

# Amphenol Australia



**ENTERTAINMENT@AMPHENOL**  
TRUSTED GLOBALLY

ENTERTAINMENT INTERCONNECT CATALOGUE



## Amphenol Australia Pty. Ltd.

Amphenol Australia's head office is based in Melbourne, Victoria and is the Sales, Marketing and Engineering centre of excellence for an extensive range of professional connector and cabling products.

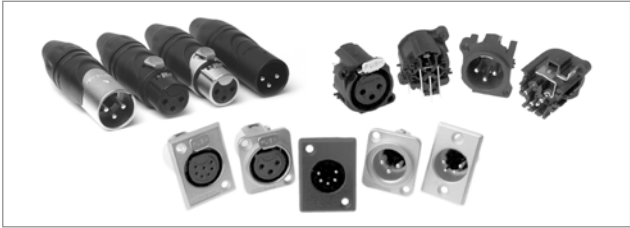
Amphenol's global presence allows us to take full advantage of our numerous corporate resources and product portfolio to provide you with a vast offering and choice. Our extensive range is designed to meet the specific needs of the entertainment markets to make the selection of your interconnect partner an easy choice.

The company has been producing products for the pro-audio industry for over fifty years. Since the development of our XLR AC Series connectors, we have continued to provide our customers with exacting quality in an increasingly competitive environment.

Continuous improvement through ISO9001, a focus on environmental awareness and development of next generation industry leading products is our philosophy. As the entertainment industry moves into the future the emerging technologies from other industries has become more prevalent and more challenging. Amphenol Australia's global presence combined with its close technical relationships with other Amphenol sister divisions, each a specialist and leader in their own interconnect field, places it well to support innovation and meet this challenge head on.

The ability of Amphenol to provide a full range of design services required to support the customers applications design and modelling, applications engineering, fabrication, value-added assembly and testing, coupled with the largest interconnect offering on the market means that we can support all of your system level needs.

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# XLR Connectors

## AX Series 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 O.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.

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- 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.



# XLR Connectors

## AX Series Cable Connectors



### Features:

- 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**


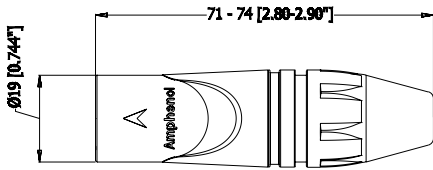

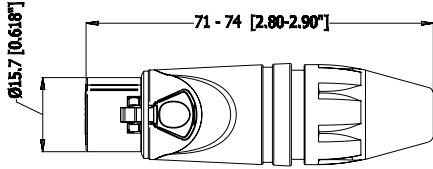

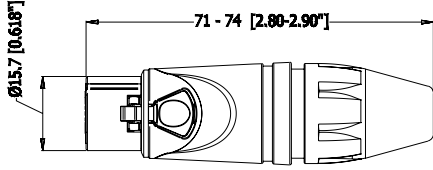

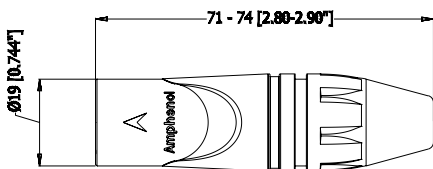

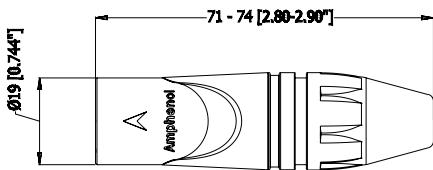

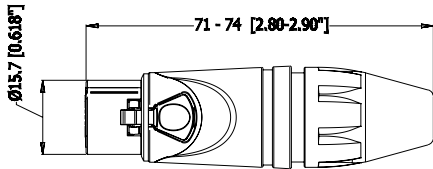

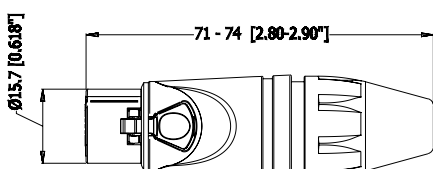
**Assembly Instructions: Page 6 & 7**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male Machined contacts Nickel Finish	Standard	AX3M
				Bulk Pack	AX3M BULK
			XLR 3 pole male Machined contacts Black Finish	Standard	AX3MB
				Gold Plated Contacts	AX3MB-AU
			XLR 3 pole female Stamped contacts Nickel Finish	Standard	AX3F
				Bulk Pack	AX3F BULK
			XLR 3 pole female Stamped contacts Black Finish	Standard	AX3FB
				Gold Plated Contacts	AX3FB-AU
			XLR 4 pole male Machined contacts Nickel Finish	Standard	AX4M
				Bulk Pack	AX4M BULK

\*PI538 is available for download at [www.amphenolaudio.com](http://www.amphenolaudio.com)

# XLR Connectors

## AX Series Cable Connectors

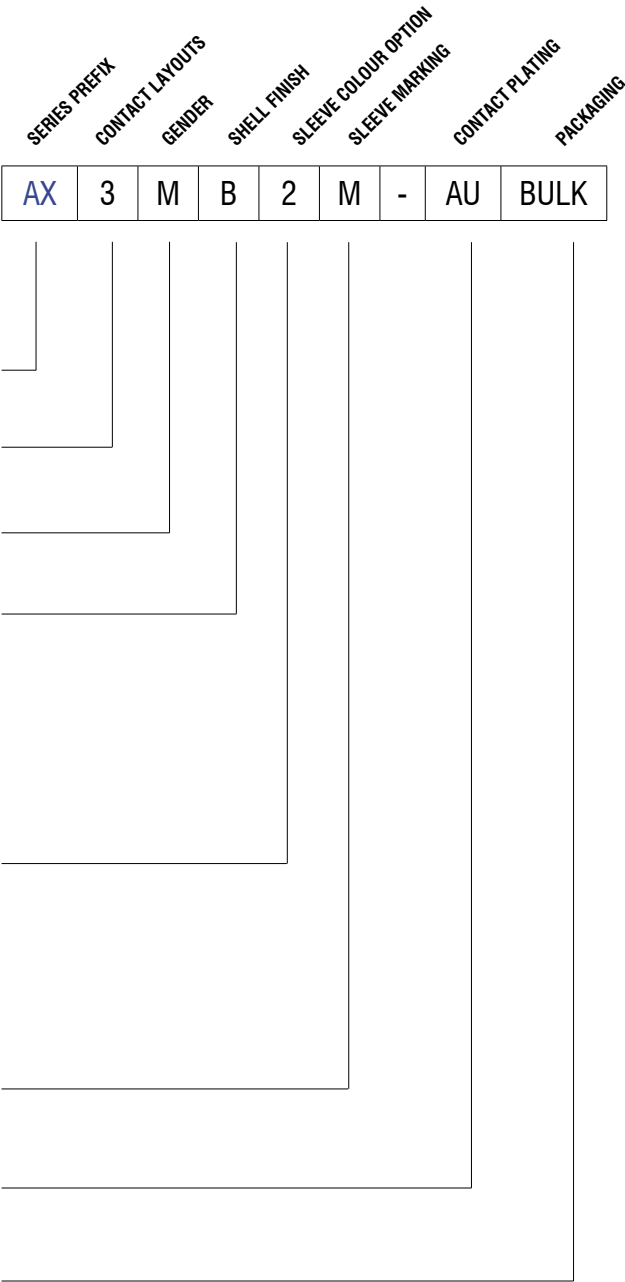
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male Machined contacts Black Finish	Standard	AX4MB
			Gold Plated Contacts	AX4MB-AU
			Bulk Pack	AX4MB BULK
		XLR 4 pole female Machined contacts Nickel Finish	Standard	AX4F
			Bulk Pack	AX4F BULK
		XLR 4 pole female Machined contacts Black Finish	Standard	AX4FB
			Gold Plated Contacts	AX4FB-AU
			Bulk Pack	AX4FB BULK
		XLR 5 pole male Machined contacts Nickel Finish	Standard	AX5M
			Bulk Pack	AX5M BULK
		XLR 5 pole male Machined contacts Black Finish	Standard	AX5MB
			Gold Plated Contacts	AX5MB-AU
			Bulk Pack	AX5MB BULK
		XLR 5 pole female Machined contacts Nickel Finish	Standard	AX5F
			Bulk Pack	AX5F BULK
		XLR 5 pole female Machined contacts Black Finish	Standard	AX5FB
			Gold Plated Contacts	AX5FB-AU
			Bulk Pack	AX5FB BULK

# PART NUMBER BREAKDOWN

## METAL SHELL TYPE - SOLDER

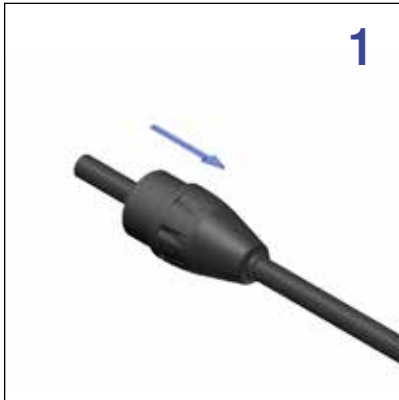
E. G . **AX3MB2M-AU BULK**  
**AX** (Series Prefix), **3** contacts, **Male**, **Black** Finish,  
**2** (Red Sleeve) **M** (Sleeve Marking) - **AU** (Gold Plated Contacts), **Bulk** Packaged.

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

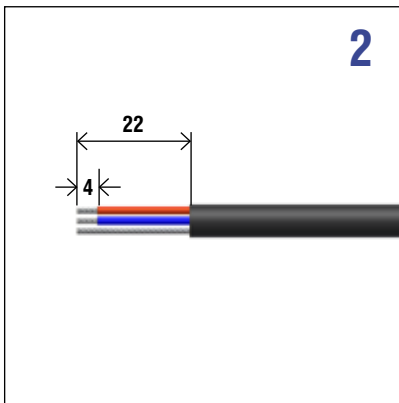


# XLR Connectors

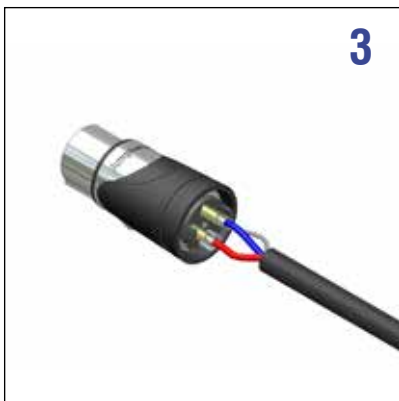
## AX Series Cable Connectors



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.



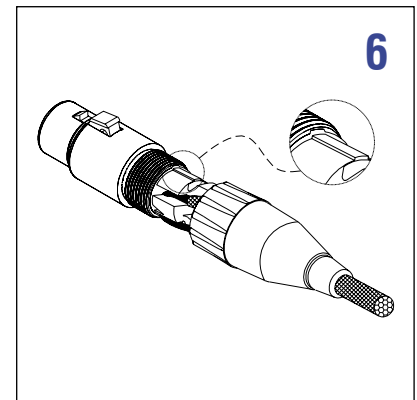
Install the cable clamp, flush to the insert making sure to align the top slot with the spring. Then push the insert & cable clamp together into the shell.



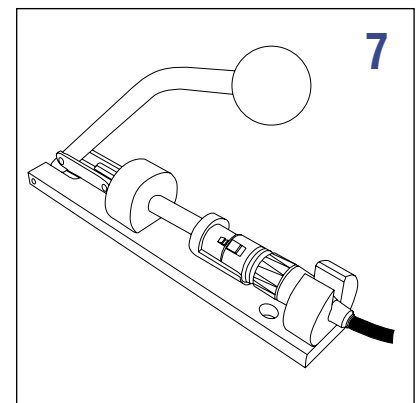
Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

# 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.

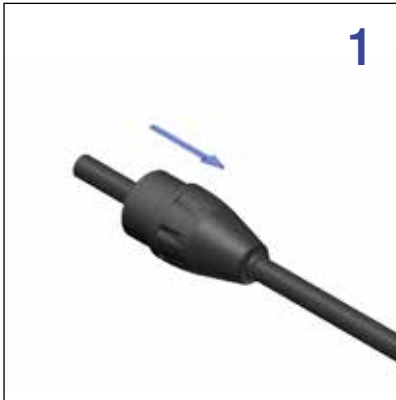


Final assembly can be achieved either by manually screwing the boot on, or by using an Amphenol Australia T2860 termination tool.

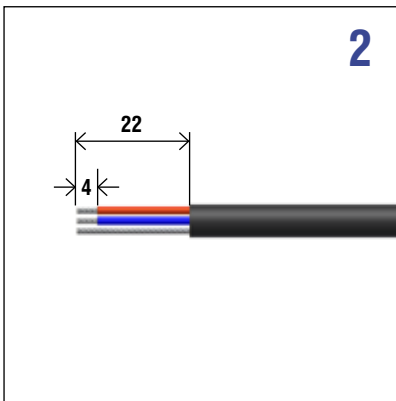


# PI538 ASSEMBLY INSTRUCTIONS

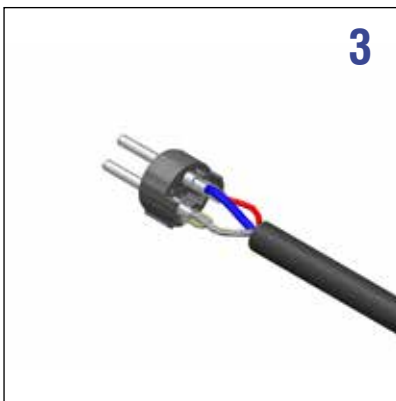
AX SERIES MALE XLR  
CABLE CONNECTOR



Slide the nut (Backshell) onto the cable



Strip the cable



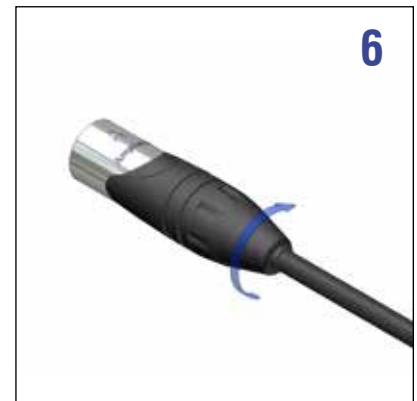
Solder the wires to the contacts.



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

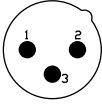

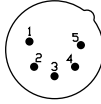


Align the key of the insert with the keyway on the shell then push the pin insert & cable clamp together in the shell.



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		
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	3	4	5
	AX Series Contact Arrangements (Front view of pin inserts)			
	Termination	SOLDER		
	Max. Wire Gauge - Stranded wire: Solder	14AWG	16AWG	18AWG
	Flammability rating of insulator plastics and housings	UL94V-0		
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU		
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS	133V <sup>1)</sup>		
	Test Voltage AC RMS	1400V		
	Current carrying capacity: Solder	15A	10A	7.5A
	Typical Contact Resistance	≤3m Ω		
	Insulation Resistance	≥1G Ω		
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40		
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)		
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal force	≥10N - ≤30N		
	Weight <sup>2)</sup>	31g (0.068lb)	33g (0.073lb)	33g (0.073lb)
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.		
	Cable O.D. range	3mm to 8mm (0.118" to 0.314")		
	Mechanical Operations	1000 mating cycles		
<b>MATERIALS</b>	Connector shell - Metal Shell finish	Diecast Zinc Alloy Satin nickel or Black		
	Insulators	UL94V-0 PA66, 30% Glass Filled		
	Boot / Backshell Finish	UL94V-0 Noryl N190 / Santoprene Black, other colours available - see page 80		
	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

<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
- 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 O.D 6.5mm to 8mm (0.255" to 0.314")

### Ordering Codes

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# XLR Connectors

## AC Series 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
		XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC3MM
			Bulk Pack	AC3MM BULK
		XLR 3 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC3MMB
			Gold Plated Contacts	AC3MMB-AU
		XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3M
			Large Cable Clamp	AC3MJ
		XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp	Bulk Pack	AC3M BULK
			Standard	AC3MB
		XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MB-AU
			Large Cable Clamp	AC3MBJ
		XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	Bulk Pack	AC3MB BULK
			Standard	AC3F
		XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	Large Cable Clamp	AC3FJ
			Bulk Pack	AC3F BULK
		XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC3FB
			Gold Plated Contacts	AC3FB-AU
		XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp	Large Cable Clamp	AC3FBJ
			Bulk Pack	AC3FB BULK











# XLR Connectors

## AC Series Cable Connectors

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4M
			Large Cable Clamp	AC4MJ
			Bulk Pack	AC4M BULK
		XLR 4 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC4MB
			Gold Plated Contacts	AC4MB-AU
			Large Cable Clamp	AC4MBJ
		XLR 4 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4F
			Large Cable Clamp	AC4FJ
			Bulk Pack	AC4F BULK
		XLR 4 pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC4FB
			Gold Plated Contacts	AC4FB-AU
			Large Cable Clamp	AC4FBJ
		XLR 5 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5M
			Large Cable Clamp	AC5MJ
			Bulk Pack	AC5M BULK
		XLR 5 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC5MB
			Gold Plated Contacts	AC5MB-AU
			Large Cable Clamp	AC5MBJ
		XLR 5 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5F
			Large Cable Clamp	AC5FJ
			Bulk Pack	AC5F BULK
		XLR 5 pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC5FB
			Gold Plated Contacts	AC5FB-AU
			Large Cable Clamp	AC5FBJ
		XLR 5 pole female, Machined contacts, Black Finish, Jaws cable clamp	Bulk Pack	AC5FB BULK

# XLR Connectors

## AC Series Cable Connectors

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AM
			Large Cable Clamp	AC6AMJ
			Bulk Pack	AC6AM BULK
		XLR 6A pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC6AMB
			Gold Plated Contacts	AC6AMB-AU
			Large Cable Clamp	AC6AMBJ
		XLR 6A pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AF
			Large Cable Clamp	AC6AFJ
			Bulk Pack	AC6AF BULK
		XLR 6A pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC6AFB
			Gold Plated Contacts	AC6AFB-AU
			Large Cable Clamp	AC6AFBJ
		XLR 7 pole male, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7M
			Large Cable Clamp	AC7MJ
			Bulk Pack	AC7M BULK
		XLR 7 pole male, Gold plated Machined contacts, Black Finish, Jaws cable clamp	Standard	AC7MB
			Large Cable Clamp	AC7MBJ
			Bulk Pack	AC7MB BULK
		XLR 7 pole female, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7F
			Large Cable Clamp	AC7FJ
			Bulk Pack	AC7F BULK
		XLR 7 pole female, Gold plated Machined contacts, Black Finish, Jaws cable clamp	Standard	AC7FB
			Large Cable Clamp	AC7FBJ
			Bulk Pack	AC7FB BULK

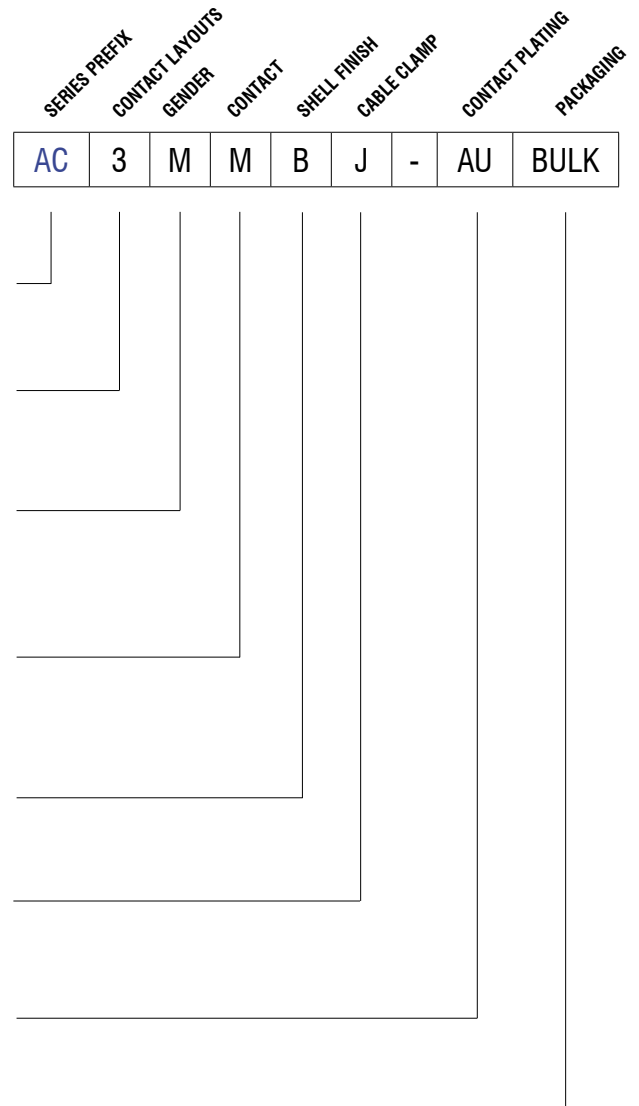
# PART NUMBER BREAKDOWN

## 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.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUTS</b>	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
	7	=	7 Contacts
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>CONTACT<sup>1</sup></b>	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)
<b>SHELL FINISH<sup>2</sup></b>	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
<b>CABLE CLAMP</b>	Blank	=	Standard Jaws 3mm - 6.5mm cable O.D. (0.118" to 0.255")
	J	=	Large Jaws 6.5mm - 8mm cable O.D. (0.255" to 0.314")
<b>CONTACT PLATING<sup>3</sup></b>	Blank	=	Standard Plating (Silver or Tin) (Refer to Standard Data)
	AU	=	Gold Plated
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed



### Note:

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

<sup>2</sup> Ground contacts are not supplied with the black polyester finish shell option.

