags	CONTACT PLATING <sup>3</sup>			
PACKAGING		AU	=	Gold Plated
BULK = Bulk Packed	DACKACING	Blank	=	Individual Bags
	PACKAGING	BULK	=	Bulk Packed



<sup>&</sup>lt;sup>1</sup>4 - 7 contact connectors have machined contacts and grounding as standard. They are not available in stamped contacts.

 $<sup>^{\</sup>rm 2}$  Ground contacts are not supplied with the black polyester finish shell option.

<sup>&</sup>lt;sup>3</sup> 7 Contact is gold plated as standard.

<sup>&</sup>lt;sup>4</sup> Non-Latching Versions (Female) available - Please contact us for part number options.

## STANDARD DATA AC / AX SERIES CHASSIS - METAL "Z"

				VALUE			
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6A	7	
CHARACTERISTICS	Contact Arrangement (Front view of pin inserts)	1 e	•1 4 •2 •3	1 5 6 2 3 4 6	0 <sup>1</sup> 6 5 0 <sup>2</sup> 3 4	1 7 6 2 3 5 3 4	
	Termination		Solder Buck	cet / Printed Circuit	Board (PCB)		
	Max. Wire Gauge - Stranded wire: Solder Printed Circuit Board - PCB	14AWG N/A	16AWG N/A	18AWG N/A	18AWG N/A	20AWG N/A	
	Flammability rating of plastics			UL94V-0			
	Environmental		Complies with	EU RoHS 2 Directi	ve 2011/65/EU		
ELECTRICAL CHARACTERISTICS	Service Voltage RMS			133V <sup>1)</sup>			
CHANACIENISTICS	Test Voltage AC RMS			1400V			
	Current carrying capacity: Solder Printed Circuit Board (PCB)	15A 15A	10A 10A	7.5A 7.5A	7.5A 7.5A	5A 5A	
	Typical Contact Resistance			≤3mΩ			
	Insulation Resistance			≥1000MΩ			
CLIMATIC Characteristics	Protection Class			IP40			
	Operating Temperature		-25°C to	+75°C (-13°F to	+167°F)	1	
MECHANICAL Characteristics	Weight - Metal <sup>2)</sup>	31g	32g	33g	33g	33g	
		(0.068lb)	(0.070lb)	(0.072lb)	(0.072lb)	(0.072lb)	
	Mechanical Operations			1000 mating cycle	<b>9</b> \$		
MATERIALS	Connector Shell			Diecast Zinc Alloy	1		
	Shell Finish		Satin	Nickel or Black Po	lyester		
	Insulators		PAG	66 30% Glass Filled	l Resin		
	Male Contact						
	Stamped Solder and PCB-(Material/Plating)	Phosphor Bronze / Silver or Gold (optional)  Brass / Silver or Gold (optional)					
	Machined Solder-(Material/Plating)						
	Female Contact						
	Stamped Solder and PCB-(Material/Plating)		Phosphoi	Bronze / Tin or Go	old (optional)		
	Machined Solder-(Material/Plating)		Brass	/ Silver or Gold (O	ptional)		

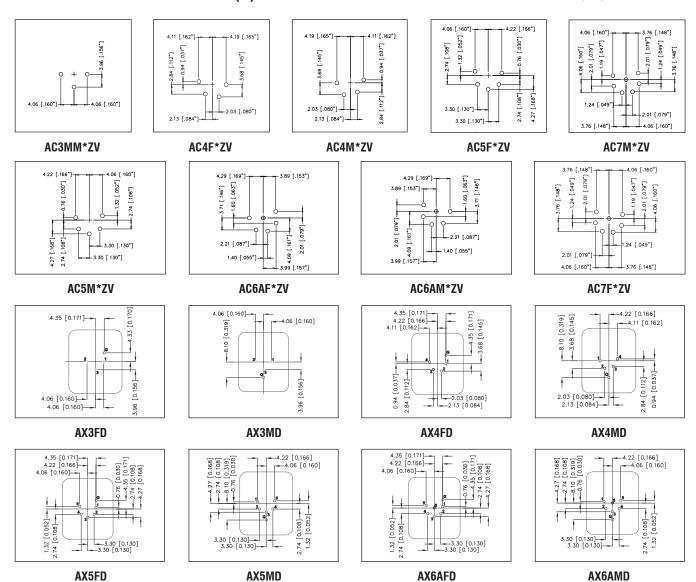
<sup>1)</sup> Not suitable for domestic applications above 50V

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

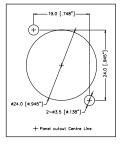
## AC / AX SERIES CHASSIS METAL "Z"

## PCB FOOTPRINTS STRAIGHT (V) CONNECTOR SIDE OF PCB

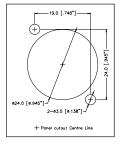
○ ø1.2mm(.05") + Panel Cutout CL



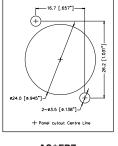
## PANEL CUTOUT DIMENSIONS FRONT VIEW



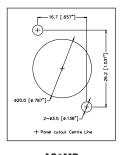
AC\*FDZ / AX\*FD



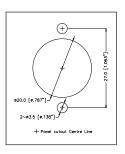
AC\*MDZ / AX\*MD



AC\*FPZ



AC\*MP



AC\*MPNZ

## **AC Series XLR PCB Chassis Mount Connectors**



# AC SERIES XLR PCB CHASSIS MOUNT CONNECTORS

The AC series, A and B type XLR chassis receptacles have been designed and manufactured with the Original Equipment Manufacturers' (OEM) needs in mind. The compact shell design allows a significant space saving over the traditional 'D' type shell. Gold plated contacts improve the performance, ensuring a reliable contact and the unique grounding link options offer flexibility in design.

## **Features**

- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- Vertical and Horizontal PCB versions available.
- Latching and Non-latching versions available.
- A range of different grounding options are available including:
  - Mating connector shell to Pin 1
  - Mating connector shell to Chassis
  - Mating connector shell to pin 1 to Chassis
- A type is available in 3, 4 or 5 contacts.
- . B type is available in 3 contact only.
- · Compatible with all other XLR brands.
- . Metal Mounting Flange (B type)

## **Options**

- · Vertical PCB contacts
- · Horizontal PCB contacts
- · Precision Machined Pin contacts
- · Cost effective Stamped Socket contacts
- · Gold Plated contacts (Standard)
- Silver Plated contacts (Optional)
- · Bulk Packaging
- Integrated Switch

## **Ordering Codes**

We have listed the more common ordering codes in each section. For further options please refer to the part number breakdown charts. Please contact us if you need any further assistance.