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

<sup>4</sup> All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 135 and simply add colour to end of part number. Example: AC3MM - RED

# XLR Connectors

## AC Series 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.

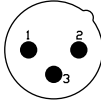
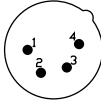
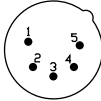
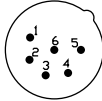
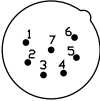
**Specifications:** [Page 15](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, Machined contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3MMCP
				Bulk Pack	AC3MMCP BULK
			XLR 3 pole male, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3MCP
				Bulk Pack	AC3MCP BULK
			XLR 3 pole female, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3FCP
				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 CHARACTERISTICS	Number of contacts		3	4	5	6A	7
	AC Series Contact Arrangements (Front view of pin inserts)						
	Termination		SOLDER				
	Max. Wire Gauge - Stranded wire: Solder		14AWG	16AWG	18AWG		20AWG
	Flammability rating (insulator plastics & housings)		UL94V-0				
	Environmental		Complies with EU RoHS 2 Directive 2011/65/EU				
ELECTRICAL CHARACTERISTICS	Service Voltage RMS		133V <sup>1</sup>				
	Test Voltage AC RMS		1400V				
	Current carrying capacity: Solder		15A	10A	7.5A		5A
	Typical Contact Resistance		≤3mΩ				
	Insulation Resistance		≥1GΩ				
CLIMATIC CHARACTERISTICS	Protection Class		IP40				
	Operating Temperature		-25 °C to +75 °C (-13°F to +167°F)				
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force		≥10N - ≤30N				
	Weight - Metal <sup>2</sup>		36g (0.080lb)	37g (0.081lb)	38g (0.083lb)		
	Weight - Thermoplastic <sup>2</sup>		18g (0.039lb)	19g (0.041lb)	20g (0.044lb)		
	Typical Cable retention force		22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.				
	Cable O.D. range - JAWS clamp	Standard Large	3mm to 6.5mm (0.118" to 0.255") 6.5mm to 8mm ( 0.255" to 0.314")				
	Mechanical Operations		1000 mating cycles				
	MATERIALS	Connector shell - Metal Shell finish		Diecast Zinc Alloy Satin nickel or Black polyester			
Connector shell - Thermoplastic Shell finish		Thermoplastic, UL94V-0 Modified PPE Resin Black					
Insulators		UL94V-0 PBT Resin or Modified PPE Resin					
Boot / Backshell Finish		UL94V-0 Modified PPE Resin or Machined Brass Black, other colours available - see page 135					
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 / Silver or Gold (Optional) Brass / Silver or Gold (Optional)				
Female Contact (Solder / Plating)		Stamped Machined	Phosphor Bronze / Tin or Gold (Optional) Brass / Silver or Gold (Optional)				

<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.

# XLR Connectors

## Chassis Mount



## 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.
- 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.



### 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.


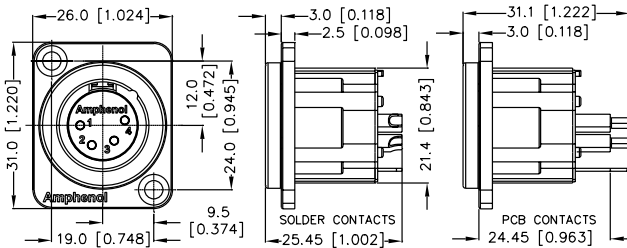


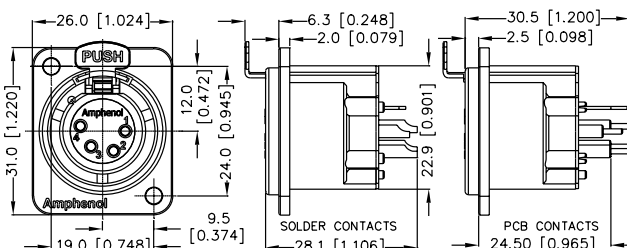


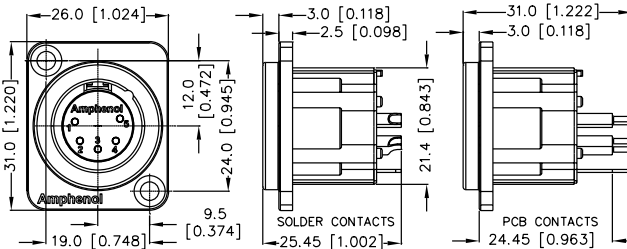

**Part Number Breakdown:** [Page 20](#)

**Specifications:** [Page 26](#)


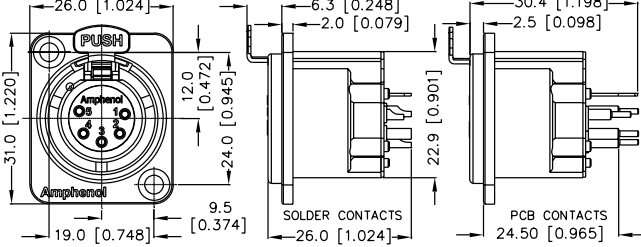


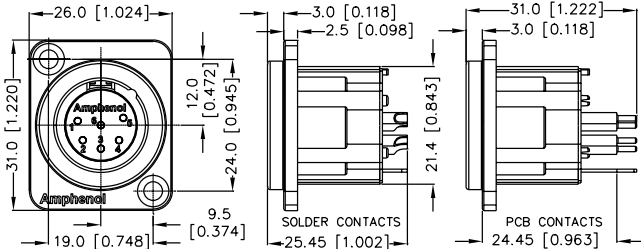


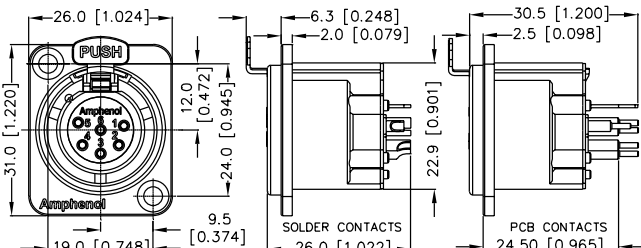

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
		XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AX3MD</a>
			M3 Threaded Holes	<a href="#">AX3MD-M3</a>
			Vertical PCB	<a href="#">AX3MDV</a>
			M3 Threaded Holes	<a href="#">AX3MDV-M3</a>
		XLR 3 pole male, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AX3MDB</a>
			M3 Threaded Holes	<a href="#">AX3MDB-M3</a>
			Gold Plated Contacts	<a href="#">AX3MDB-AU</a>
			Vertical PCB	<a href="#">AX3MDVB</a>
		XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	<a href="#">AX3FD</a>
			M3 Threaded Holes	<a href="#">AX3FD-M3</a>
		XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	<a href="#">AX3FDB</a>
			M3 Threaded Holes	<a href="#">AX3FDB-M3</a>
			Gold Plated Contacts	<a href="#">AX3FDB-AU</a>

# XLR Connectors

## AX Series Chassis Mount

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
		XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AX4MD</a>
			M3 Threaded Holes	<a href="#">AX4MD-M3</a>
			Vertical PCB	<a href="#">AX4MDV</a>
			M3 Threaded Holes	<a href="#">AX4MDV-M3</a>
		XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AX4MDB</a>
			Gold Plated Contacts	<a href="#">AX4MDB-AU</a>
			Vertical PCB	<a href="#">AX4MDVB</a>
		XLR 4 pole female, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AX4FD</a>
			M3 Threaded Holes	<a href="#">AX4FD-M3</a>
			Vertical PCB	<a href="#">AX4FDV</a>
			M3 Threaded Holes	<a href="#">AX4FDV-M3</a>
		XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AX4FDB</a>
			Gold Plated Contacts	<a href="#">AX4FDB-AU</a>
			Vertical PCB	<a href="#">AX4FDBV</a>
		XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AX5MD</a>
			M3 Threaded Holes	<a href="#">AX5MD-M3</a>
			Vertical PCB	<a href="#">AX5MDV</a>
			M3 Threaded Holes	<a href="#">AX5MDV-M3</a>
		XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AX5MDB</a>
			Gold Plated Contacts	<a href="#">AX5MDB-AU</a>
			Vertical PCB	<a href="#">AX5MDVB</a>



PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
		XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AX5FD</a>
			M3 Threaded Holes	<a href="#">AX5FD-M3</a>
			Vertical PCB	<a href="#">AX5FDV</a>
			M3 Threaded Holes	<a href="#">AX5FDV-M3</a>
		XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AX4FDB</a>
			Gold Plated Contacts	<a href="#">AX4FDB-AU</a>
			Vertical PCB	<a href="#">AX4FDVB</a>
		XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AX6AMD</a>
			M3 Threaded Holes	<a href="#">AX6AMD-M3</a>
			Vertical PCB	<a href="#">AX6AMDV</a>
			M3 Threaded Holes	<a href="#">AX6AMDV-M3</a>
		XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AX6AMDB</a>
			Gold Plated Contacts	<a href="#">AX6AMDB-AU</a>
			Vertical PCB	<a href="#">AX6AMDVB</a>
		XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AX6AFD</a>
			M3 Threaded Holes	<a href="#">AX6AFD-M3</a>
			Vertical PCB	<a href="#">AX6AFDV</a>
			M3 Threaded Holes	<a href="#">AX6AFDV-M3</a>
		XLR 6A pole female, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AX6AFDB</a>
			Gold Plated Contacts	<a href="#">AX6AFDB-AU</a>
			Vertical PCB	<a href="#">AX6AFDVB</a>

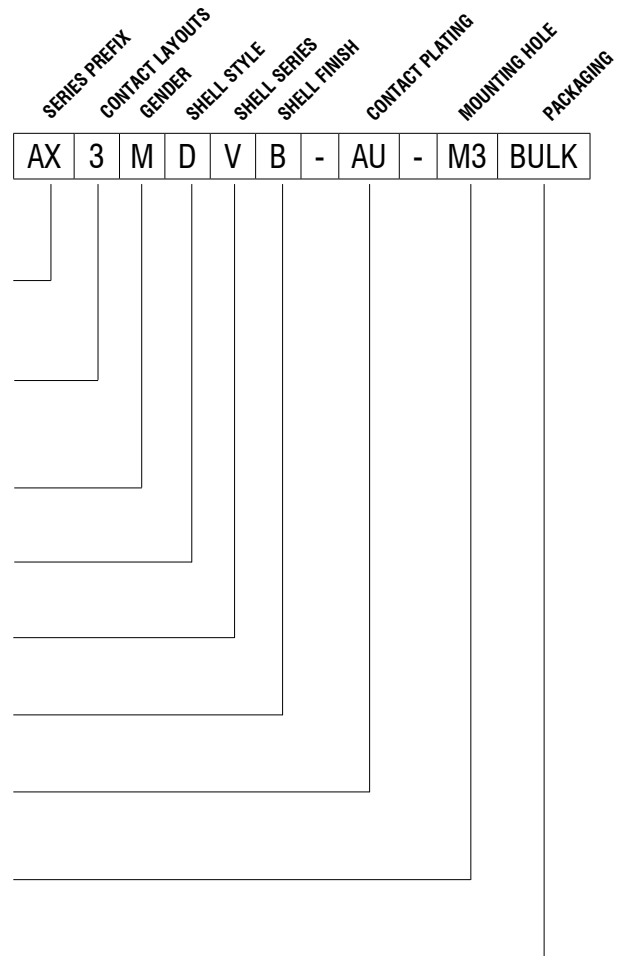
# PART NUMBER BREAKDOWN

## 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.

<b>SERIES PREFIX</b>	AX	=	Series Prefix
<b>CONTACT LAYOUTS</b>	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>SHELL STYLE</b>	D	=	Small Flange (front or rear mounting)
<b>SHELL SERIES</b>	Blank	=	Solder Bucket
	V	=	Vertical PCB Contact
<b>SHELL FINISH<sup>1</sup></b>	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
<b>CONTACT PLATING<sup>2</sup></b>	Blank	=	Standard Plating
	AU	=	Gold Plated
<b>MOUNTING HOLES</b>	Blank	=	Through Holes
	M3	=	M3 Threaded Holes
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed



### Note:

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

<sup>3</sup> Non-Latching Versions (Female) available - Please contact us for part number options.

# XLR Connectors

## AC "Z" Series Chassis Mount



### 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](#)


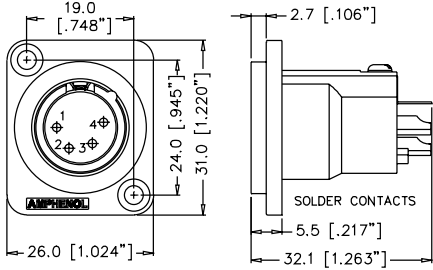


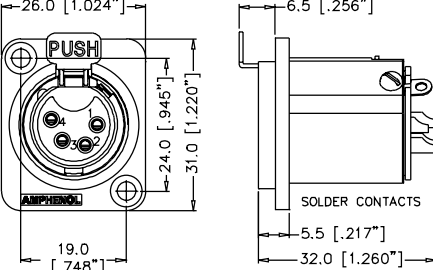


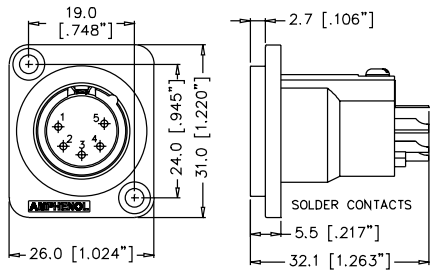


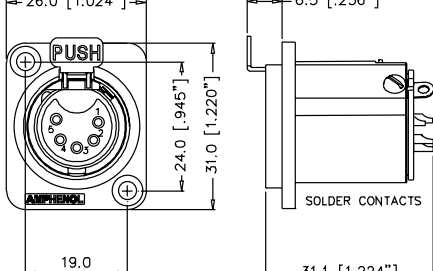

**PCB Footprints:** [Page 27](#)

**Panel Cutouts:** [Page 27](#)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AC3MMDZ</a>
		XLR 3 pole male, D Flange, Machined contacts, Black Finish	Bulk Pack	<a href="#">AC3MMDZ BULK</a>
		XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	<a href="#">AC3MDZ</a>
		XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Bulk Pack	<a href="#">AC3MDZ BULK</a>
		XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Standard	<a href="#">AC3MDZB</a>
		XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Gold Plated Contacts	<a href="#">AC3MDZB-AU</a>
		XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	<a href="#">AC3FDZ</a>
		XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Bulk Pack	<a href="#">AC3FDZ BULK</a>
		XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	<a href="#">AC3FDZB</a>
		XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Gold Plated Contacts	<a href="#">AC3FDZB-AU</a>


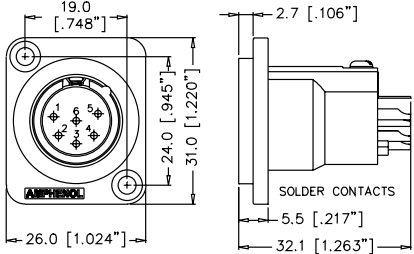

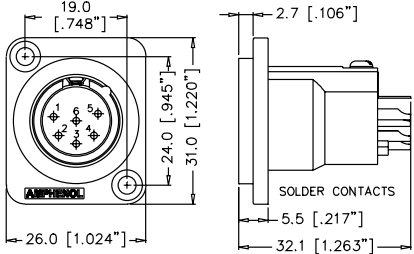

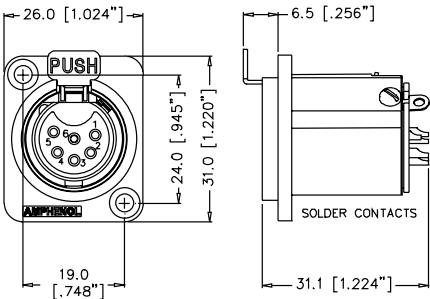

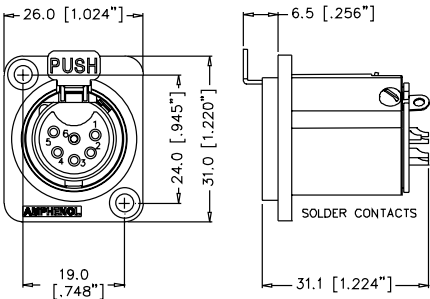

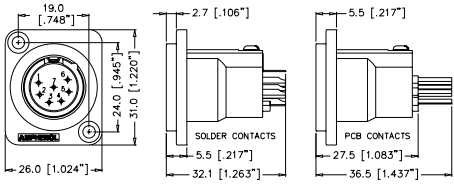

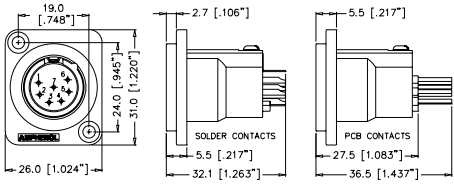

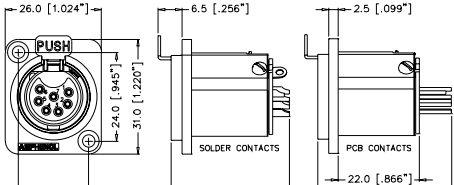

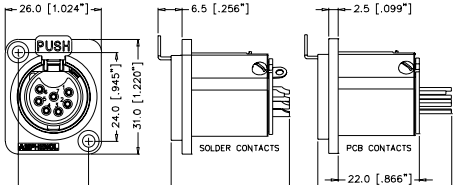
# XLR Connectors

## AC "Z" Series Chassis Mount

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AC4MDZ</a>
			Bulk Pack	<a href="#">AC4MDZ BULK</a>
		XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AC4MDZB</a>
			Gold Plated Contacts	<a href="#">AC4MDZB-AU</a>
		XLR 4 pole female, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AC4FDZ</a>
			Bulk Pack	<a href="#">AC4FDZ BULK</a>
		XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AC4FDZB</a>
			Gold Plated Contacts	<a href="#">AC4FDZB-AU</a>
		XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AC5MDZ</a>
			Bulk Pack	<a href="#">AC5MDZ BULK</a>
		XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AC5MDZB</a>
			Gold Plated Contacts	<a href="#">AC5MDZB-AU</a>
		XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AC5FDZ</a>
			Bulk Pack	<a href="#">AC5FDZ BULK</a>
		XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AC5FDZB</a>
			Gold Plated Contacts	<a href="#">AC5FDZB-AU</a>

# XLR Connectors

## AC "Z" Series Chassis Mount

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AC6AMDZ</a>
			Bulk Pack	<a href="#">AC6AMDZ BULK</a>
		XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AC6AMDZB</a>
			Gold Plated Contacts	<a href="#">AC6AMDZB-AU</a>
		XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	<a href="#">AC6AFDZ</a>
			Bulk Pack	<a href="#">AC6AFDZ BULK</a>
		XLR 6A pole female, D Flange, Machined contacts, Black Finish	Standard	<a href="#">AC6AFDZB</a>
			Gold Plated Contacts	<a href="#">AC6AFDZB-AU</a>
		XLR 7 pole male, D Flange, Gold Plated Machined contacts, Nickel Finish	Standard	<a href="#">AC7MDZ</a>
			Vertical PCB	<a href="#">AC7MDZV</a>
			Bulk Pack	<a href="#">AC7MDZ BULK</a>
		XLR 7 pole male, D Flange, Gold Plated Machined contacts, Black Finish	Standard	<a href="#">AC7MDZB</a>
			Vertical PCB	<a href="#">AC7MDZVB</a>
		XLR 7 pole female, D Flange, Gold Plated Machined contacts, Nickel Finish	Standard	<a href="#">AC7FDZ</a>
			Vertical PCB	<a href="#">AC7FDZV</a>
			Bulk Pack	<a href="#">AC7FDZ BULK</a>
		XLR 7 pole female, D Flange, Gold Plated Machined contacts, Black Finish	Standard	<a href="#">AC7FDZB</a>
			Vertical PCB	<a href="#">AC7FDZVB</a>

# XLR Connectors

## AC "Z" Series Chassis Mount



### 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
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 32.1 [1.265"]	XLR male, Narrow flange, Machined contacts	3	<a href="#">AC3MMPNZ</a>
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 32.1 [1.265"]	XLR male, Narrow flange, Stamped contacts,	3	<a href="#">AC3MPNZ</a>
				4	<a href="#">AC4MPNZ</a>
				5	<a href="#">AC5MPNZ</a>
				6	<a href="#">AC6AMPNZ</a>
				7	<a href="#">AC7MPNZ</a>
		27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"]	XLR male, Wide flange, Machined contacts	3	<a href="#">AC3MMP</a>
		27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 32.5 [1.278"]	XLR male, Wide flange, Stamped contacts	3	<a href="#">AC3MP</a>
				4	<a href="#">AC4MP</a>
				5	<a href="#">AC5MP</a>
				6	<a href="#">AC6AMP</a>
				7	<a href="#">AC7MP</a>
		27.2 [1.070"] 3.5 [.138"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 2.5 [.098"] 31.0 [1.220"]	XLR female, Wide flange, Stamped contacts	3	<a href="#">AC3FPZ</a>
				4	<a href="#">AC4FPZ</a>
				5	<a href="#">AC5FPZ</a>
				6	<a href="#">AC6AFPZ</a>
				7	<a href="#">AC7FPZ</a>

\*Black finish available on special request please contact factory.