## Simple steps to guide you in using this catalogue

- Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- 7) In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.

## **AC Series XLR PCB Chassis Mount Connectors**



## **A TYPE**

## Features:

- Thermoplastic Shell
- Contact layouts in 3,4 or 5
- 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, Various grounding methods, Latching or Non-Latching.

Part Number Breakdown: Page 36 Specifications: Page 39 PCB Footprints: Page 40 Panel Cutouts: Page 41

**Recommended Fastener: Page 134** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
	25.4 [.998*]  Ampheno  1 3 2  2.7  [.106*]	-19.5 [.768*]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAH-AU-PRE
	25.4 [.998*]  Ampheno  2.7  [.106*]	-19.5 [.768*] -19.8 [.780*] -19.8 [.780*] -19.8 [.780*]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAH1-AU-PRE
	25.4 [.998*]  Amphero  1 3 2  2.7  [.106*]	-19.5 [.768"] -19.8 [.780"] -19.8 [.780"] -19.8 [.780"]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAH2-AU-PRE
	25.4 [.998"]———————————————————————————————————	19.5 [.768"]	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	AC3MAH4-SW-B
	25.4 [.998"]  Ampheno  4  C  Ampheno  2,7  1,106	24.0 [.945] 19.5 [.768] 19.5 [.768]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-PRE

## **AC Series XLR PCB Chassis Mount Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
	25.4 [998"]  (Ampheno)  (1 3 2)  (10)	24.0 [945] 19.5 [768] 19.5 [768]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-PRE
	25.4 [.998]	24.0 [945] 19.5 [768] 19.5 [768]	XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MA-AU-B
	25.4 [998"]  (FUSH)  (	3.2 (126°) 19.5 (766°) 19.5 (766°) 19.5 (766°)	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-PRE
	25.4 [.998*]  (PUSH)	3.2 [126"] 19.5 [786"] 19.5 [786"] 19.8 [780"]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-PRE
	25.4 [998"]  (PUSH)  (	3.2 [126"] 19.5 [768"] 19.5 [768"] 19.8 [760"]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3FAH2-AU-PRE
	25.4 [.998"]  25.4 [.998"]  (m) and (m	19.5 [.765]	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAHL-AU-PRE
	25.4 [.998*]  -25.4 [	19.5 [.766*]	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	AC3FAHL1-AU-PRE
	25.4 [.998*]    1	19.5 [.766]	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-PRE
(PUSE)	25.3 [.998*]  (PUSH)  (Amphan)  (Amphan)  (2.6)  (102*)	3.2 [126"] 19.5 [768"] 15.5 [138"] 24.0 [945"]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAV-AU-PRE
(eust)	25.5 [ 998']  (FUSH)	3.2 [.126*] 19.5 [.768*] 19.5 [.768*] 2.38* 2.4.0 [.945*]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAV1-AU-PRE

30

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
Enzag	25.3 [.998"]  (PUSH)  (PUSH)  (Amphenol ()  2,5 [.102*]	3.2 [.126"] 19.5 [.768"] 19.5 [.768"] 24.0 [.945"]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAV2-AU-PRE
	25.3 [.998] ———————————————————————————————————	19.5 [.768*] 19.5 [.768*] 19.8 [.779*] 19.8 [.779*] 19.8 [.779*] 19.8 [.779*] 19.8 [.779*]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAVL-AU-PRE
	25.3 [.998"]	19.5 [.768*] 19.5 [.768*] 19.8 [.779*] 19.8 [.779*] 19.8 [.779*] 19.8 [.779*]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAVL1-AU-PRE
	25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]	19.5 [.768*] 19.5 [.768*] 19.8 [.779*] 19.8 [.779*] 19.8 [.779*] 20.8 [.945*]	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-PRE
	25.0 [.984]  Amphanol  O  O  O  O  O  O  O  O  O  O  O  O  O	19.5 [.768*]	XLR 4 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC4MAH-AU-B
	19.8 [.780*] 1.88[.] 88[.] 88[.]	19.0 [.748"]	XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5MAH-AU-B
	19.8 [.780"] 10.8 [.780"]	25 [984"] 25 [984"] 20 04 27 [106]	XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5MAV-AU-B
	19.8 [780]	3.2 [125"] 19.5 [768"] 2.5 [768"] 2.5 [768"] 2.7 [106"]	XLR 5 pole female, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5FAH-AU-B
	19.8 [.780]	3.2 [.125"]	XLR 5 pole female, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5FAV-AU-B

## **AC Series XLR PCB Chassis Mount Connectors**



## **B TYPE**

## Features:

- Thermoplastic Shell with Metal Mounting Flange
- Contact layouts in 3 or 5
- Industry standard PCB footprints
- Improved grounding performance
- · 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 36
PCB Footprints: Page 40
Recommended Fastener: Page 134
Page 39
Panel Cutouts: Page 41

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
	25.3 [996"] 27 [106"]	19.5 [786]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBH-AU-PRE
	25.3 [.996"] 20.3 [.996"] 20.3 [.996"] 20.4 [.996"] 20.5 [.996"]	19.5 [.766"] 19.5 [.766"] 19.8 [.760"] 19.8 [.760"] 19.8 [.760"] 19.8 [.760"]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBH1-AU-PRE
	25.3 [.996"]———————————————————————————————————	19.5 [.768*] 19.5 [.768*] 19.5 [.768*] 19.5 [.768*] 19.5 [.768*] 19.5 [.768*]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3MBH2-AU-PRE
	25.3 [.996*]  Solve   Control   Cont	19.5 [766"]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBH3-AU-PRE
	25.3 [ 996"] 27 [ 106"]	9.5 [766]	XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBHL-AU-PRE
	25.3 [.996*]	24.0 [945'] 19.5 [766'] 19.5 [766'] 19.8 [780'] 19.8 [780']	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBV-AU-PRE

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
	25.5 [.996] 	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBV1-AU-PRE
	2.7 [.100"]— 2.5 [.130"]— 2.7 [.100"]— 2.7 [	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3MBV2-AU-PRE
	25.3 [ 596°] ————————————————————————————————————	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBV3-AU-PRE
	25.5 [996"]  19.8 [780"]  19.8 [780"]  27 [106"]  2.7 [106"]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBH-AU-PRE
	27 [100]———————————————————————————————————	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3FBH1-AU-PRE
	25.5 [.996"]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3FBH2-AU-PRE
	25.5 [596"] - 19.8 [780"] - 19	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBH3-AU-PRE
	25.3 [ 996"] ————————————————————————————————————	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBHL-AU-PRE