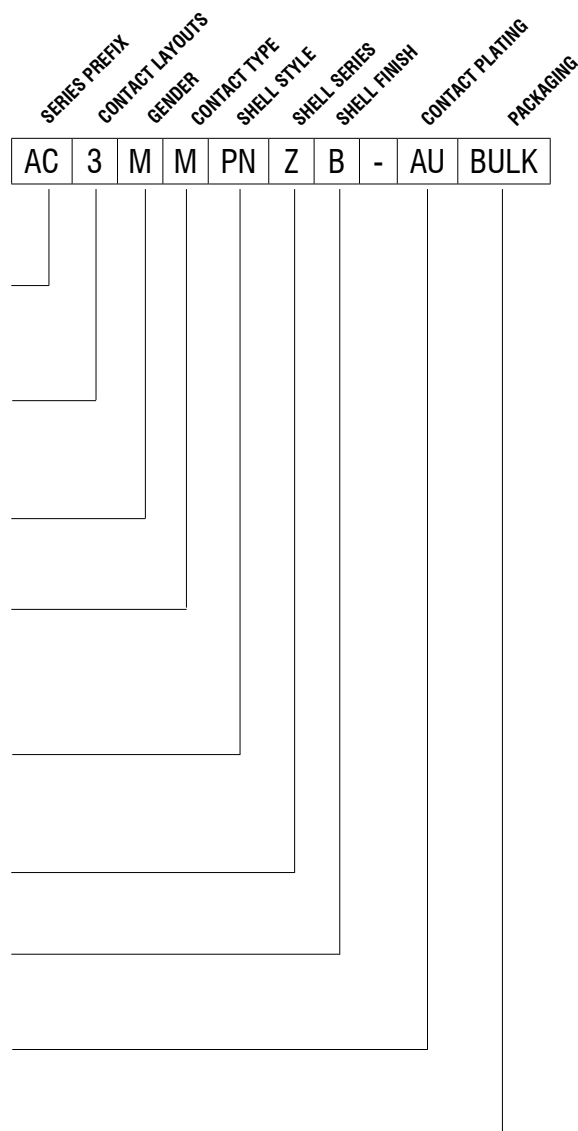


# PART NUMBER BREAKDOWN

## 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.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUTS</b>	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
	7	=	7 Contacts
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>MACHINED CONTACTS<sup>1</sup></b>	Blank	=	Stamped Contacts
	M	=	Machined Contacts (Applicable 3 male pin contacts only)
<b>SHELL STYLE</b>	D	=	Small Flange (front or rear mounting)
	P	=	Large Shell with Wide Flange
	PN	=	Large Shell with Narrow Flange (male only)
<b>SHELL SERIES</b>	Blank	=	Male P Shell Style Only
	Z	=	Metal Chassis Series
<b>SHELL FINISH<sup>2</sup></b>	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
<b>CONTACT PLATING<sup>3</sup></b>	Blank	=	Standard Plating (Silver or Tin - refer to Standard Data)
	AU	=	Gold Plated
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed



### Note:

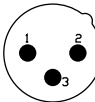
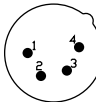
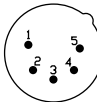
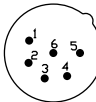
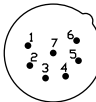
<sup>1</sup> 4 - 7 contact connectors have machined contacts and grounding as standard. They are not available in stamped contacts.

<sup>2</sup> Ground contacts are not supplied with the black polyester finish shell option.

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

<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
	Contact Arrangement (Front view of pin inserts)					
	Termination	Solder Bucket / Printed Circuit Board (PCB)				
	Max. Wire Gauge - Stranded wire:					
	Solder	14AWG	16AWG	18AWG	18AWG	20AWG
	Printed Circuit Board - PCB	N/A	N/A	N/A	N/A	N/A
ELECTRICAL CHARACTERISTICS	Flammability rating of plastics	UL94V-0				
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU				
	Service Voltage RMS	133V <sup>1)</sup>				
	Test Voltage AC RMS	1400V				
	Current carrying capacity:					
	Solder	15A	10A	7.5A	7.5A	5A
CLIMATIC CHARACTERISTICS	Printed Circuit Board (PCB)	15A	10A	7.5A	7.5A	5A
	Typical Contact Resistance	≤3mΩ				
MECHANICAL CHARACTERISTICS	Insulation Resistance	≥1000MΩ				
	Protection Class	IP40				
MATERIALS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)				
	Weight - Metal <sup>2)</sup>	31g (0.068lb)	32g (0.070lb)	33g (0.072lb)	33g (0.072lb)	33g (0.072lb)
	Mechanical Operations	1000 mating cycles				
MATERIALS	Connector Shell	Diecast Zinc Alloy				
	Shell Finish	Satin Nickel or Black Polyester				
	Insulators	PA66 30% Glass Filled Resin				
	Male Contact					
	Stamped Solder and PCB-(Material/Plating)	Phosphor Bronze / Silver or Gold (optional)				
	Machined Solder-(Material/Plating)	Brass / Silver or Gold (optional)				
	Female Contact					
	Stamped Solder and PCB-(Material/Plating)	Phosphor Bronze / Tin or Gold (optional)				
	Machined Solder-(Material/Plating)	Brass / Silver or Gold (Optional)				

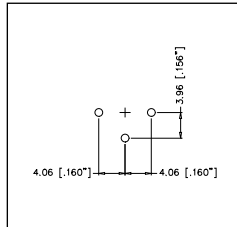
<sup>1)</sup> Not suitable for domestic applications above 50V

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

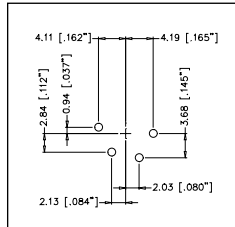
# AC / AX SERIES CHASSIS METAL “Z”

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

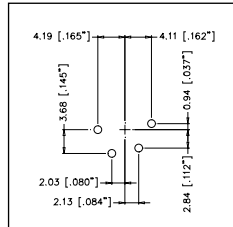
○  $\varnothing 1.2\text{mm}(.05")$  + Panel Cutout CL



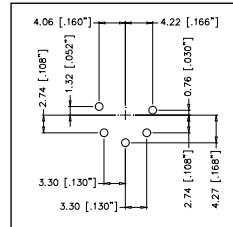
**AC3MM\*ZV**



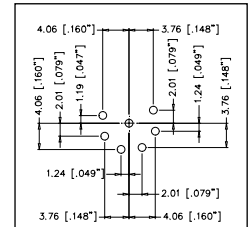
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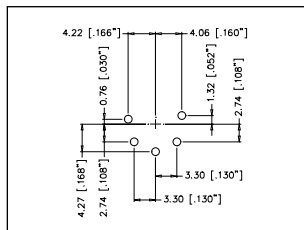
**AC4M\*ZV**



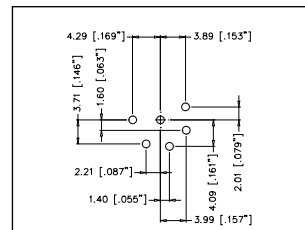
**AC5F\*ZV**



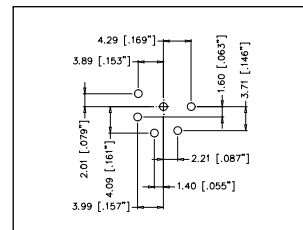
**AC7M\*ZV**



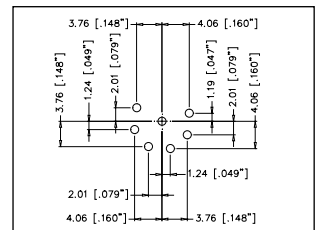
**AC5M\*ZV**



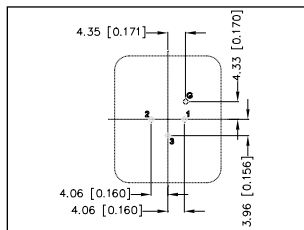
**AC6AF\*ZV**



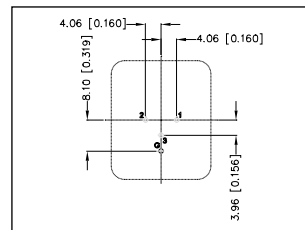
**AC6AM\*ZV**



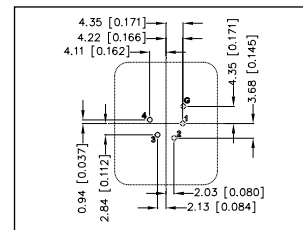
**AC7F\*ZV**



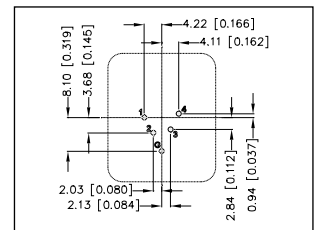
**AX3FD**



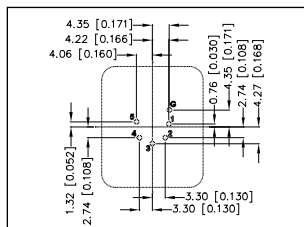
**AX3MD**



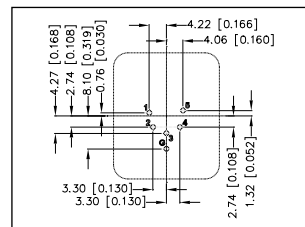
**AX4FD**



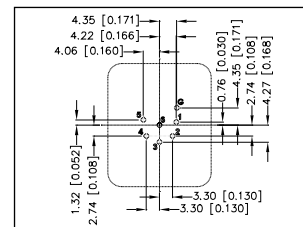
**AX4MD**



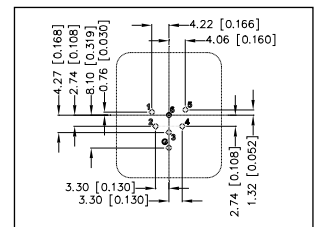
**AX5FD**



**AX5MD**

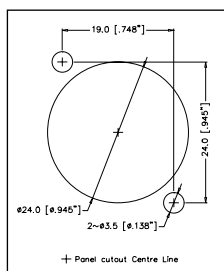


**AX6AFD**

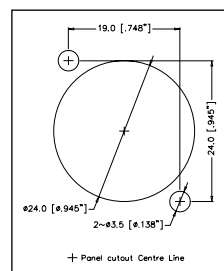


**AX6AMD**

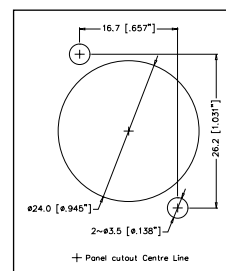
## PANEL CUTOUT DIMENSIONS FRONT VIEW



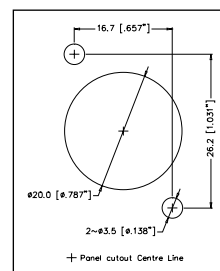
**AC\*FDZ / AX\*FD**



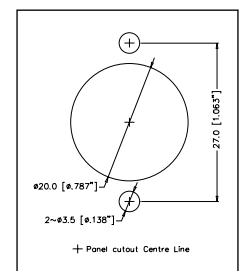
**AC\*MDZ / AX\*MD**



**AC\*FPZ**



**AC\*MP**



**AC\*MPNZ**

# XLR Connectors

## AC Series PCB Chassis Mount



## 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

- 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.
- 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.

# XLR Connectors

## AC Series PCB Chassis Mount (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](#)


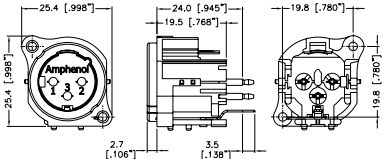

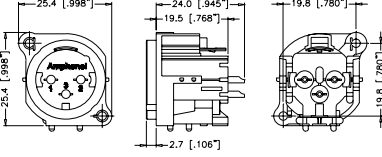

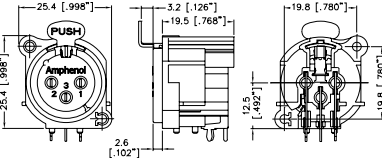

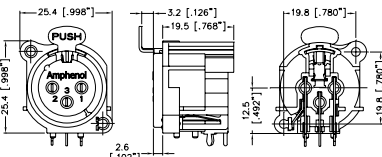

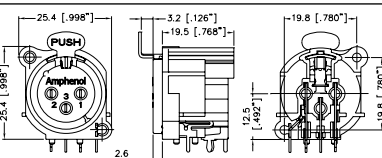

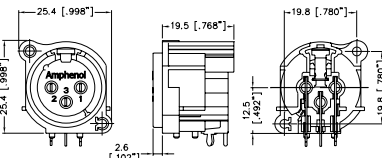

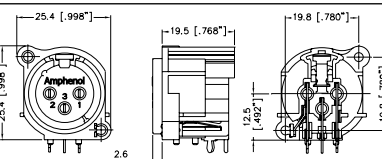

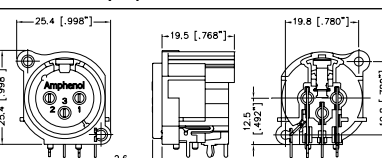

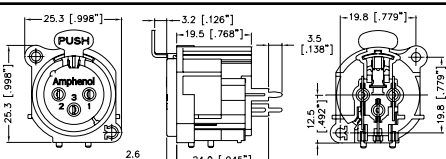

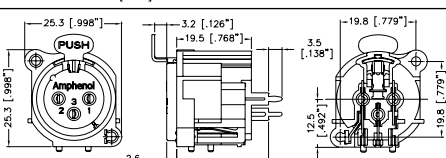
**Panel Cutouts:** [Page 41](#)

**Recommended Fastener:** [Page 133](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
		25.4 [.998"] 19.5 [.768"] 19.8 [.780"] 2.7 [.106"] 12.5 [.492"] 19.8 [.780"]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAH-AU-PRE
		25.4 [.998"] 19.5 [.768"] 19.8 [.780"] 2.7 [.106"] 12.5 [.492"] 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"] 19.5 [.768"] 19.8 [.780"] 2.7 [.106"] 12.5 [.492"] 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"] 19.8 [.780"] 2.7 [.106"] 12.5 [.492"] 19.8 [.780"]	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"] 24.0 [.945"] 19.5 [.768"] 19.8 [.780"] 2.7 [.106"] 3.5 [.138"]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-PRE

# XLR Connectors

## AC Series PCB Chassis Mount (A Type)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-PRE
			XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MA-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-PRE
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-PRE
			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
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAHL-AU-PRE
			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
			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
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAV-AU-PRE
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAV1-AU-PRE



# XLR Connectors

## AC Series PCB Chassis Mount (A Type)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAV2-AU-PRE
			XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAVL-AU-PRE
			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
			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
			XLR 4 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC4MAH-AU-B
			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
			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
			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
			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

# XLR Connectors

## AC Series PCB Chassis Mount (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](#)    **Specifications:** [Page 39](#)

**PCB Footprints:** [Page 40](#)


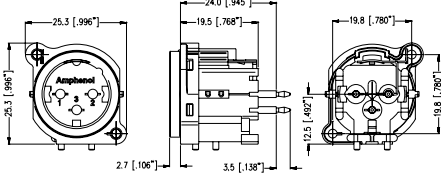

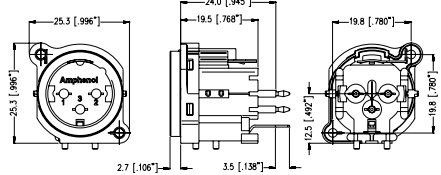

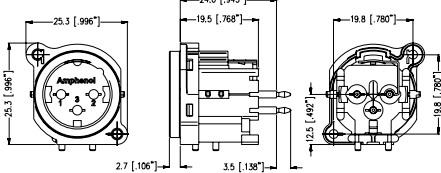

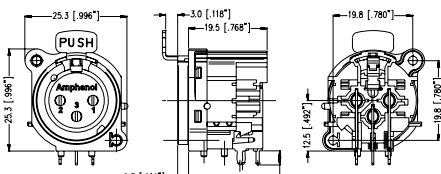

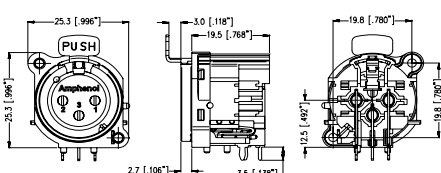

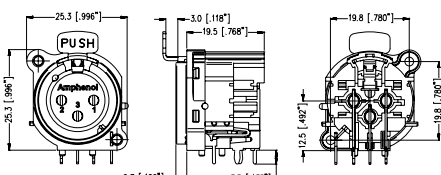

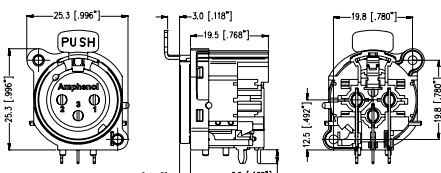

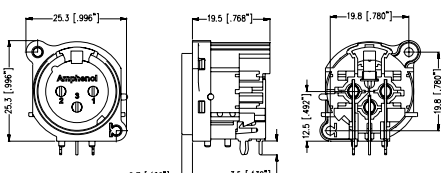
**Panel Cutouts:** [Page 41](#)

**Recommended Fastener:** [Page 133](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBH-AU-PRE
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBH1-AU-PRE
			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
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBH3-AU-PRE
			XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBHL-AU-PRE
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBV-AU-PRE


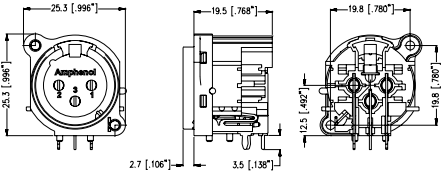

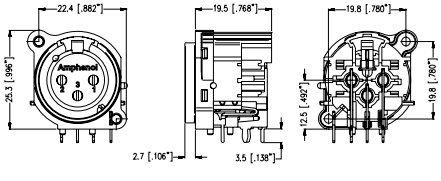

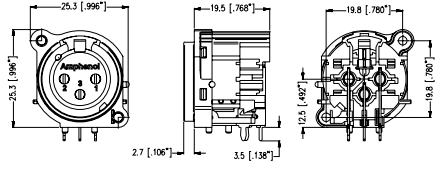

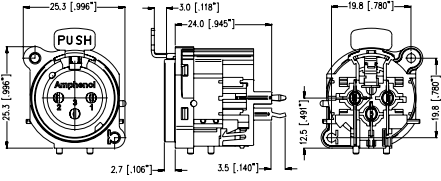

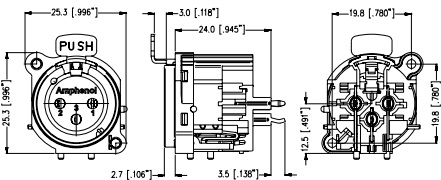

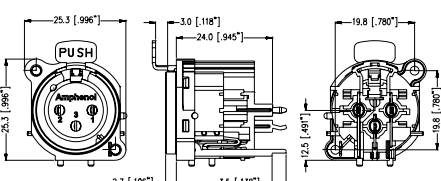

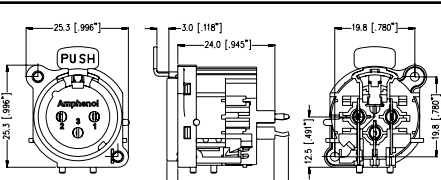

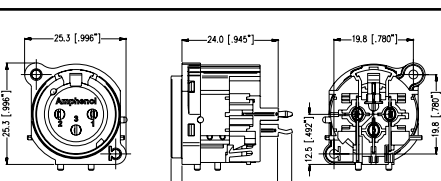
# XLR Connectors

## AC Series PCB Chassis Mount (B Type)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBV1-AU-PRE
			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
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  Mating connector shell to Pin 1	Nickel Finish	AC3MBV3-AU-PRE
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3FBH-AU-PRE
			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
			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
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish	AC3FBH3-AU-PRE
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3FBHL-AU-PRE