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	FINISH	PART NUMBER
	25.5 [ 996"]	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to mating connector shell	Nickel Finish	AC3FBHL1-AU-PRE
	2.7 (.106°)-  2.7 (.106°)-  3.5 [.180°]-  3.	XLR 3 pole female, Horizontal PCB, Non- Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground.	Nickel Finish	AC3FBHL2-AU-PRE
	25.3 [996"]  27 [106"]  27 [106"]	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBHL3-AU-PRE
	25.3 [996"]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBV-AU-PRE
	25.5 [396] ————————————————————————————————————	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to mating connector shell	Nickel Finish	AC3FBV1-AU-PRE
	25.3 [396"] — 3.0 [116"] — 9.8 [.780"] — 9.8	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground.	Nickel Finish	AC3FBV2-AU-PRE
	25.5 [996"]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBV3-AU-PRE
	2.7 [.106*]— 3.5 [.140*]— 3.5 [	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBVL-AU-PRE

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	FINISH	PART NUMBER
	25.3 [.96*] 24.0 [.945*] 27. [.106*] 27. [.106*]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3FBVL1-AU-PRE
	25.3 [.996*] 24.0 [.945*] 3.6 [.138*] 2.7 [.106*]	XLR 3 pole fernale, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis -Pin 1 sep. Ground.	Nickel Finish	AC3FBVL2-AU-PRE
	25.3 [.996*] 27. [.106*] 27. [.106*]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBVL3-AU-PRE
Push	3.2 [.125"]	XLR 5 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5FBH-AU-PRE
(Septer)	3.2 [.125"]	XLR 5 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5FBV-AU-PRE
	19.8 [.780"]————————————————————————————————————	XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5MBH-AU-PRE
	24 [.945"] — 25 [.984"] — 25 [.984"] — 25 [.984"] — 27.5 [1.083"] — 27.7 [.106"]	XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5MBV-AU-PRE

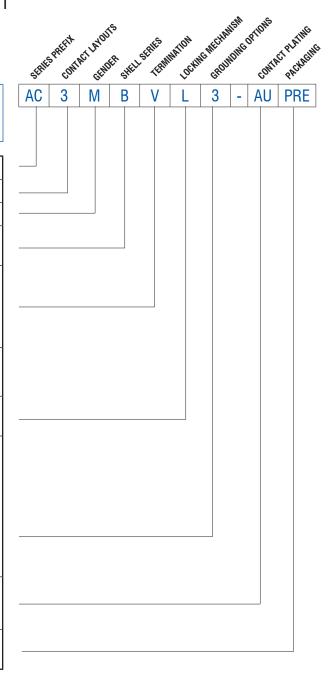
## PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE MALE - 3 CONTACT

## E. G. AC3MAVL3-AU PRE

AC (series prefix), 3 contacts, Male, A Type, Vertical Printed Circuit Board, Latchless, 3 (Mating Shell to Pin 1 Grounding), - AU (Gold Plated Contacts), PRE Bulk Packaged.

SERIES PREFIX	AC =		Series Prefix
CONTACT LAYOUT	3	=	3 Contact only
GENDER	М	=	Male Socket Contacts
SHELL SERIES	Α	=	А Туре
STILLE SETTILS	В	=	B Type
	Н	=	Horizontal Printed Circuit Board
TERMINATION	V	=	Vertical Printed Circuit Board
	Blank	=	Solder Bucket Contacts
	Diank		Colder Bucket Collidates
MOUNTING FLANGE FINISH (B TYPE ONLY)	Blank	=	Nickel
LOCKING	Blank	=	Latching
MECHANISM	L	=	Latchless
	Blank	=	No Ground Link
	1	=	Pin 1 to Chassis to mating connector shell
GROUNDING LINK	2	=	Mating Connector shell to Chassis, Pin 1 to separate ground
OI HONO	3	=	Mating connector to Pin 1
	4	=	Mating connector to Shell to Chassis to PCB, Pin 1 separate ground
	AU	=	Gold Plated Contacts
CONTACT PLATING	AG	=	Silver Plated Contacts (Non-Standard)
DACKACING	PRE	=	Bulk Packed
PACKAGING	PRD	=	Disassembled push latch



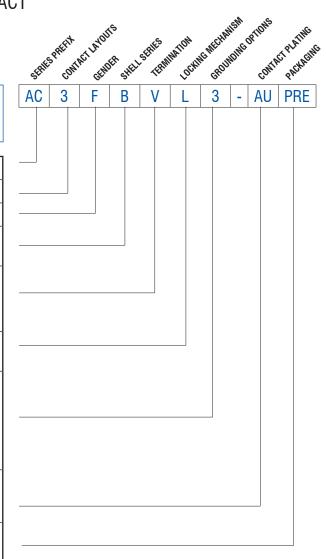
## PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE FEMALE - 3 CONTACT

## E. G. AC3MAVL3-AU B

AC (series prefix),3 contacts, Female, A Type, Vertical Printed Circuit Board,Latchless, 3 (Pin 1 to Chassis Grounding), - AU (Gold Plated Contacts), PRE Bulk Packaged.

SERIES PREFIX	AC =		Series Prefix
CONTACT LAYOUT	3	=	3 Contact only
GENDER	F	=	Female Socket Contacts
SHELL SERIES	A B	= =	A Type B Type
TERMINATION	H V	=	Horizontal Printed Circuit Board Vertical Printed Circuit Board
LOCKING MECHANISM	Blank L	= =	Latching Latchless
GROUNDING LINK OPTIONS	Blank 1 2 3	= = =	No Ground Link Pin 1 to Chassis to mating connector shell Mating Connector shell to Chassis, Pin 1 to separate ground Pin 1 to Chassis
CONTACT PLATING	AU AG	= =	Gold Plated Contacts Silver Plated Contacts (Non-Standard)
PACKAGING	PRE PRD	=	Bulk Packed Disassembled push latch



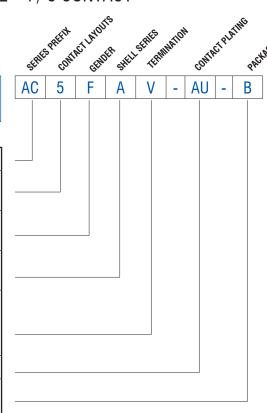
# PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE MALE AND FEMALE - 4 / 5 CONTACT

E. G. AC5FAV-AU-B

AC (series prefix),5 contacts, Female, A Type, Vertical Printed Circuit Board, AU (Gold Plated Contacts) - Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	4 5	=	4 Contact 5 Contact
GENDER	F M	=	Female Socket Contacts Male Pin Contacts
SHELL SERIES	A B	=	A Type B Type
TERMINATION	H V	=	Horizontal Printed Circuit Board Vertical Printed Circuit Board
CONTACT PLATING	AU	=	Gold Plated Contacts
PACKAGING	B PRE	= =	Bulk Packed PRE Series Bulk Packed