# XLR Connectors


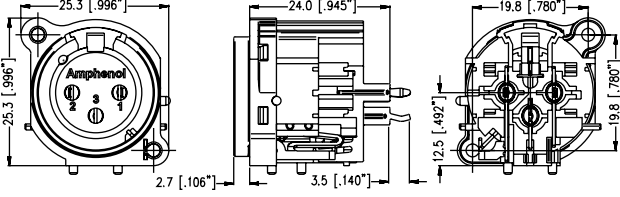

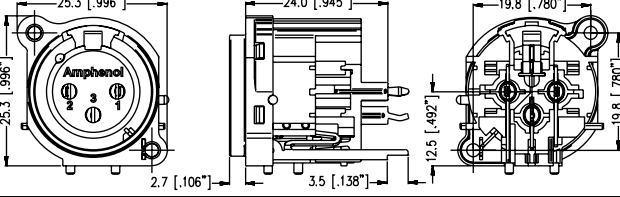

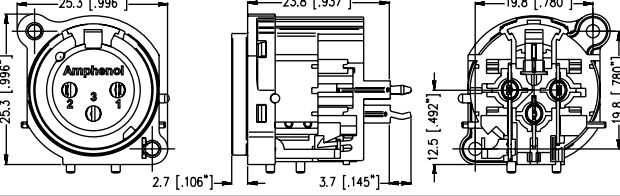

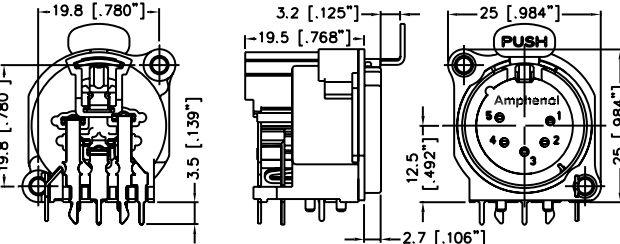

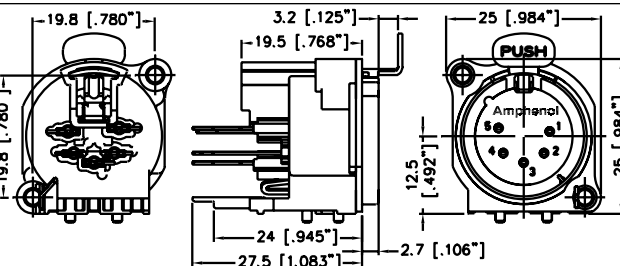

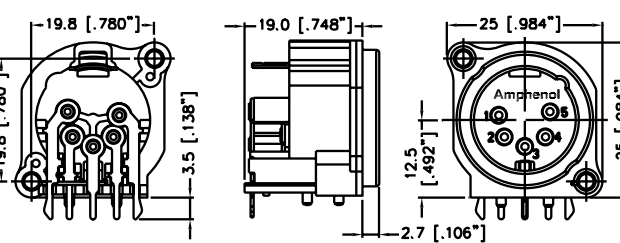

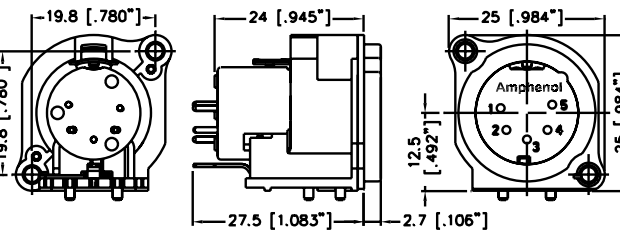
## AC Series PCB Chassis Mount (B Type)

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	FINISH	PART NUMBER
		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
		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
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish	AC3FBHL3-AU-PRE
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3FBV-AU-PRE
		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
		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
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish	AC3FBV3-AU-PRE
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3FBVL-AU-PRE



# XLR Connectors

## AC Series PCB Chassis Mount (B Type)

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	FINISH	PART NUMBER
		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
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack  Mating connector shell to Chassis - Pin 1 sep. Ground.	Nickel Finish	AC3FBVL2-AU-PRE
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish	AC3FBVL3-AU-PRE
		XLR 5 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5FBH-AU-PRE
		XLR 5 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5FBV-AU-PRE
		XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5MBH-AU-PRE
		XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5MBV-AU-PRE

# XLR Connectors

AC Series PCB Chassis Mount

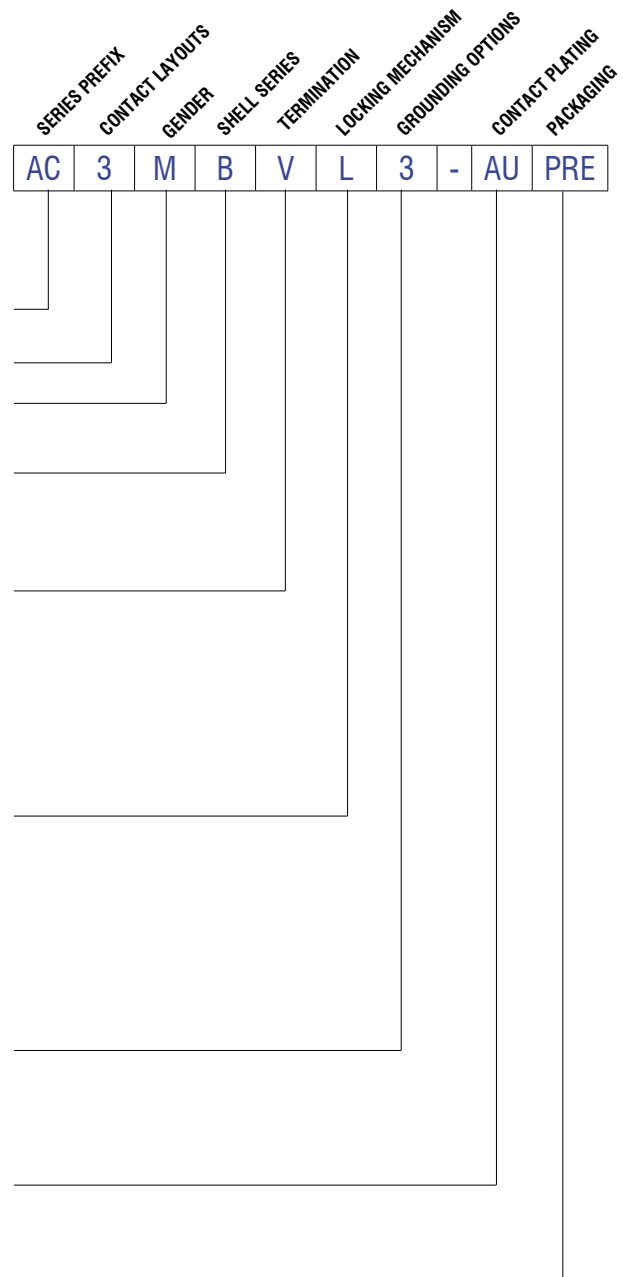
## PART NUMBER BREAKDOWN

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.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT</b>	3	=	3 Contact only
<b>GENDER</b>	M	=	Male Socket Contacts
<b>SHELL SERIES</b>	A B	= =	A Type B Type
<b>TERMINATION</b>	H V Blank	= = =	Horizontal Printed Circuit Board Vertical Printed Circuit Board Solder Bucket Contacts
<b>MOUNTING FLANGE FINISH (B TYPE ONLY)</b>	Blank	=	Nickel
<b>LOCKING MECHANISM</b>	Blank L	= =	Latching Latchless
<b>GROUNDING LINK OPTIONS</b>	Blank 1 2 3 4	= = = = =	No Ground Link Pin 1 to Chassis to mating connector shell Mating Connector shell to Chassis, Pin 1 to separate ground Mating connector to Pin 1 Mating connector to Shell to Chassis to PCB, Pin 1 separate ground
<b>CONTACT PLATING</b>	AU AG	= =	Gold Plated Contacts Silver Plated Contacts (Non-Standard)
<b>PACKAGING</b>	PRE PRD	= =	Bulk Packed Disassembled push latch



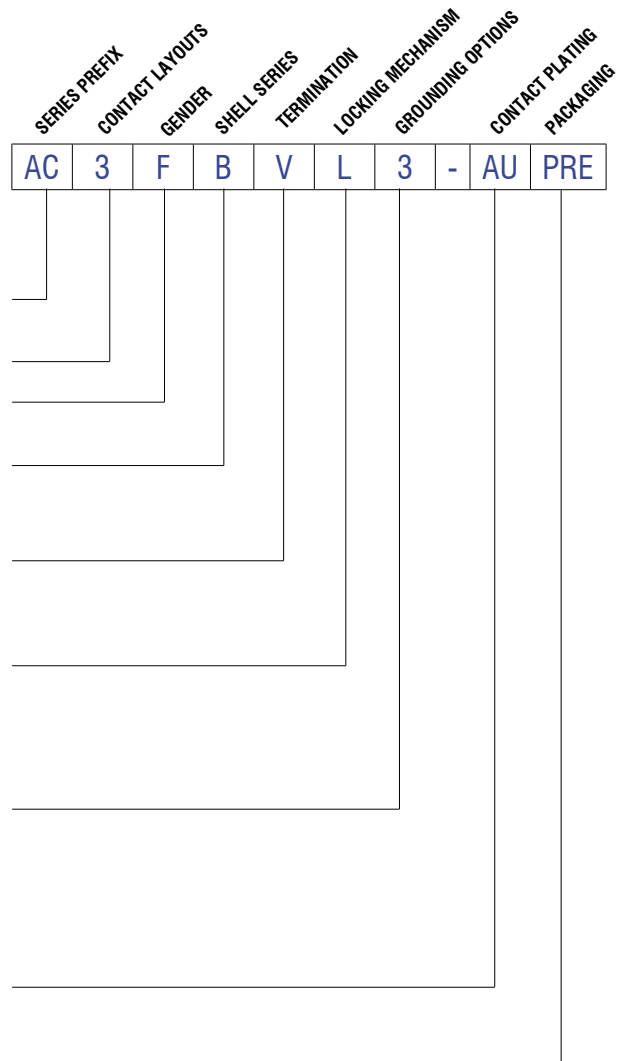


# PART NUMBER BREAKDOWN

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

E. G. **AC3MAVL3-AU B**  
**AC** (series prefix), **3** contacts, **F**emale, **A** Type, **V**ertical Printed Circuit Board, **L**atchless, **3** (Pin 1 to Chassis Grounding), - **AU** (Gold Plated Contacts), **PRE** Bulk Packaged.

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

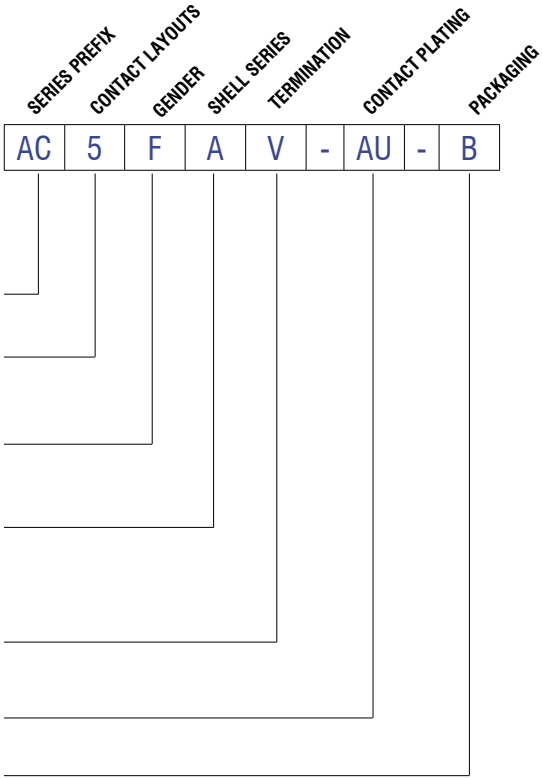


PART NUMBER BREAKDOWN




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

E. G . **AC5FAV-AU-B**  
**AC** (series prefix), **5** contacts, **F**emale, **A** Type, **V**ertical Printed Circuit Board, **AU**  
(Gold Plated Contacts) - **B**ulk Packaged.

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



# STANDARD DATA AC SERIES A AND B TYPE CHASSIS

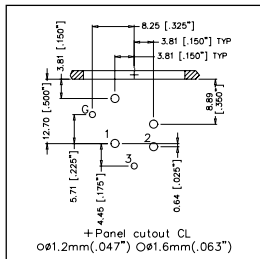
		VALUE		
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	3	4	5
	Contact Arrangements (Front view of pin insert)			
	Termination	Printed Circuit Board (PCB)		
	Flammability rating of plastics	UL94V-0		
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU		
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS	133V <sup>1</sup>		
	Test Voltage AC RMS	1500V		
	Current carrying capacity	6A		3A
	Typical Contact Resistance	≤5mΩ		
	Insulation Resistance (initial)	≥2GΩ		
	Insulation Resistance (after damp heat test)	≥1GΩ		
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40		
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)		
<b>MECHANICAL CHARACTERISTICS</b>	Weight <sup>2</sup>	14g (0.030lb)		
	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 Tri-rondular configuration		
	Fastening B Type Connectors <sup>3</sup>	Self-Tapping screw M2.5		
<b>MATERIALS</b>	Connector Flange - B-Type	Diecast Zinc Alloy		
	Flange Finish - B-Type	Nickel		
	Insulators	PA6.6+25% glass fibre reinforced, UL94V-0		
	Male Contact Material	Brass		
	Male Contact Plating	0.05μm gold over 2μm nickel		
	Female Contact Material	Bronze		
	Female Contact Plating	0.05μm gold over 2μm nickel		
	Latch lock and Spring	Spring Steel		
	Ground element	Spring Steel		

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

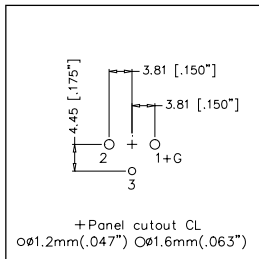
<sup>2</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

<sup>3</sup> Refer to page 133

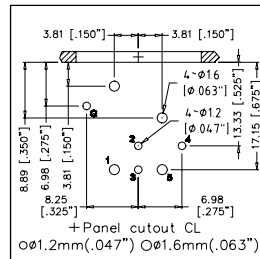
# AC SERIES A AND B TYPE CHASSIS PCB FOOTPRINTS - CONNECTOR SIDE OF PCB



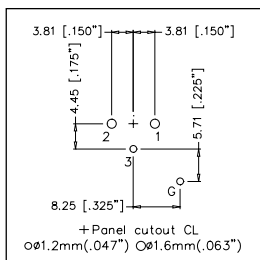
**AC3FAH2  
AC3FBH2**



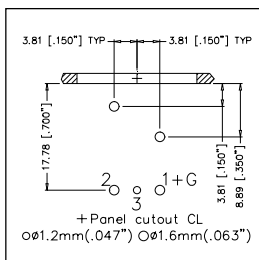
**AC3FAV1  
AC3FAV3  
AC3FBV1  
AC3FBV3  
AC3FAV  
AC3FBV**



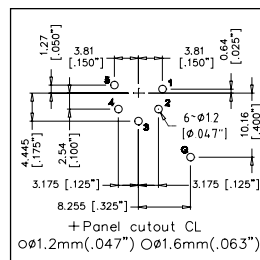
**AC5FAH**



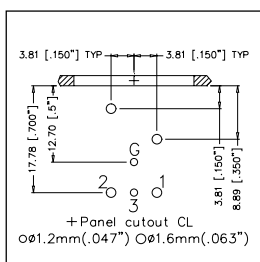
**AC3FAV2  
AC3FBV2**



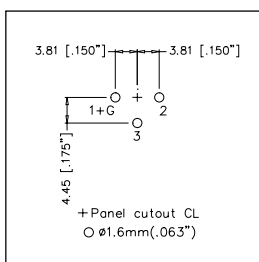
**AC3MAH1  
AC3MAH3  
AC3MBH1  
AC3MBH3  
AC3MAH  
AC3MBH  
AC3MBHL**



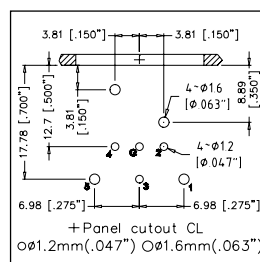
**AC5FAV**



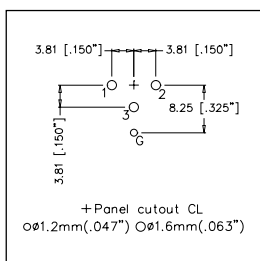
**AC3MAH2  
AC3MAH4  
AC3MBH2**



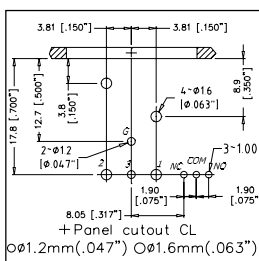
**AC3MAV1  
AC3MAV3  
AC3MBV1  
AC3MBV3  
AC3MAV  
AC3MBV**



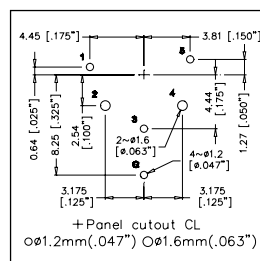
**AC5MAH**



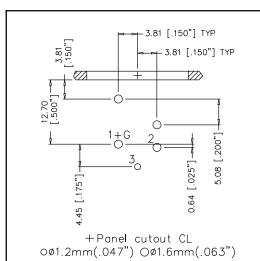
**AC3MAV2  
AC3MAV4  
AC3MBV2**



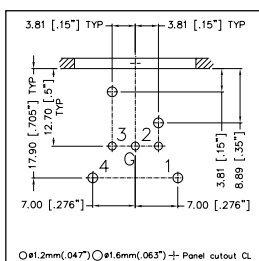
**AC3MAH4SWB**



**AC5MAV**



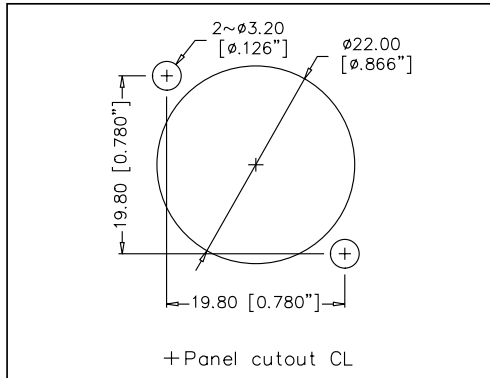
**AC3FAH1  
AC3FAH3  
AC3FBH1  
AC3FBH3  
AC3FAH  
AC3FBH**