# STANDARD DATA AC SERIES A AND B TYPE CHASSIS

		VALUE				
GENERAL CHARACTERISTICS	Number of contacts	3	4	5		
CHANACIENISTICS	Contact Arrangements (Front view of pin insert)		(a) 1/a	( 5 5 6 3 4 6 )		
	Termination		Printed Circuit Board (PCB)			
	Flammability rating of plastics		UL94V-0			
	Environmental	Complie	es with EU RoHS 2 Directive 201	1/65/EU		
ELECTRICAL CHARACTERISTICS	Service Voltage RMS		133V <sup>1</sup>			
CHARACIERISTICS	Test Voltage AC RMS		1500V			
	Current carrying capacity	6	6A	3A		
	Typical Contact Resistance		≤5mΩ			
	Insulation Resistance (initial)		≥2GΩ			
	Insulation Resistance (after damp heat test)		≥1GΩ			
CLIMATIC	Protection Class	IP40				
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)				
MECHANICAL	Weight <sup>2</sup>	14g (0.030lb)				
CHARACTERISTICS	Retention Spring separating force	≥20N				
	Mounting Screw 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 Ti	i-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			
	Insulators	PA6.6	6+25% glass fibre reinforced, UL	.94V-0		
	Male Contact Material	Brass				
	Male Contact Plating	0.05μm gold over 2μm nickel				
	Female Contact Material	Bronze				
	Female Contact Plating		$0.05 \mu \mathrm{m}$ gold over $2 \mu \mathrm{m}$ nickel			
	Latch lock and Spring		Spring Steel			
	Ground element		Spring Steel			

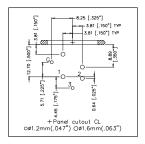
 $<sup>^{\</sup>rm 1}$  Not suitable for domestic applications above 50V

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

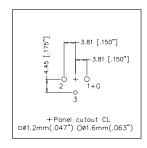
<sup>&</sup>lt;sup>3</sup> Refer to page 134

# **AC SERIES A AND B TYPE CHASSIS**

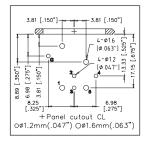
#### PCB FOOTPRINTS - CONNECTOR SIDE OF PCB



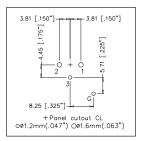
AC3FAH2 AC3FBH2



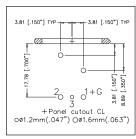
AC3FAV1 AC3FAV3 AC3FBV1 AC3FBV3 AC3FAV **AC3FBV** 



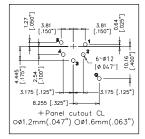
AC5FAH



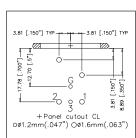
AC3FAV2 AC3FBV2



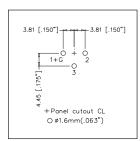
AC3MAH1 AC3MAH3 AC3MBH1 AC3MBH3 AC3MAH AC3MBH **AC3MBHL** 



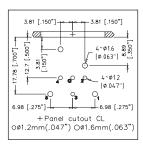
**AC5FAV** 



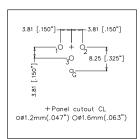
AC3MAH2 AC3MAH4 AC3MBH2



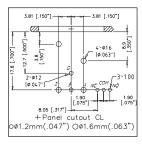
AC3MAV1 AC3MAV3 AC3MBV1 AC3MBV3 **AC3MAV AC3MBV** 



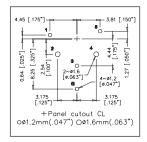
AC5MAH



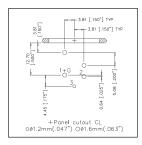
AC3MAV2 AC3MAV4 AC3MBV2



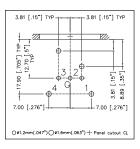
AC3MAH4SWB



**AC5MAV** 



AC3FAH1 AC3FAH3 AC3FBH1 AC3FBH3 AC3FAH AC3FBH



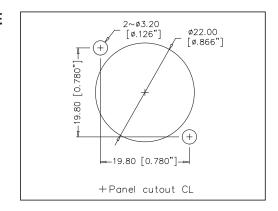
**AC4MAH** 

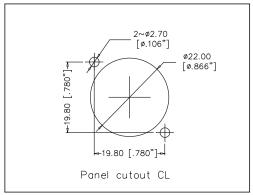
40

# **AC SERIES A AND B TYPE CHASSIS**

#### **PANEL CUTOUT DIMENSIONS - FRONT VIEW**

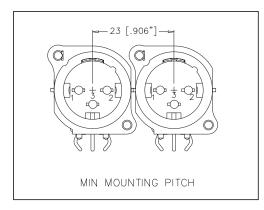
#### **A TYPE**

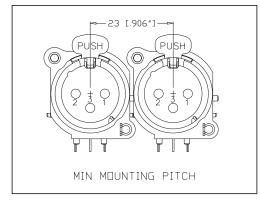




**B TYPE** 

#### A AND B **TYPE MALE MOUNTING PITCH**

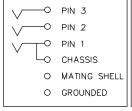


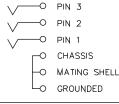


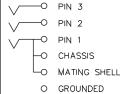
A AND **B TYPE FEMALE MOUNTING** PITCH

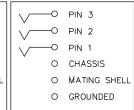
# **AC3FA/BH/V SCHEMATIC CHART**

AC3FA/BH/V3-AU AC3FA/BH/VL3-AU AC3FA/BH/V2-AU AC3FA/BH/VL2-AU AC3FA/BH/V1-AU AC3FA/BH/VL1-AU AC3FA/BH/V-AU AC3FA/BH/VL-AU



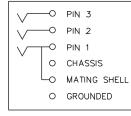


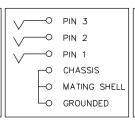


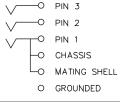


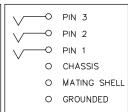
AC3MA/BH/V3-AU AC3MA/BH/VL3-AU AC3MA/BH/V2/4-AU AC3MA/BH/V1-AU AC3MA/BH/VL2/4-AU AC3MA/BH/VL1-AU

AC3MA/BH/V-AU AC3MA/BH/VL-AU









AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount



# AC SERIES DUAL 1/4" (6.35MM) / XLR CHASSIS MOUNT

The AC Series C type chassis receptacles feature two connectors in the one space saving housing. A combined XLR female receptacle together with a 6.35mm (1/4") phone jack give the designer more flexibility ensuring premium board space is saved. The new low profile high density C type offers a 15% space saving over the traditional C type. Various configurations are available in either stereo or mono layouts with Vertical, Horizontal Printed Circuit Board or Solder contacts.