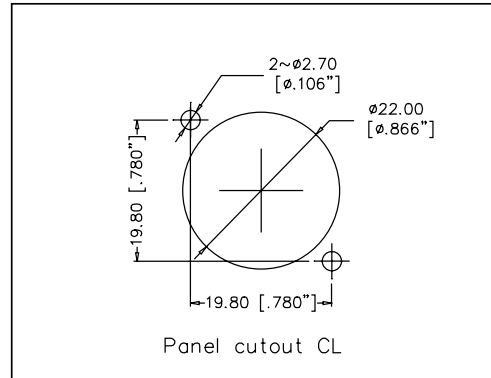
**AC4MAH**

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

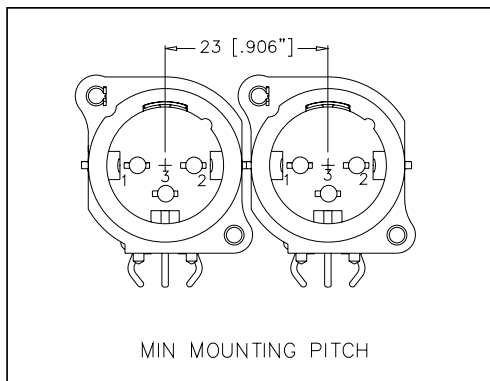
**A TYPE**



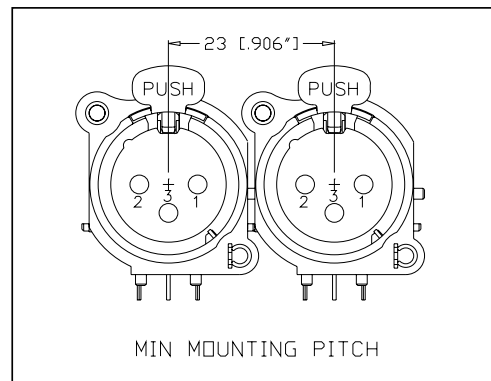
**B TYPE**



**A AND B  
TYPE MALE  
MOUNTING  
PITCH**

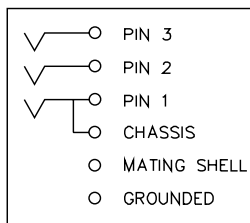


**A AND  
B TYPE  
FEMALE  
MOUNTING  
PITCH**

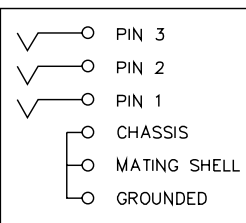


## AC3FA/BH/V SCHEMATIC CHART

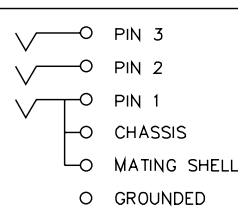
AC3FA/BH/V3-AU  
AC3FA/BH/VL3-AU



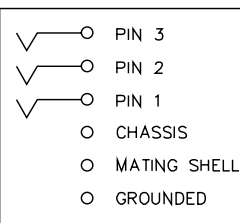
AC3FA/BH/V2-AU  
AC3FA/BH/VL2-AU



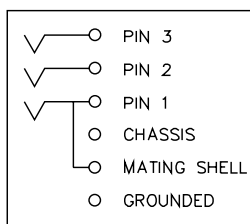
AC3FA/BH/V1-AU  
AC3FA/BH/VL1-AU



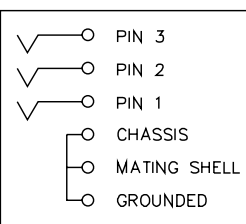
AC3FA/BH/V-AU  
AC3FA/BH/VL-AU



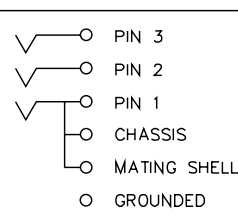
AC3MA/BH/V3-AU  
AC3MA/BH/VL3-AU



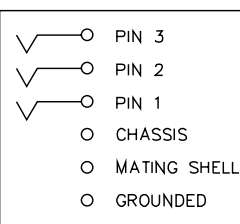
AC3MA/BH/V2/4-AU  
AC3MA/BH/VL2/4-AU



AC3MA/BH/V1-AU  
AC3MA/BH/VL1-AU



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



## XLR Connectors

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



## AC SERIES DUAL 1/4" (6.35mm) / XLR

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.
- 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.



# XLR Connectors

## 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](#)


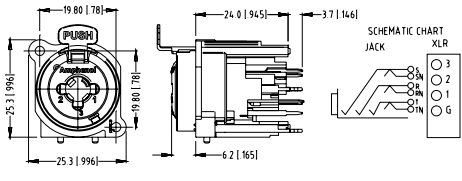

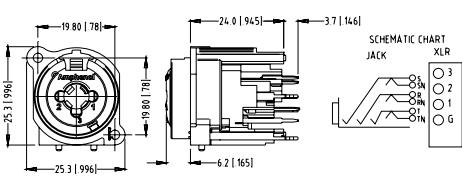

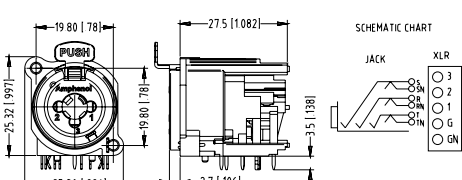

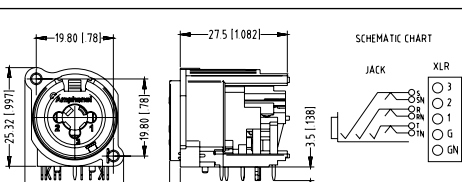

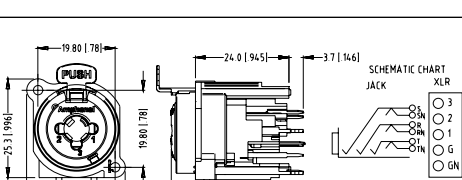

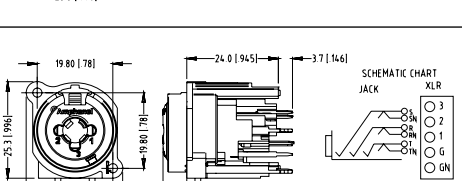
**PCB Footprints:** [Page 49](#)

**Recommended Fastener:** [Page 133](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6AH BULK
			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
			Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6AV2 BULK
			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
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9AH BULK
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AHL BULK

# XLR Connectors

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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	<a href="#">ACJC9AV2 BULK</a>
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	<a href="#">ACJC9AV2L BULK</a>
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	<a href="#">ACJC10AH BULK</a>
			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	<a href="#">ACJC10AHL BULK</a>
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	<a href="#">ACJC10AV2 BULK</a>
			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	<a href="#">ACJC10AV2L BULK</a>

# XLR Connectors

## 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](#)


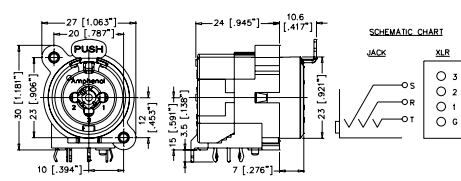

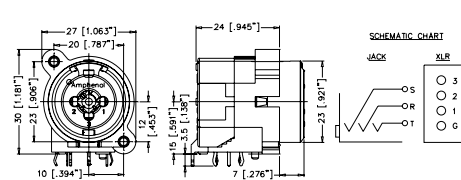

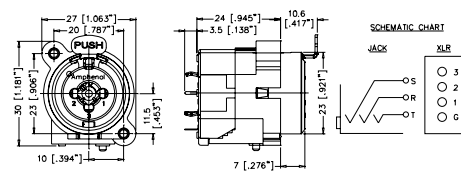

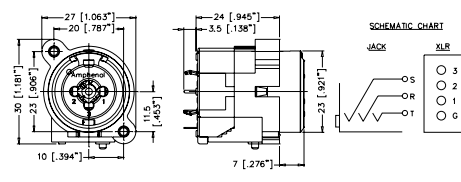

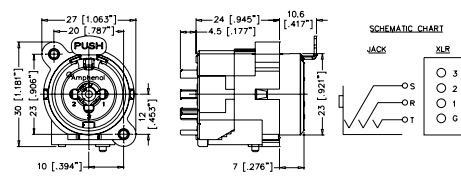

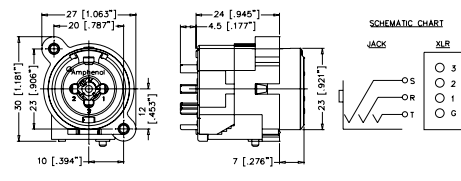

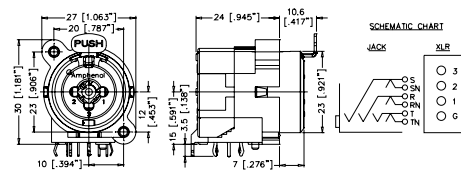

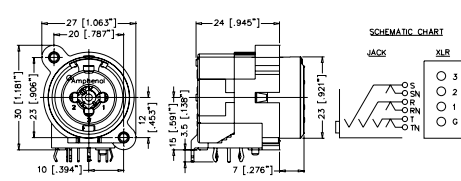
**PCB Footprints:** [Page 49](#)

**Recommended Fastener:** [Page 133](#)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC5H BULK
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5HL BULK
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC5V BULK
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5VL BULK
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC5S BULK
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC5SL BULK

# XLR Connectors


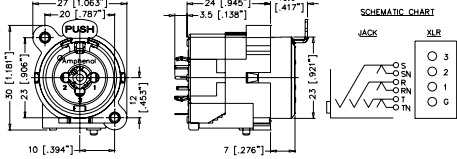

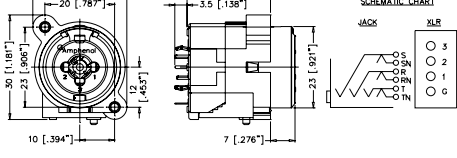

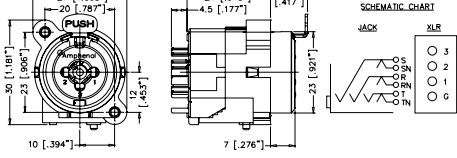

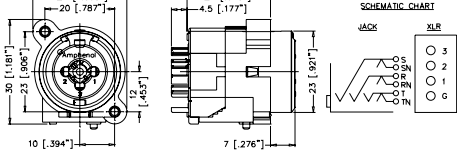

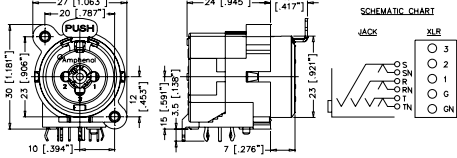

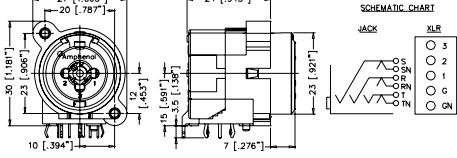

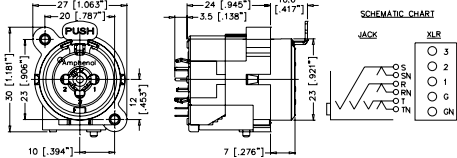

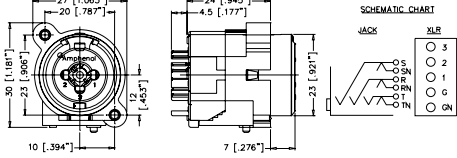
## AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6H BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6HL BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6V BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6VL BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC6S BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC6SL BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9H BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9HL BULK




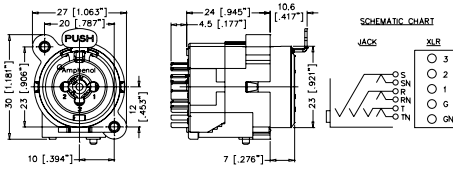

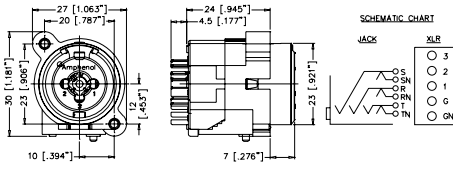
# XLR Connectors

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

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9V BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9VL BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Latching	ACJC9S BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC9SL BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10H BULK
		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
		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10V BULK
		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

XLR Connectors

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

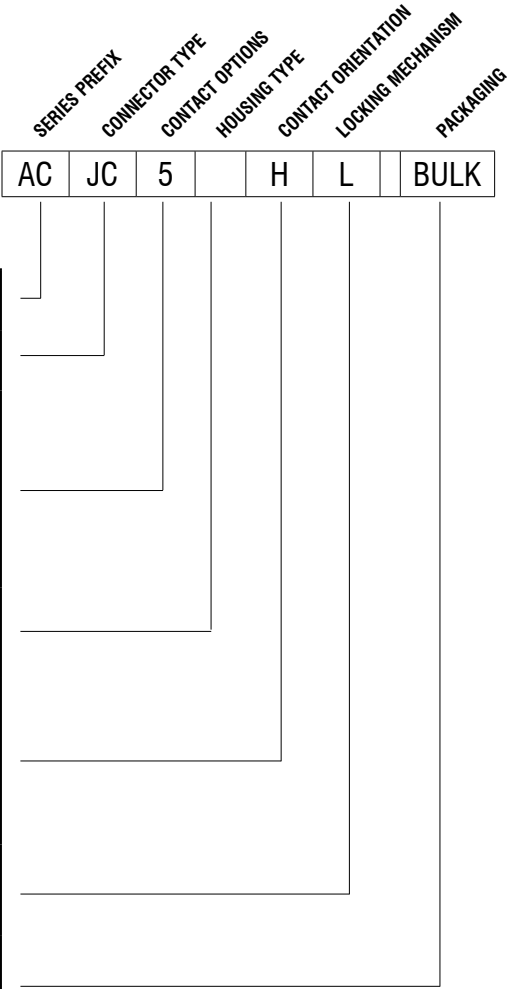
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Latching	ACJC10S BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC10SL BULK

PART NUMBER BREAKDOWN

AC SERIES THERMOPLASTIC C TYPE

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

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





+ Panel cutout CL

$\varnothing \phi 1.2\text{mm} (.047")$   $\varnothing \phi 2.1\text{mm} (.083")$

6.15 [.242"]

5.20 [.205"]

6.15 [.242"]

5.2 [.205"]

5.8 [.228"]

2

1

6.0 [.238"]

10.5 [.411"]

7-ø1.20 [.047"]

5.80 [.228"]

3

6

+ Panel cutout CL  
 ØØ1.2mm(.047")

Technical drawing of a panel cutout (CL) showing dimensions in inches and millimeters. The drawing includes a rectangular panel with a circular cutout. Dimensions are given for the panel size, cutout size, and various offsets. The panel size is 18.4 inches by 25.0 inches. The cutout size is 7.0 inches by 11.1 inches. The panel cutout is labeled CL. The cutout size is also given as 7.0 inches by 11.1 inches. The panel cutout is labeled CL. The cutout size is also given as 7.0 inches by 11.1 inches.

Panel cutout CL

oø1.2mm (.047") oø2.1mm (.083")

6.15 [242°]

5.20 [205°]

6.15 [242°]

5.2 [205°]

5.8 [228°]

6.0 [238°]

10.5 [41°]

5.80 [228°]

5.80 [228°]

7~ø1.20 [0.047°]

+ Panel cutout CL

ø1.2mm(.047°)

Figure 1 is a mechanical drawing of the front panel of the control unit. The drawing shows a rectangular panel with various mounting holes and dimensions. Dimensions are given in inches and degrees, and millimeters. Key features include a central circular feature with a diameter of 1.11 inches, a rectangular cutout at the bottom, and several mounting holes with diameters of 0.125 inches, 0.1875 inches, and 0.25 inches. The panel is labeled "Panel cutout CL".

Technical drawing of a panel cutout showing dimensions and component locations. The drawing includes a central cutout with a diameter of  $\varnothing 1.2\text{mm} (.047")$ . Dimensions are given in inches and degrees, with some values in brackets indicating alternative or specific measurements. Key dimensions include:

- Top horizontal dimensions:  $6.15 [242"]$ ,  $5.20 [205"]$ ,  $6.15 [242"]$
- Left vertical dimensions:  $3.00 [118"]$ ,  $5.8 [228"]$ ,  $5.2 [205"]$
- Right vertical dimensions:  $3.0 [118"]$ ,  $6.0 [238"]$ ,  $10.5 [411"]$
- Bottom horizontal dimensions:  $10-\varnothing 1.20 [0.047"]$ ,  $5.80 [228"]$ ,  $3.00 [118"]$ ,  $5.80 [228"]$
- Internal dimensions:  $5.0 [200"]$ ,  $3.0 [118"]$

Component locations are marked with letters: T, N, S, O, R, C, and a central cutout labeled "Panel cutout CL".

Figure 1: Detail of the connection between the column and the beam. The diagram shows a cross-section of a reinforced concrete beam-column joint. Key dimensions include: total height 25.0 [984], column width 18.4 [724], beam width 11.1 [443] and 11.0 [437], and various reinforcement spacing and cover dimensions. Reinforcement includes top bars (2.0 [78.7]), bottom bars (2.0 [78.7]), and stirrups (1.0 [39.3]). The connection is labeled 'Ponel cutout CL'.

[illegible]

Diagram of a circular panel cutout. The cutout has a diameter of  $23$  [0.906"] and a radius of  $2 \sim 3.2$  [ $\phi.126$ "]. The cutout is located at a distance of  $20$  [0.787"] from the center of the panel. The cutout is labeled  $+ \text{Panel cutout CL}$ . The cutout is also labeled  $>\phi 23.8$  [ $\phi.937$ "].

Diagram illustrating the minimum mounting pitch for two units. The distance between the centers of the two units is 27 [1.063"].

MIN. MOUNTING PITCH

Technical drawing of a panel cut out. The drawing shows a circular cut out with a diameter of  $\phi 22.0$  [  $\phi 866$  ]. The panel has a width of 19.80 [ 780 ] and a height of 19.80 [ 780 ]. There are two holes, each with a diameter of  $\phi 3.2$  [  $\phi 126$  ], located on the right side of the panel. The text "PANEL CUT OUT" and "2 HOLES" is present.

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### STANDARD DATA C TYPE CHASSIS RECEPTACLES

		VALUE	
		LOW PROFILE TYPE	STANDARD C TYPE
GENERAL CHARACTERISTICS	Number of contacts	5, 6, 9 or 10	
	Termination	Printed Circuit Board (PCB)	Printed Circuit Board (PCB) or Solder Bucket
	Flammability	UL 94HB	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	50V	
	Test Voltage AC RMS	1500V	
	Current carrying capacity	7.5A	
	Typical Contact Resistance	≤50mΩ	
	Insulation Resistance (initial)	> 0.5GΩ	
	Insulation Resistance (after damp heat test)	> 0.2GΩ	
CLIMATIC CHARACTERISTICS	Protection Class	IP40	
	Operating Temperature	-25 °C to +70 °C	
MECHANICAL CHARACTERISTICS	Weight**	9.2g (0.02lb)	14g (0.030lb)
	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	PA6.6 + 30% glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB
	Shell Finish		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	Nickel Plated	
	Ground element	Nickel Plated	Silver over Copper plated

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

\*\*\*Refer to Page 133

Rev 6 - 03/2013

# XLR Connectors

## G-Type Miniature XLR Connectors



### Features:


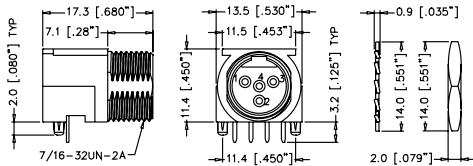

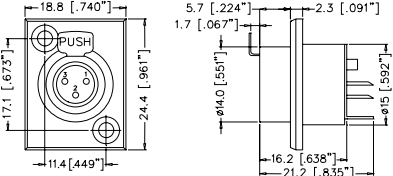
- Miniature version of the standard XLR series
- Diecast or Precision machined metal housings
- Metal cable clamp
- Precision machined pin contacts
- Stamped socket contacts
- Solder cup or Printed Circuit board contacts
- Available in 3, 4, 5 or 6 contacts
- Positive latchlock
- Flexible cable grommet

**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, Machined contacts, Nickel Finish	3 pole	AG3M
			4 pole	AG4M
			5 pole	AG5M
			6 pole	AG6M
		Female cable connector, Stamped contacts, Nickel Finish	3 pole	AG3F
			4 pole	AG4F
			5 pole	AG5F
			6 pole	AG6F
		Female cable connector with locking ring, Stamped contacts, Nickel Finish.	3 pole	AG3FL
			4 pole	AG4FL
			5 pole	AG5FL
			6 pole	AG6FL
		Male chassis connector, Machined contacts, Nickel Finish	3 pole	AG3MCC
			4 pole	AG4MCC
			5 pole	AG5MCC
			6 pole	AG6MCC
		Female chassis connector, Stamped contacts, Nickel Finish	3 pole	AG3FCE
			4 pole	AG4FCE
			5 pole	AG5FCE
			6 pole	AG6FCE
		Male chassis connector, Horizontal PCB, Machined contacts, Nickel Finish	3 pole	AG3MCCH
			4 pole	AG4MCCH
			5 pole	AG5MCCH
			6 pole	AG6MCCH
		Female chassis connector, Horizontal PCB, Stamped contacts, Nickel Finish	3 pole	AG3FCCH
			4 pole	AG4FCCH
			5 pole	AG5FCCH
			6 pole	AG6FCCH