#### **Features**

- · Standard or low profile / high density shell design
- Two connectors in the one housing
- Industry standard PCB footprint layout on standard C type.
- · Vertical or Horizontal PCB mounting.
- · Bulk packed.
- · Positive latch lock system (XLR).

#### **Options**

- · Solder contacts
- · Vertical PCB contacts
- · Horizontal PCB contacts
- Bulk Packaging
- Overmoldable connector housing

#### **Ordering Codes**

We have listed the more common ordering codes in each section. For further options please refer to the part number breakdown charts. Please contact us if you need any further assistance.

# Simple steps to guide you in using this catalogue

- 1) Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.

#### AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount



#### Features:

- Two connectors in the one housing.
- Low profile design offers a 15% space saving over the traditional design.
  Vertical or Horizontal PCB mounting.
- Bulk packed in trays, 100 to a box as standard.
  Positive latch lock system (XLR).

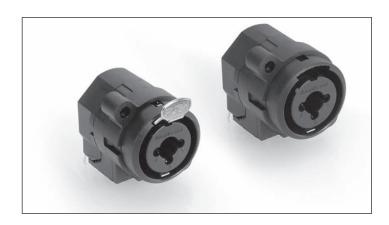
Part Number Breakdown: Page 48 Specifications: Page 50 PCB Footprints: Page 49 Recommended Fastener: Page 134

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	96   78   78   78   78   78   78   78   7	275 [1082] SCHEMATIC CHART  JACK  JACK  JACK  JACK  JACK  O 1  O 6	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6AH BULK
	966   06   10   10   10   10   10   10	275 [1092] SCHEMATIC CHART  JACK  SIR  O  O  O  O  O  O  O  O  O  O  O  O  O	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6AHL BULK
(A)	19 80   78   178	26.0   965  — 37   166  SCHEMATIC CHART JACK XIR JACK XIR O 1 O 1 O 1 O 6	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6AV2 BULK
	986   F ST	37   166   SCHEMATIC CHART JACK XLR O	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6AV2L BULK
	19 80   78 -   19 80   78 -   19 80   10 82	275 [1082]  SCHEMATIC CHART  JACK  XLR  O 3  O 2  SM  O 1  SM  O 6	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9AH BULK
	19 80   78   19 80   19 8	275 11082 SCHEMATIC CHART  JACK  XLR  36 0 3 0 1 0 1 0 5 0 6	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AHL BULK

#### AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	19 80 170   19   170   1	37   146  SCHEMATIC CHART JACK XLR  38	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9AV2 BULK
	-19 80   78   -19 80   78   -10 80	37   146   SCHEMATIC CHART JACK XLR   3   3   3   3   3   3   3   3   3	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AV2L BULK
	1980   78	27.5   1082  SCHEMATIC CHART  JACK XLR  3.5   0.7    8.5   0.7    8.6   0.7    9.7	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10AH BULK
	-19.80   78  -19.80   78  -19.8	275   1082   SCHEMATIC CHART  JACK XLR  35   0   1  85   0   1  86   0   1  87   0   0  98   0  98	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10AHL BULK
	75 80   78) 75 80   78) 75 80   78) 75 80   78) 75 80   78) 75 80   78) 75 80   78)	24. 0 [ 94.5] - 3.7 [ 16.6] SCHEMATIC CHART JACK XIR JACK XIR Shi O 3 8 0 0 1 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10AV2 BULK
	19 80 1 78   19 80 1 78   10	24 0   945   37   146   SCHEMATIC CHART JACK XLR XLR   9   0   0   0   0   0   0   0   0   0	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10AV2L BULK

#### AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount



#### Features:

- Two connectors in the one housing.
   Space saving design.
   Industry standard PCB footprint layout.
   Vertical or Horizontal PCB mounting.
   Bulk packed in trays, 100 to a box as standard.
   Positive latch lock system (XLR).

Part Number Breakdown: Page 48 Specifications: Page 50 PCB Footprints: Page 49 Recommended Fastener: Page 134

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27 [1.063] -20 [787] -20 [787]	24 [945"] 10.6   SCHEMATIC CHART   ACK   XLR   O 1   O	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC5H BULK
	27 [1.065] -20 [1.057] -10 [1	SCHEMATIC CHART  JACK  N.B  0 5  0 2  0 1  7 [ 276"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5HL BULK
	27 (1.063) 10 (2.584)	24 [945] 10.6   SCHEMBIC CHART   SCHEMBI	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC5V BULK
10	27 [1.085] -20 [787] -20 [787] -20 [787] -20 [787] -20 [787]	24 [345]   SCHEMATIC CHART   ACK   M.R   O 1   O 1   O 1   O 1   O 6   O 6   O 6   O 6   O 6   O 6   O 6   O 6   O 6   O 6   O	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5VL BULK
	27 [1.063] -27 [1.063] -20 [.787] -20 [.787] -20 [.787] -20 [.787] -20 [.787] -20 [.787]	24 [945] 10.6   SCHEMBIC CHART   4.5 [.177] 4ACK M.R O 1   O 1   O 0   O 1   O 0   O 1   O 0   O 1   O 0   O 1   O 0   O	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC5S BULK
10	27 [1.065] -20 [787] -10 [394]	4.5 [1777] SCHEMATIC CHART  A.5 [1777] AGCS M.8  O 5  O 2  O 1  O 7  (2767)	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC5SL BULK

#### AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
RO	27 [1083] -20 [287] -20 [287] -4 [81] -4 [81] -4 [82] -4 [82	10.6 SCHEMATIC CHART  40.5 SCHEMATIC CHART	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6H BULK
	27 [1:083"] 20 [1:083"] 20 [1:083"] 10 [394"] 10 [394"]	SCHEMATIC CHART  SCHEMATIC CHART  ACC  SUB  O S  O S  O C  O T  (276*)	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6HL BULK
	27 (1 063 °) - 20 (187 °) - 20	24 [945] 10.6 SCHEMATIC CHART 400 XIS 0 3 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6V BULK
	27 [1.065] 20 [.787] 10 [.394]	24 [945]  -24 [945]  -3.5 [138]  SCHEMATIC CHART  ACK  M.B  OS  OS  OS  OR  O1  OG  7 [276]	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6VL BULK
	27 [1.063] 20 [.787] 10 [.394]	24 [945] 10.6 SCHEMATIC CHART 4ACS XLS 0 3 0 2 1 0 0 1 0 6	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC6S BULK
6	27 (1.063°) 20 (7.83°) 10 (394°)	24 [945]  -4.5 [177]  SCHEMATIC CHART  4ACS  M.B  O S  O C  O T  O T	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC6SL BULK
	27 (1063) -20 (187) -20 (187)	10.6 SCHEMATIC CHART  465 3 0	XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9H BULK
	27 (1.063°) 20 (1.787°) 4 (1.61°) (2.787°) 10 (1.944°)	SCHEMATIC CHART  ACK  SLE  SCHEMATIC CHART  ACK  SLE  SLE  SLE  SLE  SLE  SLE  SLE  SL	XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9HL BULK

#### AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27 (1 063") 20 (28") (Cup)	24 [945] 10.6 SOHEMATIC CHART 4ACS 3LE SON O 2	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9V BULK
10	27 [1.063] 20 [.787] 10 [.394]	24 [945]  -3.5 [138]  SCHEMATIC CHART  402  318  0 2  0 8  0 1  7 [276]	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9VL BULK
	27 [1 063*] 20 [27*] 20 [27*] 20 [27*] 21 [27*] 22 [27*] 23 [27*] 24 [27*] 25 [27*] 26 [27*] 27 [27*] 28 [27*] 29 [27*] 20 [27*]	24 [345] 10.6 A.5 [1777] 4477] SCHEMATIC CHART AGO 3L8 O 5 O 8 O 0 7 O 10 O 0 7 O 10 O 0 7 O 0 0 7 O 0 0 7 O 0 0 7 O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Latching	ACJC9S BULK
30	27 [1.063] 20 [.787] 10 [.394]	24 [.945]  4.5 [.177]  SCHEMATIC CHART  ACX  3.8  0.5  0.5  0.5  0.7  0.8  0.1  7 [.276]	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC9SL BULK
	27 (1.065°) 20 (.787°) 20 (.787°) 20 (.787°) 21 (.785°) 22 (.785°) 23 (.785°) 24 (.785°) 25 (.785°) 26 (.785°) 27 (.785°) 28 (.785°) 29 (.785°) 20 (.785°) 20 (.785°) 20 (.785°) 20 (.785°) 21 (.785°) 22 (.785°) 23 (.785°) 24 (.785°) 25 (.785°) 26 (.785°) 27 (.785°) 28 (.785°) 29 (.785°) 20 (.785°)	10.6   10	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10H BULK
	27 [1.063] -20 [.787] -20 [.787] -10 [.394] -10 [.394]	SCHEMATIC CHART  4ACS  3LS  0 3  0 2  0 8  0 1  7 [ 276"]	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10HL BULK
	27 (1 063°) 20 (28°) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer) (Cuer)	24 [945] 10.6 SOHMATIC CHART  3.5 [135] 447 SOHMATIC CHART  460 ME  0 3 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10V BULK
	27 [1.063*] 20 [.787*] 31 [.509*] 10 [.394*]	24 [945]  4.5 [177]  SCHEMATIC CHART  ADS  342  342  342  342  344  344  345  345	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10VL BULK

AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
10	27 (1.05.7) 20 (1.75.7) 20 (1	24 [.945"] 10.6  A.5 [.177"] AOX V.R  O S O 2  O S O 2  O S O 2  O S O 2  O S O 2  O S O 2  O S O 2  O S O 2  O S O 2  O S O 3  O	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Latching	ACJC10S BULK
60	27 (1.05x*) 20 (7.97*) 10 (7.94*) 10 (7.94*)	24 [945]  A.5 [1777]  SCHEMATIC CHART  ACK  NACK  NACK	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC10SL BULK

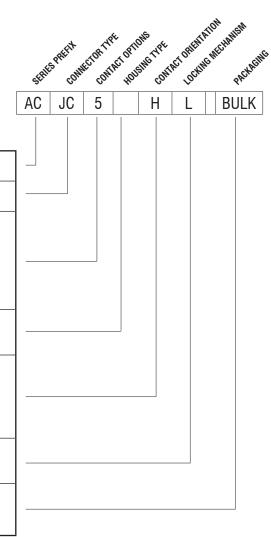
# PART NUMBER BREAKDOWN

#### AC SERIES THERMOPLASTIC C TYPE

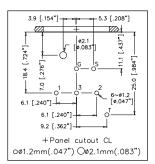
Latchless, Bulk Packaged.

E. G . ACJC5HL BULK
AC (Series Prefix),JC Jack/Connector XLR, 5 Mono, Horizontal Printed Circuit Board,

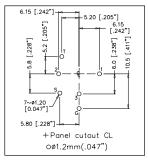
SERIES PREFIX	AC	=	Series Prefix
CONNECTOR TYPE	JC	=	Jack / Connector XLR
CONTACT OPTIONS	5 6 9 10	= = =	Mono, Non Switching, XLR Grounded Stereo, Non Switching, XLR Grounded Stereo, Switching, XLR Grounded Stereo, Switching, XLR with Ground Switch
HOUSING TYPE	Blank A	=	Standard Low Profile / High Density
CONTACT TYPE	V V2 H S	= = = =	Vertical Pritned Circuit Board Vertical Printed Circuit Board (24mm) Horizontal Printed Circuit Board Solder Contacts
LOCKING MECHANISM	Blank L	= =	Latching Latchless
PACKAGING	Blank BULK PRD		Individual Bags Bulk Packed Disassembled push lever