XLR Connectors

G-Type Miniature XLR Connectors

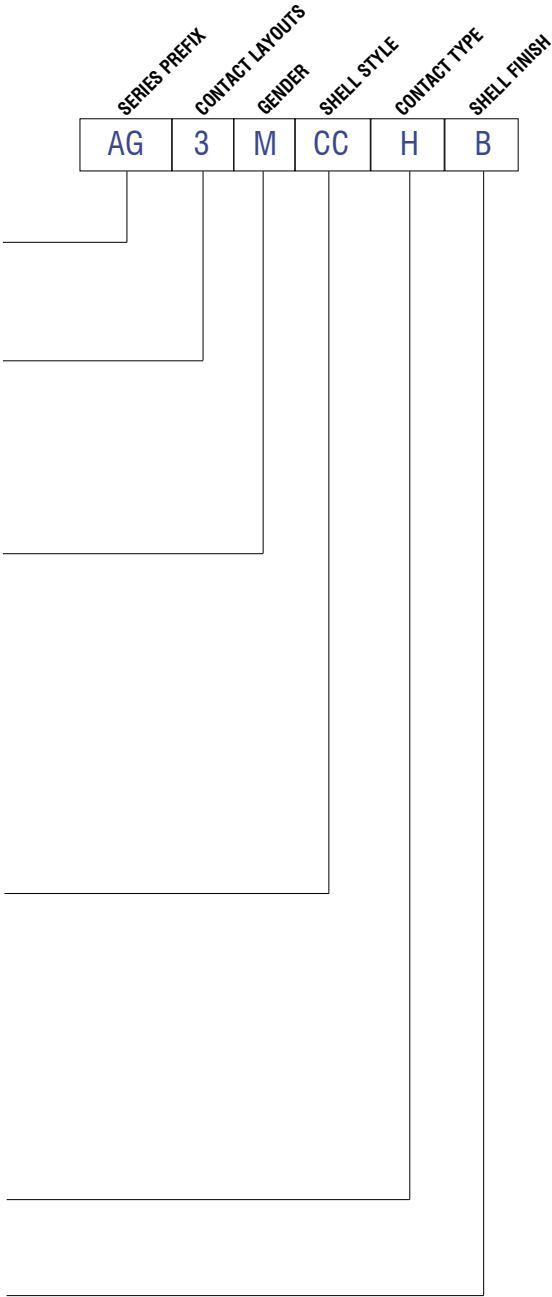
		Male chassis connector, Horizontal PCB, Machined contacts, Thermoplastic shell	4 pole	AG4MPCH
		Female chassis connector, Stamped contacts, Nickel Finish	3 pole 4 pole 5 pole 6 pole	AG3FCRV AG4FCRV AG5FCRV AG6FCRV

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	H	=	Horizontal PCB (Style CC, PC only)
	V	=	Vertical PCB (Style CR only)
	Blank	=	Nickel Plated Finish
SHELL FINISH	B	=	Black Finish



# STANDARD DATA G TYPE

		VALUE			
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	3	4	5	6
	Termination	Printed Circuit Board (PCB) or Solder Bucket			
	Max. Wire Gauge - Stranded Wire	AWG 24 - 0.5mm <sup>2</sup>			AWG 28 - 0.38mm <sup>2</sup>
	Flammability	UL94V-HB			
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU			
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	5A	5A	4A	1.2A
	Typical Contact Resistance	≤10mΩ			
	Insulation resistance (initial) After Damp Heat Test	≥510MΩ ≥10MΩ			
	Dielectric Strength	1000 V dc			250 V dc
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP00			
	Operating Temperature	-30 °C to +80 °C (-20F - +176F)			
<b>MECHANICAL CHARACTERISTICS</b>	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)		
<b>MATERIALS</b>	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		

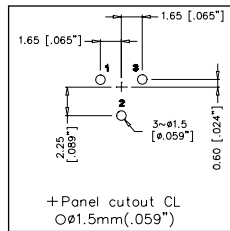
Rev 6 - 08/2019

<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.

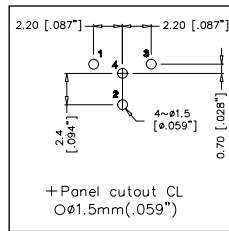
# XLR Connectors

## G-Type Miniature XLR Connectors

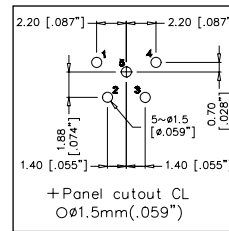
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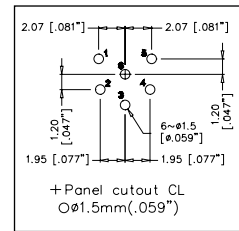
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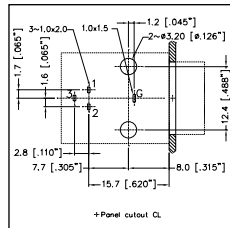
**AG4MCC**



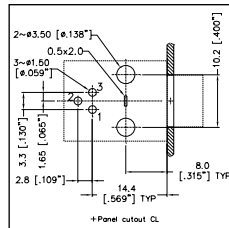
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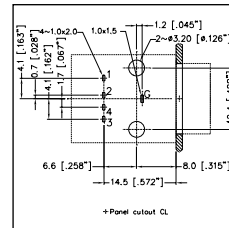
**AG6MCC**



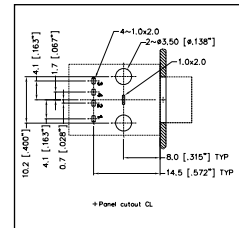
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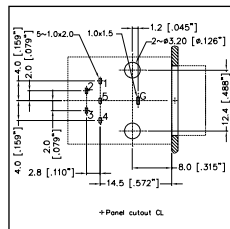
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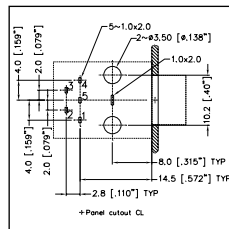
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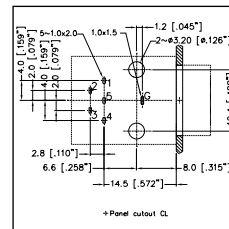
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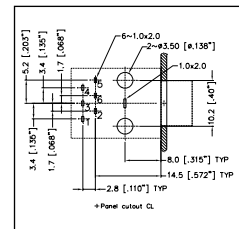
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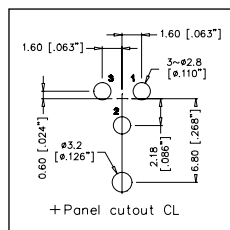
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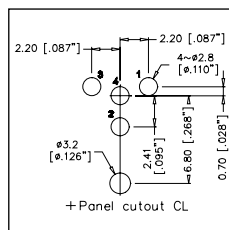
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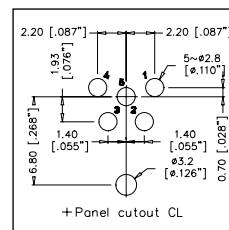
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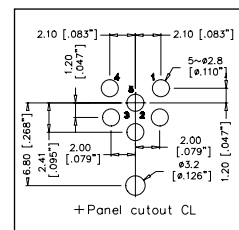
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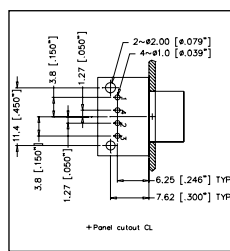
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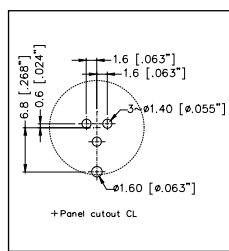
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**AG6FCRV**

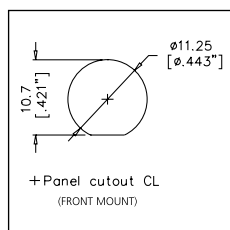


**AG4MPCH**

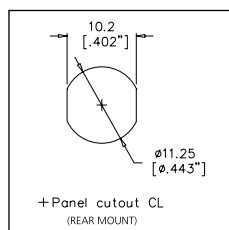


**AG3FCE**

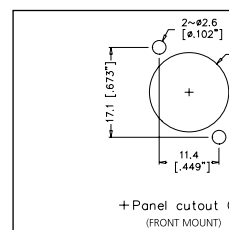
### PANEL CUTOUTS - FRONT VIEW



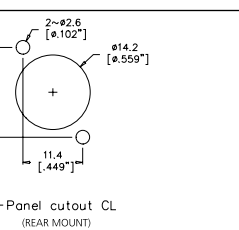
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AG4MCC  
AG5MCC  
AG6MCC**



**AG3MCCCH  
AG4MCCCH  
AG5MCCCH  
AG6MCCCH  
AG4MPCH**



**AG3FCRV  
AG4FCRV  
AG5FCRV**



**AG6FCRV**

# SP/EP/AP SERIES LOUDSPEAKER CONNECTORS



## SP Series

The SP Series are available in 2 or 4 pole chassis mount connectors. The durable thermoplastic housings are fitted with high power contacts to ensure optimal current carrying capacity. Completely intermatable with industry standard loudspeaker connections.

### Features

- High current contacts for distortion free signal.
- Cost effective durable thermoplastic shell
- Available in 2 and 4 contact arrangements.
- Overmolded cable support boot or PG gland with or without cable support strain relief.
- Quick release, vibration resistant latch lock.
- UL, cUL recognized components (File no. E339831)
- Precision machined contacts
- Thermoplastic shell

### Options

- Solder termination / Tab or Printed Circuit Board versions, Screw Terminals
- Nickel Plated Zinc Alloy shell
- Black finished Zinc Alloy shell

## EP Series

The EP Series incorporates a rugged zinc diecast shell to give it maximum durability when used in demanding situations. The EP cable connector cable flex relief design minimises cable bend stress at point of entry into the connector housing.

### Features

- High current contacts for distortion free signal.
- Tough, durable zinc diecast shell
- Cable clamp capable of supporting cables from 9mm (0.35") to 16mm (0.63") in diameter.
- Quick release, vibration resistant latch lock.
- AP & EP series are completely intermatable.
- Precision machined contacts

### Options

- Nickel Plated Zinc Alloy shell
- Black finished Zinc Alloy shell
- Available in 3, 4, 5, 6 and 8 contact arrangements

## AP Series

The AP Series Shell is manufactured from tough, durable thermoplastic, and ideal for fixed indoor installations. Both the EP and AP Series utilise the same contact and insulator components.

### Features

- High current contacts for distortion free signal.
- Cost effective durable thermoplastic shell
- Quick release, vibration resistant latch lock.
- AP & EP series are completely intermatable.
- Precision machined contacts
- Thermoplastic shell

### Options

- Available in 4, 5, 6, and 8 contact arrangements.

## Ordering Codes

We have listed the more common ordering codes in each section. 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.
- 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.



# Speaker Connectors

## SP Series



## SP SERIES

Amphenol's range of loudspeaker connectors have been further enhanced with the introduction of the SP Series. Designed to complement the popular EP/AP Series, we now offer a range of loudspeaker connectors to suit most applications. SP Series chassis connectors are available in industry standard PCB footprints with solder tabs. SP Series cable plugs are available with screw or solder terminals.

### Features:

- Quick release, vibration resistant latch lock
- 2 or 4 pole
- Solder tabs, PCB Contacts, Solder or Screw Terminals
- Chuck type or PG Gland cable clamp
- Various mounting hole options
- 30A Current rating
- Thermoplastic or Metal housing (Cable Plugs)
- UL, cUL recognized components (File no. E339831)
- Industry standard mating



**Part Number Breakdown: Page 60**

**PCB Footprints: Page 62**


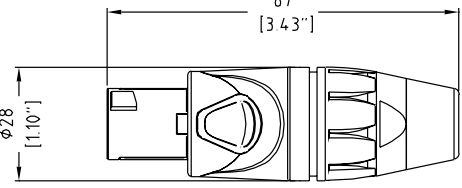

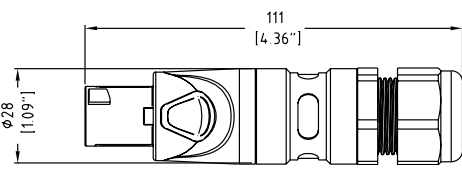

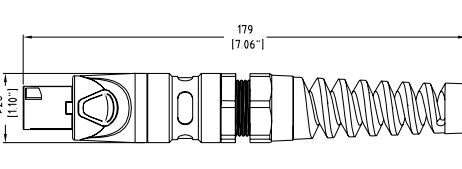

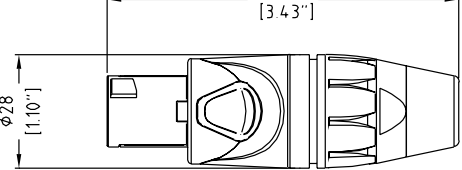

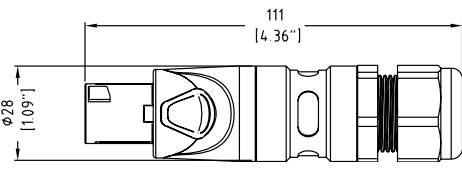

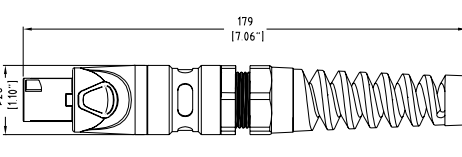
**Specifications: Page 64**

**Assembly Instructions: 63**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
			2 pole, Cable connector, Thermoplastic shell, Blue sleeve	Screw	Black	SP-2-F
				Solder	Black	SP-2-FS
			2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland	Screw	Black	SP-2-FG
				Solder	Black	SP-2-FSG
			2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-2-FL
				Solder	Black	SP-2-FSL
			2 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-2-FN
				Solder	Nickel	SP-2-FNS
				Screw	Black	SP-2-FB
				Solder	Black	SP-2-FBS
			2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-2-FNG
				Solder	Nickel	SP-2-FNSG
				Screw	Black	SP-2-FBG
				Solder	Black	SP-2-FBSG
			2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-2-FNL
				Solder	Nickel	SP-2-FNSL
				Screw	Black	SP-2-FBL
				Solder	Black	SP-2-FBSL

# Speaker Connectors

## SP Series

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
		87 [3.43"] ø28 [1.10"]	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve	Screw	Black	SP-4-F
				Solder	Black	SP-4-FS
		111 [4.36"] ø28 [1.09"]	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland	Screw	Black	SP-4-FG
				Solder	Black	SP-4-FSG
		179 [7.06"] ø28 [1.10"]	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-4-FL
				Solder	Black	SP-4-FSL
		87 [3.43"] ø28 [1.10"]	4 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-4-FN
				Solder	Nickel	SP-4-FNS
				Screw	Black	SP-4-FB
				Solder	Black	SP-4-FBS
		111 [4.36"] ø28 [1.09"]	4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-4-FNG
				Solder	Nickel	SP-4-FNSG
				Screw	Black	SP-4-FBG
				Solder	Black	SP-4-FBSG
		179 [7.06"] ø28 [1.10"]	4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-4-FNL
				Solder	Nickel	SP-4-FNSL
				Screw	Black	SP-4-FBL
				Solder	Black	SP-4-FBSL


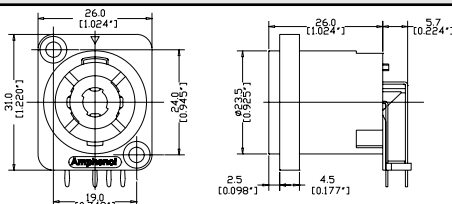

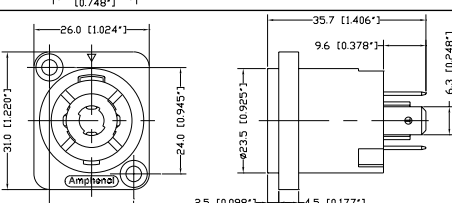

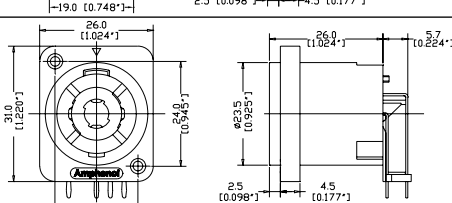

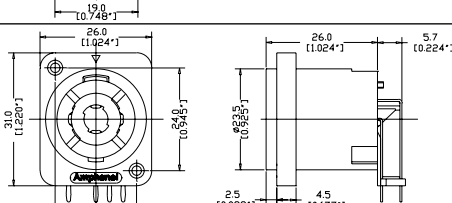

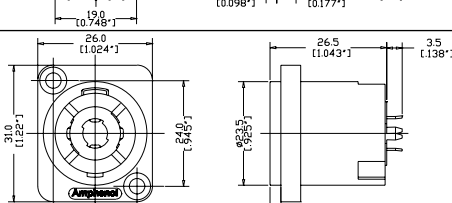

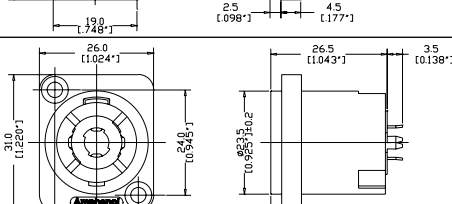

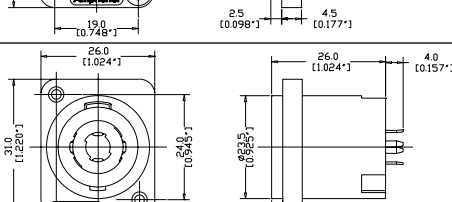

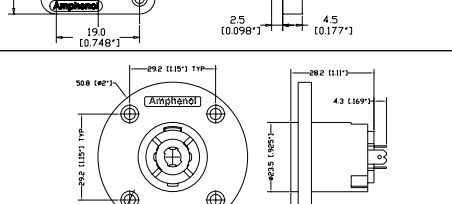
# Speaker Connectors

## SP Series

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
			2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
			2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
			Airtight 4 pole, D flange Self Tapping holes, Solder Tabs 3.16"	Black	SP-4-MDAT
			Airtight 4 pole, D flange Thru holes, Solder tabs 3/16"	Black	SP-4-MDA
			4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
			4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
			4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT

# Speaker Connectors

SP Series

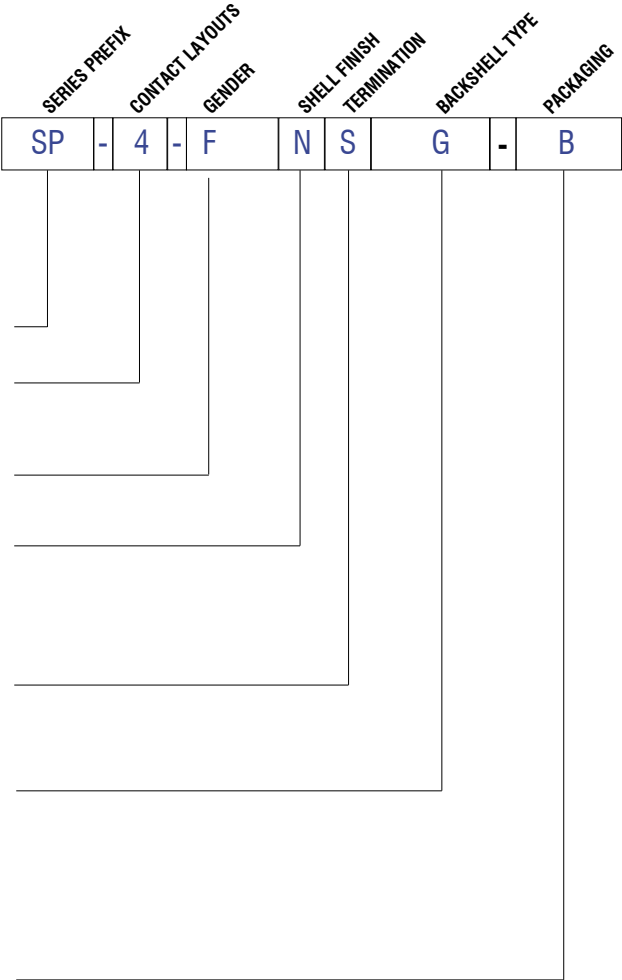
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
			4 pole, D flange, Thru holes, Solder tabs 1/4"	Black	SP-4-MDQ
			4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8
			4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
			4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
			4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
			4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8
			4 pole, EP flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MC

PART NUMBER BREAKDOWN

SP SERIES - CABLE CONNECTORS

E. G. **SP-4-FNSG**  
**SP** (Series Prefix), **4** contacts, **F** (Cable Connector), **N** (Metal Shell Nickel Finish),  
**S** (Solder Terminals), **G** (PG Gland)

SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	F	=	Cable Connector
SHELL FINISH	Blank	=	Thermoplastic - Black
	N	=	Metal - Nickel Finish
	B	=	Metal - Black Finish
TERMINATION	Blank	=	Screw Terminals
	S	=	Solder Terminals
BACKSHELL TYPE	Blank	=	Standard
	G	=	PG Gland
	L	=	PG Gland Strain Relief
PACKAGING	Blank	=	Individual Bags
	B	=	Bulk Packed
	B1	=	Supplied with small and large cable clamps

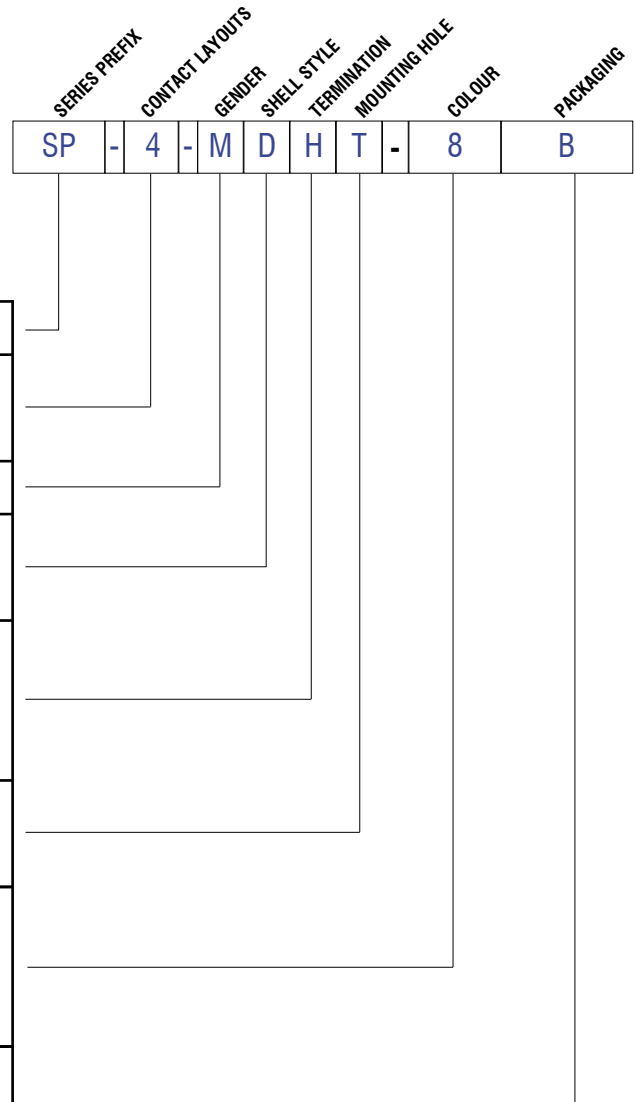


# PART NUMBER BREAKDOWN

## SP SERIES - CHASSIS CONNECTORS

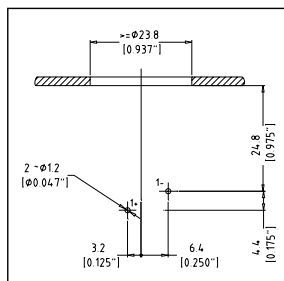
E. G . **SP-4-MDHT-8B**  
**SP** (Series Prefix), **4** contacts, **M**(Chassis Connector), **D** (D Shell), **H**orizontal Printed Circuit Board, Self Tapping mounting holes - **8** (Grey), **B**ulk Packaged.

<b>SERIES PREFIX</b>	SP	=	Series Prefix
<b>CONTACT LAYOUT</b>	2	=	2 Contacts
	4	=	4 Contacts
<b>GENDER</b>	M	=	Chassis Connector
<b>SHELL STYLE</b>	D	=	Standard 'D' Type flange
	C	=	EP Series Circular flange
<b>TERMINATION</b>	Blank	=	Solder tabs - 3/16" terminals
	Q	=	Solder tabs - 1/4" terminals
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
<b>MOUNTING HOLE</b>	Blank	=	Thru Hole
	T	=	Self Tapping
<b>SHELL COLOUR</b>	Blank	=	Black
	2	=	Red
	8	=	Grey
<b>PACKAGING</b>	Blank	=	Individual Bags
	B	=	Bulk Packed

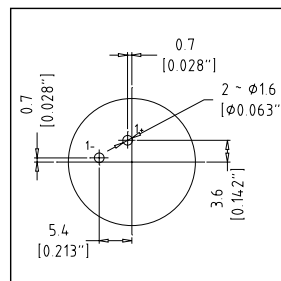


### SP SERIES

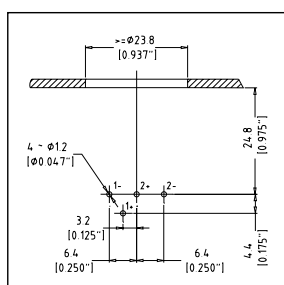
SP-2-MDH



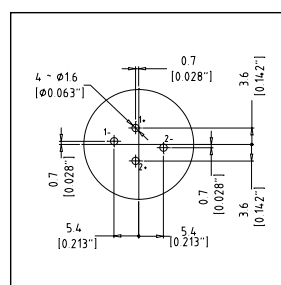
SP-2-MDV



SP-4-MDH  
SP-4-MDHT-8  
SP-4-MDHT

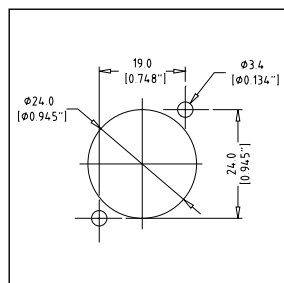


SP-4-MDV  
SP-4-MDV-2  
SP-4-MDVT-8

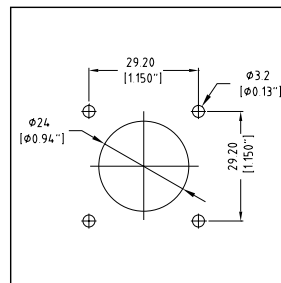


### SP SERIES PANEL CUTOUT

SP-2-MD\*\* \*  
SP-4-MD\*\* \*



SP-4-MC



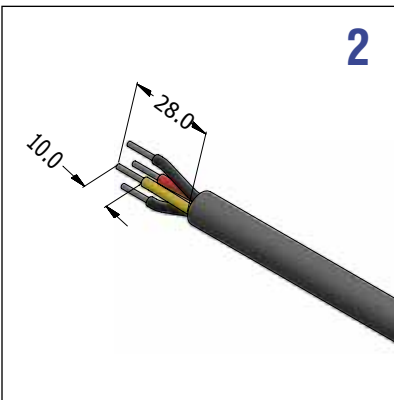


# PI 1070 ASSEMBLY INSTRUCTIONS

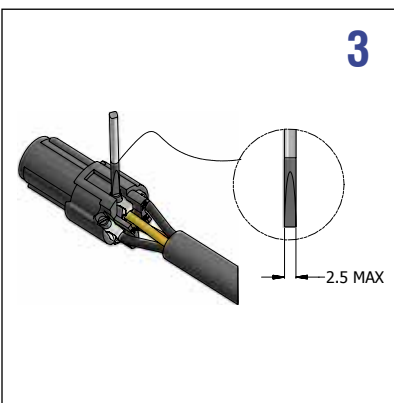
SP SERIES CABLE CONNECTOR



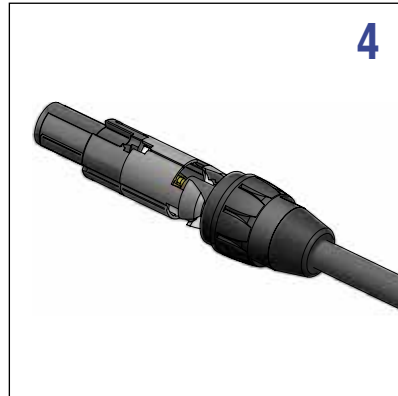
Slide the nut onto the cable



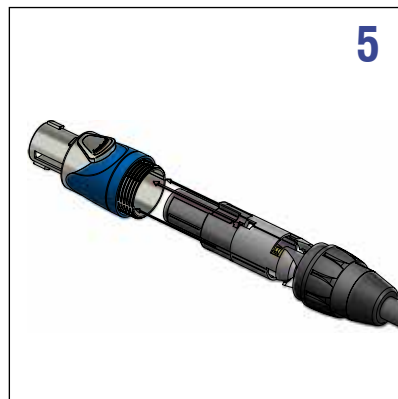
Strip the cable and twist the conductors.



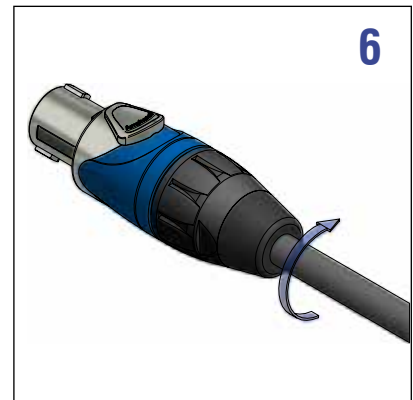
Insert the conductors into the rear of contacts on the insert. Tighten the screws to 0.35Nm (3.0 lb-in) using a flat screwdriver with tip width of 2.5mm max.



Install the cable clamp, flush to the insert making sure to align the slot as shown in the picture.



Orientate the insert and cable clamp as shown then push all together into the shell.



Thread the nut onto the shell to activate the cable clamp and close the connector assembly.

## STANDARD DATA SP SERIES CONNECTORS

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	2 or 4
	Termination (Chassis)	Printed Circuit Board (PCB) or Solder Tabs 3/16"
	Termination (Cable Plugs)	Screw or Solder Terminals
	Flammability	UL94HB
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS	133V <sup>1)</sup>
	Test Voltage AC RMS	1500V
	Current carrying capacity	20A
	Typical Contact Resistance	≤3mΩ
	Insulation Resistance (initial)	≥2GΩ
	Insulation Resistance (after damp heat test)	≥1GΩ
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class (Mated Condition)	IP20 (IP40)
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)
<b>MECHANICAL CHARACTERISTICS</b>	Weight** - Chassis Connectors	12g (0.026lb)
	Weight** - Cable Plug - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)
	Weight** - Cable Plug PG - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)
	Weight** - Cable Plug PG S/Relief - Thermoplastic - Metal	68g (0.150lb) 89g (0.196lb)
	Typical Cable retention force	200N (Subject to cable material and O.D.)
	Cable O.D range - Chuck Clamp - PG16 Gland - PG16 Gland S/Relief	2 pole 5-10mm (0.19" - 0.39") 6-12mm (0.23" - 0.47") 9-14mm (0.35" - 0.55")
		4 pole 9-14mm (0.35" - 0.55") 8-14mm (0.31" - 0.55") 9-14mm (0.35" - 0.55")
	Conductor Size - Screw Terminals - Solder Bucket	1.5mm <sup>2</sup> - 4mm <sup>2</sup> (AWG16 - AWG12) 1.5mm <sup>2</sup> - 6mm <sup>2</sup> (AWG16 - AWG10)
	Mechanical Operations	5000 mating cycles
	Connector Shell / Finish - Cable Plug Thermoplastic - Cable Plug Metal	PA66 GF30 / Black Diecast Zinc Alloy / Nickel or Black
<b>MATERIALS</b>	Insulators - Chassis - Cable Plugs	PA66 GF20 PA66 GF30
	Cable Boot / Backshell	Santoprene / PA6 GF 15
	Cable Clamp (Chuck)	P.O.M
	Cable Clamp (PG)	Polyemide / EPDM
	Sleeve	PBT
	Contact Chassis - Material / Plating	Phosphor Bronze / Silver
	Contact Cable Plug - Material / Plating	Brass / Silver

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

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

Rev 7 - 12/2020



## EP SERIES

The EP Series has set the standard in high performance speaker connectors. Apart from its durability and strength, it offers consistent superior power handling capabilities.


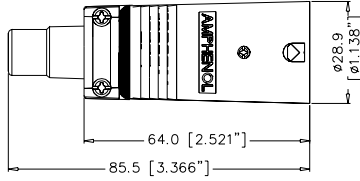
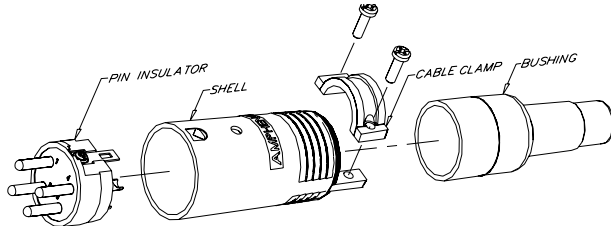

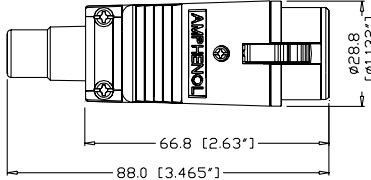
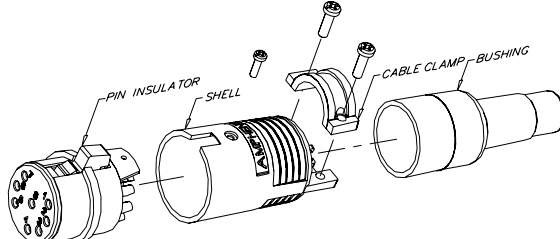
### Features:

- Solder Bucket connections.
- Precision machined contacts.
- Diecast Metal Housings
- High current contacts
- Male and female cable and chassis connectors available.

**Options:** Black Finish Shell


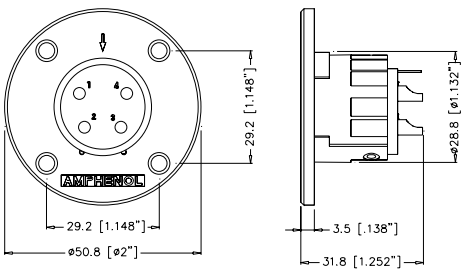

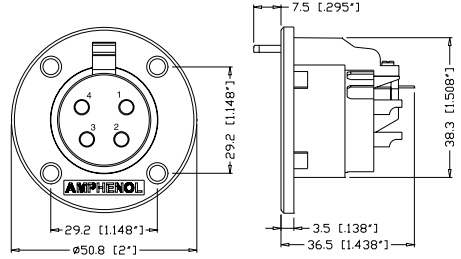
**Specifications:** [Page 68](#)

**Panel Cutouts:** [Page 69](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
  <b>ISO ASSEMBLY OF EP MALE</b>		<p>64.0 [2.521"] 85.5 [3.366"] ø28.9 [ø1.138"]</p>	<p>EP Male cable connector, Machined contacts, Metal Shell</p>	3 pole nickel finish	EP-3-12
				3 pole black finish	EP-3-12B
				4 pole nickel finish	EP-4-12
				4 pole black finish	EP-4-12B
				5 pole nickel finish	EP-5-12
				5 pole black finish	EP-5-12B
				6 pole nickel finish	EP-6-12
				6 pole black finish	EP-6-12B
				8 pole nickel finish	EP-8-12
				8 pole black finish	EP-8-12B
  <b>ISO ASSEMBLY OF EP FEMALE</b>		<p>66.8 [2.63"] 88.0 [3.465"] ø28.8 [ø1.132"]</p>	<p>EP Female cable connector, Machined contacts, Metal Shell</p>	3 pole nickel finish	EP-3-11P
				3 pole black finish	EP-3-11PB
				4 pole nickel finish	EP-4-11P
				4 pole black finish	EP-4-11PB
				5 pole nickel finish	EP-5-11P
				5 pole black finish	EP-5-11PB
				6 pole nickel finish	EP-6-11P
				6 pole black finish	EP-6-11PB
				8 pole nickel finish	EP-8-11P
				8 pole black finish	EP-8-11PB

# Speaker Connectors

## EP Series

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		EP Male chassis mount, Round Flange, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-14
			3 pole black finish	EP-3-14B
			4 pole nickel finish	EP-4-14
			4 pole black finish	EP-4-14B
			5 pole nickel finish	EP-5-14
			5 pole black finish	EP-5-14B
			6 pole nickel finish	EP-6-14
			6 pole black finish	EP-6-14B
			8 pole nickel finish	EP-8-14
			8 pole black finish	EP-8-14B
		EP Female chassis mount, Round Flange, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-13P
			3 pole black finish	EP-3-13PB
			4 pole nickel finish	EP-4-13P
			4 pole black finish	EP-4-13PB
			5 pole nickel finish	EP-5-13P
			5 pole black finish	EP-5-13PB
			6 pole nickel finish	EP-6-13P
			6 pole black finish	EP-6-13PB
			8 pole nickel finish	EP-8-13P
			8 pole black finish	EP-8-13PB



## AP SERIES

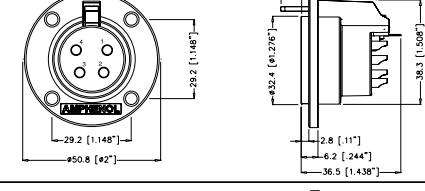
The AP Series provides the same power handling performance as the EP Series in a cost effective, yet durable Thermoplastic housing.

### Features:

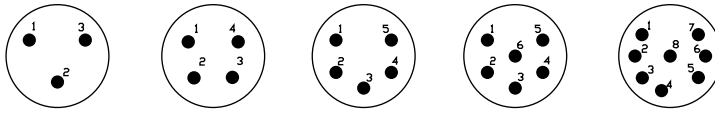
- Solder Bucket connections.
- Precision machined contacts.
- Thermoplastic Housings
- High current contacts
- Male & Female Cable and Chassis connectors available.

**Specifications:** [Page 68](#)

**Panel Cutouts:** [Page 69](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		28.8 [1.135"] 100.0 [3.937"]	AP Male cable connector, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-12 AP-5-12 AP-6-12 AP-8-12
		28.8 [1.132"] 98.7 [3.886"]	AP Female cable connector, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-11 AP-5-11 AP-6-11 AP-8-11
		29.2 [1.15"] 50.8 [2"] 32.4 [1.276"] 30.6 [1.204"] 2.8 [.11"] 6.2 [.244"] 31.8 [1.252"]	AP Male chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-14 AP-5-14 AP-6-14 AP-8-14
		29.2 [1.148"] 50.8 [2"] 32.4 [1.276"] 38.3 [1.508"] 2.8 [.11"] 6.2 [.244"] 36.5 [1.438"]	AP Female chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-13 AP-5-13 AP-6-13 AP-8-13
		29.2 [1.148"] 50.0 [1.969"] 40.0 [1.575"] 32.4 [1.276"] 30.6 [1.204"] 2.8 [.11"] 6.2 [.244"] 31.8 [1.252"]	AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-22 AP-5-22 AP-6-22 AP-8-22
		29.2 [1.148"] 50.0 [1.969"] 40.0 [1.575"] 32.4 [1.276"] 38.3 [1.508"] 2.8 [.11"] 6.2 [.244"] 36.5 [1.438"]	AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-21 AP-5-21 AP-6-21 AP-8-21

# STANDARD DATA EP/AP

		VALUE				
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6	8
	Contact Arrangements (Front view of pin insert)					
	Termination	SOLDER				
	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG
	Flammability	UL94V-0				
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU				
ELECTRICAL CHARACTERISTICS	Service Voltage RMS <sup>1)</sup>	460V	660V	200V	200V	100V
	Test Voltage AC RMS	2400V	3000V	1600V	1600V	1300V
	Current carrying capacity	20A	20A	20A	20A	15A
	Typical Contact Resistance	≤3mΩ				
	Insulation Resistance	≥1000MΩ				
CLIMATIC CHARACTERISTICS	Protection Class	IP40				
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)				
MECHANICAL CHARACTERISTICS	Weight - EP 11 & 12 <sup>2)</sup>	80g (0.176lb)	84g (0.185lb)	86g (0.189lb)	86g (0.189lb)	86g (0.189lb)
	Weight - EP 13 & 14 <sup>2)</sup>	48g (0.105lb)	50g (0.110lb)	54g (0.119lb)	54g (0.119lb)	54g (0.119lb)
	Weight - AP 11 & 12 <sup>2)</sup>	N/A	42g (0.092lb)	44g (0.097lb)	44g (0.097lb)	44g (0.097lb)
	Weight - AP 13, 14, 21 & 22 <sup>2)</sup>	N/A	26g (0.057lb)	30g (0.066lb)	30g (0.066lb)	28g (0.061lb)
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependant on cable material and diameter				
	Mechanical operations	1000 mating cycles				

<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.