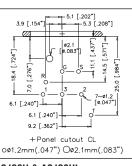
# **AC SERIES C TYPE SERIES**



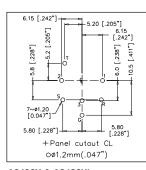




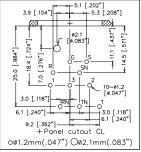
ACJC5V & ACJC5VL



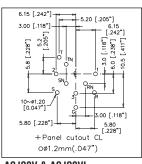
ACJC6H & ACJC6HL



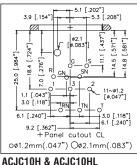
**ACJC6V & ACJC6VL** 

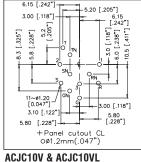


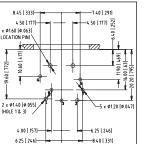
ACJC9H & ACJC9HL



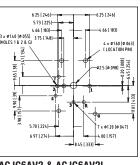
**ACJC9V & ACJC9VL** 



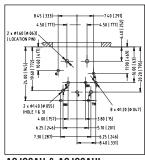




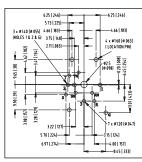
**ACJC6AH & ACJC6AHL** 



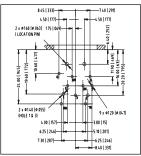
ACJC6AV2 & ACJC6AV2L



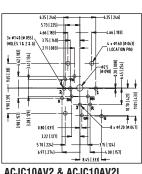
ACJC9AH & ACJC9AHL



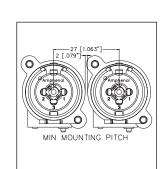
ACJC9AV2 & ACJC9AV2L



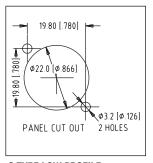
ACJC10AH & ACJC10AHL



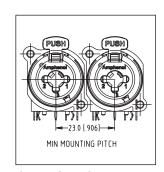
ACJC10AV2 & ACJC10AV2L



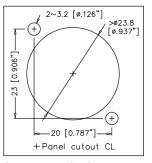
**C TYPE MOUNTING PITCH** 



**C TYPE LOW PROFILE** PANEL CUTOUT



**C TYPE LOW PROFILE MOUNTING PITCH** 



**C TYPE PANEL CUTOUT** 

# STANDARD DATA C TYPE CHASSIS RECEPTACLES

		VALUE		
		LOW PROFILE TYPE	STANDARD C TYPE	
GENERAL Characteristics	Number of contacts	5, 6, 9	or 10	
CHANACIENISTICS	Termination	Printed Circuit Board (PCB)	Printed Circuit Board (PCB) or Solder Bucket	
	Flammability	UL 9	94HB	
	Environmental	Complies with EU RoHS	2 Directive 2011/65/EU	
ELECTRICAL Characteristics	Service Voltage RMS	50	V	
CHARACIERISIICS	Test Voltage AC RMS	150	00V	
	Current carrying capacity	7.	5A	
	Typical Contact Resistance	≤50	mΩ	
	Insulation Resistance (initial)	> 0.	5GΩ	
	Insulation Resistance (after damp heat test)	> 0.1	2GΩ	
CLIMATIC	Protection Class	IP	40	
CHARACTERISTICS	Operating Temperature	-25°C to	) +70°C	
MECHANICAL Characteristics	Weight**	9.2g (0.02lb)	14g (0.030lb)	
CHARACTERISTICS	Retention Spring separating force	≥20N		
	Mounting Screw torque max.	1.5Nm		
	Mechanical Operations	1500 mating cycles		
	Fastening***	Self-Tapping PT screw with thread 2.9	x 1.06 and of Tri-rondular configuration	
MATERIALS	Connector Shell Shell Finish	PA6.6 + 30% glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB Black	
	Insulators	PA6.6 glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB	
	XLR Contact			
	Material	Bronze		
	Plating	Gold over Nickel plated		
	Jack Contact			
	Material	Bronze	Brass	
	Plating	Gold over Nickel plated	Silver over Copper plated	
	Latch lock and Spring	Nicke	el Plated	
	Ground element	Nickel Plated	Silver over Copper plated	

<sup>\*\*</sup>Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes.

<sup>\*\*\*</sup>Refer to Page 134



# G-TYPE MINIATURE XLR CONNECTORS

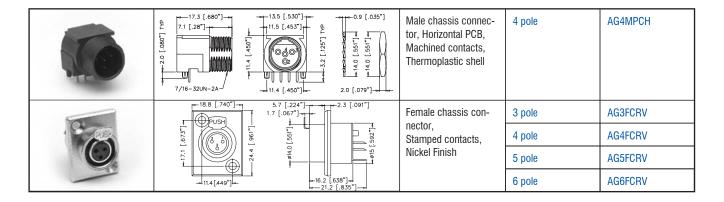
#### Features:

- Miniature version of the standard XLR series
- Diecast or Precision machined metal housings
- Metal cable clamp
- Precision machined pin contacts
- Stamped socket contacts
- Solder cup or Printed Circuit board contacts
- Available in 3, 4, 5 or 6 contacts
- Postive latchlock
- Flexible cable grommet

Part Number Breakdown: Page 52 Specifications: Page 53 PCB Footprints: Page 54 Panel Cutouts: Page 54

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			Male cable connector,	3 pole	AG3M
	ø10.5 [.413"]		Machined contacts, Nickel Finish	4 pole	AG4M
	ý .			5 pole	AG5M
	Ho-	——52 [2.055"]———————————————————————————————————		6 pole	AG6M
			Female cable con-	3 pole	AG3F
Call	#10.5 [.413*]*		nector, Stamped contacts,	4 pole	AG4F
		40.5 [1.596"]	Nickel Finish	5 pole	AG5F
	<b>4</b>	——49 [1.910"]—— <del>—</del>		6 pole	AG6F
	. 9 10	36 [1.398"]——⇒ 339"]	Female cable connec-	3 pole	AG3FL
1	12.9 [.508"]		tor with locking ring, Stamped contacts,	4 pole	AG4FL
(E)	. 912.9	49 [1.929"]	Nickel Finish.	5 pole	AG5FL
30	16 [.634"]—			6 pole	AG6FL
	1.0 [.039"]————————————————————————————————————	Male chassis connector, Machined contacts,	3 pole	AG3MCC	
	8 [.32"] 12 [.472"]		4 pole	AG4MCC	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Nickel Finish	5 pole	AG5MCC
	2.0 [.079*]	17.8 [.701*] <sup>†</sup> 3 pole-		6 pole	AG6MCC
Fush	22.1 [.870"] 2.5 [.098"]	1.0 2.0 [.079"]	Female chassis connector, Stamped contacts, Nickel Finish	3 pole	AG3FCE
		PUSH   1.89		4 pole	AG4FCE
	[16.5 [.6507]	-18.5 [.736"] -17.517.519.5 [.768"]		5 pole	AG5FCE
	8.6 [.337"]	8.4 [.333"]		6 pole	AG6FCE
	26.8 [1.056"] ——15.5 [.610"] ———1.0 [.039"]		Male chassis	3 pole	AG3MCCH
		-[5.2 [.5977]-	connector, Horizontal PCB,	4 pole	AG4MCCH
	2.5 [.098]	152 [.597]	Machined contacts, Nickel Finish	5 pole	AG5MCCH
	19.9 [.785*]	2.0 [.079*]	WORGI TIIIGII	6 pole	AG6MCCH
	28.3 [1.114"]— 2.5 [.098"]-	1.0 1.0 2.0 [.079*]	Female chassis	3 pole	AG3FCCH
	8.4 [.335 <sup>3</sup> ]		connector, Horizontal PCB,	4 pole	AG4FCCH
	-146 [575]- 28 [1101]	17.5—18.1 [.71] 4.0 [.157]	Stamped contacts, Nickel Finish	5 pole	AG5FCCH
				6 pole	AG6FCCH

#### **G-Type Miniature XLR Connectors**

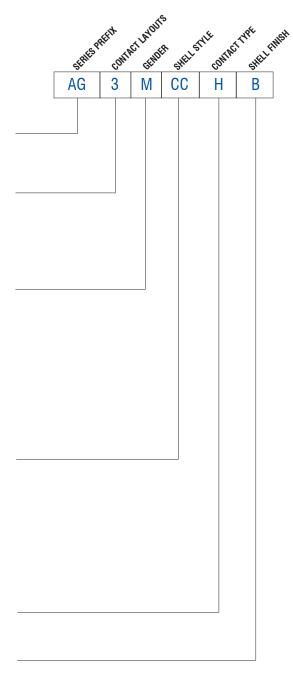


# PART NUMBER BREAKDOWN

**G TYPE CONNECTORS** 

E. G. AG3MCCHB AG (Series Prefix), 3 contacts, Male, Chassis Connector, Horizontal PCB Contacts, Black finish.

SERIES PREFIX	AG	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6	=	6 Contacts
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
	Blank	=	Cable Connector Standard (Male or Female)
SHELL STYLE	J	=	Cable Connector Large Cable clamp / boot O.D (Male or Female)
	L	=	Cable Connector with locking ring (Female)
	LL	=	Latchless (Chassis Connector)
	CC	=	Chassis Connector Circular Metal (Male)
	CE	=	Rear Mount (Chassis Connector)
	CM	=	Mid Mount (Chassis Connector)
	CR	=	Chassis Connector Rectangular Metal (Female)
	PC	=	Chassis Connector Plastic (Male)
	Blank	=	Solder Buckets (All styles except PC, CR)
CONTACT TYPE	Н	=	Horizontal PCB (Style CC, PC only)
	V	=	Vertical PCB (Style CR only)
	Blank	=	Nickel Plated Finish
SHELL FINISH	В	=	Black Finish



# **STANDARD DATA G TYPE**

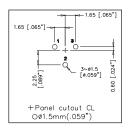
		Γ	VALUE			
GENERAL	Number of Contacts		3	4	5	6
CHARACTERISTICS	Termination		Printed Circuit Board (PCB) or Solder Bucket			
	Max. Wire Gauge - Stranded Wire		AWG 24 - 0.5mm <sup>2</sup> AWG 28 - 0.38mr			AWG 28 - 0.38mm <sup>2</sup>
	Flammability		UL94V-HB			
	Environmental		Complies with EU RoHS 2 Directive 2011/65/EU			
ELECTRICAL	Current Carrying Capacity		5A	5A	4A	1.2A
CHARACTERISTICS	Typical Contact Resistance		≤10mΩ			
	Insulation resistance (initial) After Damp Heat Test		≥510MΩ ≥10MΩ			
	Dielectric Strength		1000 V dc			250 V dc
CLIMATIC CHARACTERISTICS	Protection Class		IP00			
	Operating Temperature		-30°C to +80°C (-20F - +176F)			
MECHANICAL Characteristics	Insertion Spring Separating Force		≥20N			
	Cable O.D. Standard		2mm to 3.5mm (0.078" to 0.137")			
		Large clamp / boot (Option "J")	3mm to 5mm (0.118" to 0.196")			
	Mechanical Operations		5000 mating cycles			2000 mating cycles
	Weight		13.5g (0.029lb)			
MATERIALS	Connector Shell		Bronze & Zinc			
	Connector Shell Finish		Nickel Plated			
	Insulators		PPS - Black			
	Male Contact		Material - Brass C3604 Plating - Gold over Silver Plated			
	Female Contact		Material - Brass C5210P Plating - Gold over Silver Plated			
	Latch Lock and Spring		SUS (AISI - 301) - Nickel Plated			
	Adaptor		PPS - Black			
	Cable Clamp		Bronze - Nickel Plated			
	Boot/Backshell		ABS - Black			
	Grommet		PU - Black			

<sup>&</sup>lt;sup>1)</sup>Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes. Not suitable for voltages over 50V.

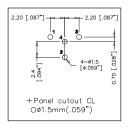
**G-Type Miniature XLR Connectors** 

#### **PANEL CUTOUTS**

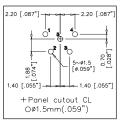
#### - CONNECTOR SIDE OF PCB



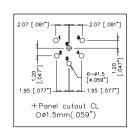
AG3MCC



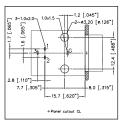
AG4MCC



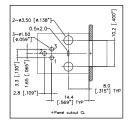
AG5MCC



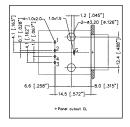
AG6MCC



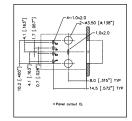
AG3FCCH



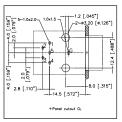
AG3MCCH



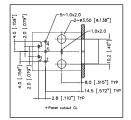
AG4FCCH



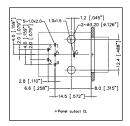
AG4MCCH



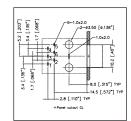
AG5FCCH



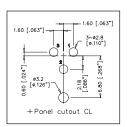
AG5MCCH



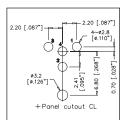
AG6FCCH



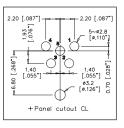
AG6MCCH



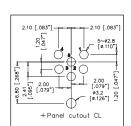
AG3FCRV



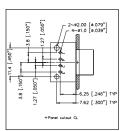
AG4FCRV



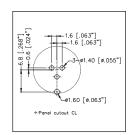
AG5FCRV



AG6FCRV

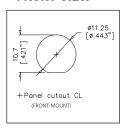


AG4MPCH

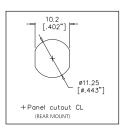


AG3FCE

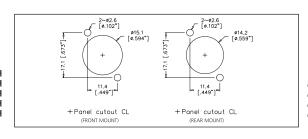
# PANEL CUTOUTS - FRONT VIEW



AG3MCC AG4MCC AG5MCC AG6MCC



AG3MCCH AG4MCCH AG5MCCH AG6MCCH AG4MPCH



AG3FCRV AG4FCRV AG5FCRV AG6FCRV