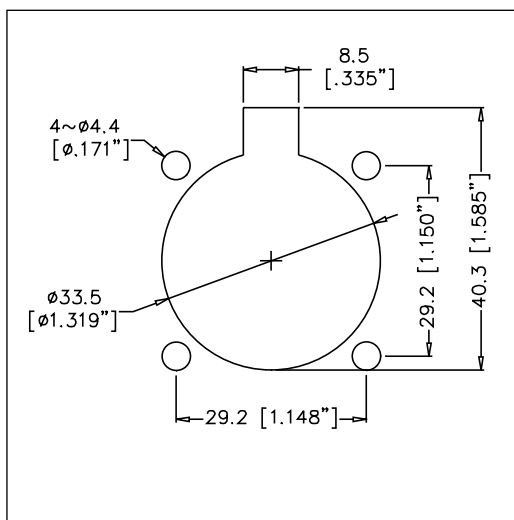
## STANDARD DATA EP/AP (CONT'D)

MATERIALS	TYPE	DETAILS	
		AP	EP
	Connector shell	Modified PPE Resin	Diecast Zinc Alloy
	Shell finish	Black	Satin Nickel or Black
	Insulators	UL94V-0 PBT Resin	
	Cable Bushing	Silicon Rubber	UL94 HB Thermoplastic Elastomer
	Male contact Machined - Solder	Brass / Bright Tin	
	Material / Plating		
	Female contact Machined - Solder	Brass / Bright Tin	
	Material / Plating		
CLAMPING CHARACTERISTICS	Cable OD Range	11mm to 17mm (0.43" to 0.67")	9mm to 16mm (0.35" to 0.63")
	Retention Method	Two opposing plastic screws	Metal saddle clamp

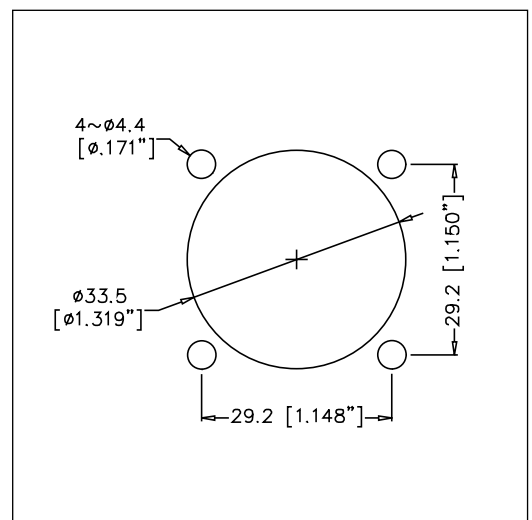
Rev 3 - 03/2013

## EP/AP SERIES PANEL CUTOUT DATA - FRONT VIEW

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22





# Power Connectors

## HP Series



## HP Series

HP Series connectors are suitable for AC power supply where a latch locking connector is required. They are rated at 25 A / 250 Vac. Connectors are keyed and colour coded for power-in (Blue) and power-out (Grey).



THE HP SERIES OF CONNECTORS ARE NOT DESIGNED TO BE "HOT PLUGGED" AND SO ARE WITHOUT "BREAKING CAPACITY". IN OTHER WORDS, THE CONNECTORS SHOULD NOT BE CONNECTED OR DISCONNECTED LIVE OR WHEN UNDER LOAD

### Features:

- Quick release, vibration resistant latch lock
- 3 pole
- Screw Terminals or Solder Tab 3/16"
- Chuck type cable clamp
- 25A Current rating
- Thermoplastic housing
- Industry standard mating
- UL, cUL recognized components (File no. E339831)



PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NO.
		3 pole, Cable connector, Thermoplastic shell, Blue sleeve, keyed for power-in	Screw	Blue	HP-3-F
		3 pole, Cable connector, Thermoplastic shell, Grey sleeve, keyed for power-out	Screw	Grey	HP-3-FG
		3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in	Solder Tab 3/16"	Blue	HP-3-MD
		3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out	Solder Tab 3/16"	Grey	HP-3-MDG
		3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in, without insulation divider	Solder Tab 3/16"	Blue	HP-3-MDW
		3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out, without insulation divider	Solder Tab 3/16"	Grey	HP-3-MDGW

# STANDARD DATA HP SERIES CONNECTORS

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	2 + PE
	Termination	Screw or Solder Tab 3/16"
	Flammability	UL94V-0
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Rated Operating Voltage	250VAC
	Test Voltage AC RMS	3200V
	Current carrying capacity	25A
	Typical Contact Resistance	≤3mΩ
	Insulation Resistance (initial)	≥2GΩ
	Insulation Resistance (after damp heat test)	≥1GΩ
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP20
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)
<b>MECHANICAL CHARACTERISTICS</b>	Weight** - Chassis Connector - Cable Plug	12g (0.026lb) 32g (0.070lb)
	Typical Cable retention force	200N (Subject to cable material and O.D.)
	Cable O.D range - Blue Chuck Clamp - Black Chuck Clamp	5mm - 7.5mm (0.19" - 0.29") 7.5mm - 15mm (0.29" - 0.59")
	Conductor Size - Screw Terminals	2.5mm <sup>2</sup> (AWG14)
	Connector Shell / Finish	PA66 GF30 / Black
<b>MATERIALS</b>	Insulators	PA66 GF30
	Cable Boot / Backshell	Santoprene / PBT
	Cable Clamp (Chuck)	P.O.M
	Contact Plug - Material / Plating	Brass / Silver
	Contact Chassis - Material / Plating	Phosphor Bronze / Silver

Rev 4 - 08/2016

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

# Power Connectors

## HPT Series



## HPT Series

HPT Series connectors are suitable for AC power supply where a durable latch locking connector is required. They are rated at 16A, 250 Vac. HPT Series connectors can be connected or disconnected under load and are IP65 rated.


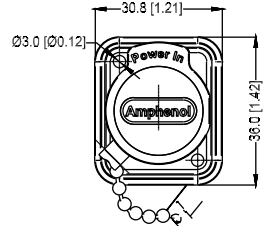

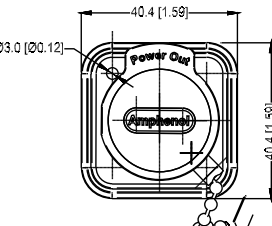

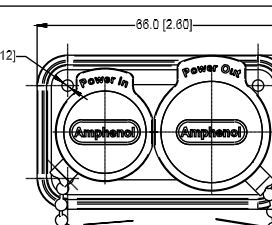

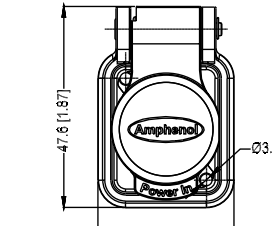

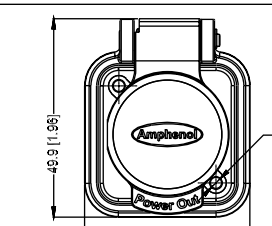

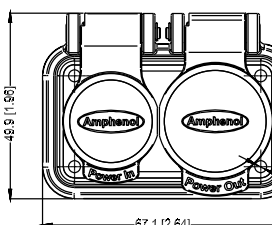

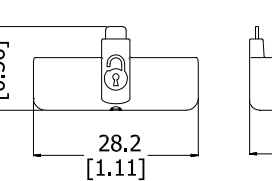


### Features:

- 2 + PE contact layout
- Quick release, vibration resistant latch lockable
- High impact UV resistant material
- True Mains Connector with Current Breaking Capacity (CBC)
- 16A current rating (20A USA)
- Industry standard mating interface
- IP65 rated
- Patent Protected\*
- UL498 certified
- UL50E enclosure type 4 (when mated or in combination with protective caps)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
			3 pole, Outlet Cable connector, Locking, Thermoplastic shell, Screw terminals, <b>Lockable backshell</b>	Screw	Black	<a href="#">HPT-3-F</a>
			3 pole, Outlet Cable connector, Locking, Thermoplastic shell, Screw terminals	Screw	Black	<a href="#">HPT-3-FJ</a>
			3 pole, Inlet Cable connector, Locking, Thermoplastic shell, Screw terminals, <b>Lockable backshell</b>	Screw	Black	<a href="#">HPT-3-M</a>
			3 pole, Inlet Cable connector, Locking, Thermoplastic shell, Screw terminals	Screw	Black	<a href="#">HPT-3-MJ</a>
			3 pole, Chassis Inlet connector, Thermoplastic shell, 1/4\" flat tab terminals	Tab 1/4"	Black/ Yellow	<a href="#">HPT-3-MD</a>
			3 pole, Chassis Inlet connector, Thermoplastic shell, without insulation divider, 1/4\" flat tab terminals	Tab 1/4"	Black/ Yellow	<a href="#">HPT-3-MDW</a>
			3 pole, Chassis Outlet connector, Thermoplastic shell, 1/4\" flat tab terminals	Tab 1/4"	Black/ Yellow	<a href="#">HPT-3-FD</a>
			3 pole, Chassis Outlet connector, Thermoplastic shell, without insulation divider, 1/4\" flat tab terminals	Tab 1/4"	Black/ Yellow	<a href="#">HPT-3-FDW</a>
			3 pole, Chassis Inlet-Outlet combination, Thermoplastic shell, 1/4\" flat tab terminals	Tab 1/4"	Black/ Yellow	<a href="#">HPT-3-CC</a>

\*Patent Protected refer to <http://www.amphenolaudio.com/patents/>

PRODUCT - FIGURE	DRAWING	DESCRIPTION	COLOUR	PART NUMBER
		Protective sealing cap with stainless steel lanyard to suit HPT-3-MD / HPT-3-MDW	Black	HPT-CAPM
		Protective sealing cap with stainless steel lanyard to suit HPT-3-FD / HPT-3-FDW	Black	HPT-CAPF
		Protective sealing cap with stainless steel lanyard to suit HPT-3-CC	Black	HPT-CAPD
		Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-MD / HPT-3-MDW	Black	HPT-CAPSM
		Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-FD / HPT-3-FDW	Black	HPT-CAPSF
		Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-CC	Black	HPT-CAPSD
		Cable connector backshell lock release tool	Black	HPT-RT

# STANDARD DATA HPT SERIES CONNECTORS

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	2 + PE
	Termination - Cable Connector - Chassis Mount	2mm Hex key screw terminal Flat Tab 1/4"
	Flammability	UL94V-0
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Rated Operating Voltage	250VAC
	Test Voltage AC RMS	1500V
	Current carrying capacity	16A (20A USA)
	Typical Contact Resistance	≤2mΩ
	Insulation Resistance (initial)	≥2GΩ
	Insulation Resistance (after damp heat test)	≥0.1GΩ
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP65, UL50E enclosure type 4 (in mated or in combination with protective caps)
	Operating Temperature	-25 °C to +80 °C (-13°F to +176°F)
<b>MECHANICAL CHARACTERISTICS</b>	Weight** - Chassis Connector - Cable Plug	15g (0.033lb) / 25g (0.055lb) 40g (0.088lb)
	Typical Cable retention force	Subject to cable material and O.D.
	Cable O.D range	6.0 -12.0 mm with lockable backshell 7.5 -16.0 mm with non-lockable backshell
	Conductor Size - Screw Terminals	2.5mm <sup>2</sup> (AWG12)
	Connector Shell / Finish	PA66 GF30 / Black
	Insulators	PA66 GF30
<b>MATERIALS</b>	Cable Boot / Backshell	Neoprene / PBT
	Contact Plug - Material / Plating	Copper Alloy / Silver
	Contact Chassis - Material / Plating	Copper Alloy / Silver
	Protective Caps - Base - Overmolded Cap - Chain	Santoprene, UV resistant PA66 & Santoprene, UV resistance Stainless Steel SS304
	Protective Caps (Self closing) - Base - Overmolded Cap - Gasket - Spring	Polycarbonate, UV resistant Polycarbonate & Santoprene, UV resistant Silicone Rubber Stainless Steel SS304

Rev 4 - 11/2020

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

# Amphe-Dante Adapters

**Amphe-Dante** are Dante™ audio to analogue audio adapters, available for Input, Output, AES3 and USB applications. Featuring premium quality Amphenol AX series XLR and RJ45 connectors in a robust molded housing.

Amphe-Dante products enable simple connection of analogue equipment to a Dante network and can receive and transmit audio channels from a Dante network and provide studio-quality, low-latency audio via XLR connectors to and from analogue audio equipment.



Amphe-Dante feature high-quality digital-to-analogue converters, and support a range of sample rates and bit depths. They can provide a hardware master clock for a Dante network. As with other Dante products, the freely available Dante Controller software application is used to automatically discover and configure Amphe-Dante devices connected to the Dante network. Device names, channel labels, signal routing and other parameters (for example, sample rate and latency) can be configured via the network using Dante Controller. A variety of network and clock synchronisation diagnostic tools are also available in Dante Controller.

Amphe-Dante products use Power over Ethernet (PoE). Power can be provided through the Ethernet cable from a PoE-capable network switch, or from a separate PoE injector.

## Available Software Options (required)

### Dante Controller

Dante Controller is a free software application that enables you to route audio and configure devices on a Dante network. As well as automatic device discovery, one-click signal routing and user-editable device and channel labels, Dante Controller provides essential device status information and powerful real-time network monitoring, including device-level latency and clock stability stats, multicast bandwidth usage, and customized event logging, enabling you to quickly identify and resolve any potential network issues.

### Dante Via

Dante Via is powerful and easy-to-use software that delivers unprecedented routing of computer-based audio, allowing a wide range of applications and devices to be networked and interconnected, easily and inexpensively. Dante Via network-enables locally-connected USB and Firewire devices, and a huge range of software applications, allowing you to route computer-based audio across an existing Dante network, and create standalone Dante networks without dedicated Dante hardware.

### Dante Virtual Soundcard

Dante Virtual Soundcard turns your computer into a Dante-powered workstation, seamlessly integrating your PC or Mac with Dante audio devices on your network. You can instantly connect to a Dante network to record, process and playout using any audio application and any combination of Dante-enabled devices.

### Dante Controller



All software can be purchased and downloaded at [amphenolaudio.com/products/dante](http://amphenolaudio.com/products/dante)

Dante™ is a trademark of Audinate Pty Ltd. Audinate® is a registered trademark of Audinate Pty Ltd.



# Data Connectors

## Amphe-Dante Adapters



### Features:

- Dante™ to analogue XLR output adapters
- Line level analogue input to Dante™ audio output adapters
- Dante™ AES3 2 channel input/output adapters
- Dante™ USB input/output adapters
- One channel or Two channel analogue input or output
- Durable overmolded housing
- Resilient cable strain relief
- Shielded RJ45 metal connectors with integrated LED's
- Premium AX Series XLR connectors

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	PART NO.
<b>ANALOGUE OUTPUT</b>			
		Analogue Output - 1 channel, RJ45 input to XLR output, Durable overmolded housing  	RJD1112-0050
		Analogue Output - 2 channel, RJ45 input to XLR output, Durable overmolded housing  	RJD1212-0050
<b>ANALOGUE INPUT</b>			
		Analogue line level Input - 1 channel, XLR input to RJ45 output, Durable overmolded housing  	RJD2103-0050
		Analogue line level Input - 2 channel, XLR input to RJ45 output, Durable overmolded housing  	RJD2203-0050
<b>AES3</b>			
		AES3 Input / Output - 2 channel, XLR I/O to RJ45 I/O, Durable overmolded housing  	RJD32A3-0050
<b>USB</b>			
		USB Input / Output - 2 channel, USB I/O to RJ45 I/O, Durable overmolded housing  	RJD32U1-0050



# SPECIFICATIONS

		ANALOG INPUT 1CH	ANALOG INPUT 2CH	ANALOG OUT- PUT 1CH	ANALOG OUT- PUT 2CH	AES3 I/O 2 IN 2 OUT	USB I/O 2 IN 2 OUT
GENERAL	Connectors	1 XLR-F	2 XLR-F	RJ45	RJ45	RJ45	RJ45
		RJ45	RJ45	1 XLR-M	2 XLR-M	1 XLR-M, 1 XLR-F	USB 2.0 Type A
ELECTRICAL	Power Consumption	< 2 Watt					
	Power over Ethernet (Required)	Class 1 IEEE 802.3af POE PD compliant					PoE or USB
ANALOG / DIGITAL AUDIO	Max Signal Level (Balanced)	+24dBu / +4dBu / 0dBu 0dBV / -10dBV		+18dBu / +4dBu / 0dBu 0dBV / -10dBV		-	-
	Impedance	20k Ohm balanced 10k Ohm unbalanced		150 Ohm balanced 75 Ohm unbalanced		110 Ohm balanced	-
	Frequency Response	20Hz to 20 kHz (+/-0.5db)		20Hz to 20 kHz (+/-0.5db)		-	-
	Dynamic Range	> 100dB		> 100dB		-	-
	Signal to Noise	> 100dB		> 100dB		> 135dB	-
	Total Harmonic Distortion	< 0.01% at +4dBu		< 0.01% at +4dBu		-	-
	Channel Separation	N/A	> 100 dB	N/A	> 100 dB		-
	Channel Matching	N/A	< 0.25 dB	N/A	< 0.25 dB		-
DANTE® AUDIO	Asynchronous Sample Rate Conversion	-		-		Yes	-
	Sample Rate	44.1 kHz, 48 kHz (default), and 96 kHz					48 kHz
	Bit Depth	24 bits					
	Network Speed	100 Mbps					
	Network Interface	Latency from 1ms					
	Network Transport	Dante Audio over IP, AES67 RTP					
CLIMATIC	Protection Class	IP40					
	Operating Temperature	-5°C to +60°C (23°F to +140°F)					
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤35N					
	Weight	136g (0.299lb)	192g (0.423lb)	136g (0.299lb)	192g (0.423lb)	192g (0.423lb)	110g (0.243lb)
MATERIALS	Housing	PVC 60P Black					

Rev 4 - 09/2018

## LED STATUS



FUNCTION	LEFT LED	RIGHT LED	COMMENT
Off	OFF	OFF	No Power
Device is booting	Solid GREEN	Solid RED	
Slave with sync	Blinking GREEN	Solid GREEN	Normal operation
Clock Master	Blinking GREEN	Blinking GREEN	Normal operation
Any runtime error	Blinking GREEN	Blinking RED	Normal operation
Identify	Alternating RED and GREEN	Alternating RED and GREEN	Blinking for 6 seconds (cycle every 0.5 seconds)
Failsafe (bootloader)	Blinking RED	Blinking RED	Failsafe, Corrupt Capability (red in DC)
Upgrade (bootloader)	Blinking ORANGE	Blinking ORANGE	Device is upgrading

# Data Connectors

## XLRnet RJ45 Ethernet Series



## XLRnet Connectors

XLRnet was designed in conjunction with the Amphenol Data / Telecom product group of Amphenol Canada Corp., a subsidiary of Amphenol Corporation. Utilising our combined expertise and knowledge of the professional audio and high-speed data markets we are proud to offer the XLRnet series. Featuring Class D (10/100 BASE-T), CAT5E (1000 BASE-T) or CAT6 (10GBASE-T) ethernet performance in A, B or D shell housings with integrated LED's and complete shielding options we have your high-speed data requirements covered.

### Features

- Class D (10/100 BASE-T), CAT5E (1000 BASE-T) or CAT6 (10GBASE-T) ethernet performance
- A, B or D type chassis housings
- IDC or IDC 110 punch down terminals
- RJ45 feedthrough panel connectors
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Compact design
- Cable plug housings
- Quick and simple installation

### Options

- Horizontal or Vertical PCB contacts
- Bulk Packaging
- LED colour - Red, Green, Yellow or Blue combinations

### Ordering Codes

We have listed the more common ordering codes in each section. 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.
- 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.



## XLRnet SERIES

### Features/Benefits:


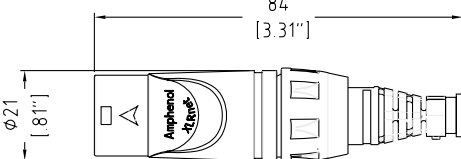

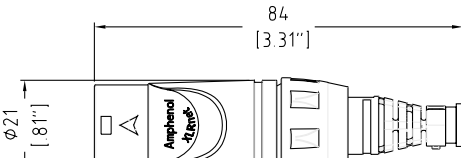
- XLR RJ45 Cable plug housing.
- Designed for pre-assembled RJ45 cables.
- Quick and simple installation.
- Cost effective method for harsh environments.
- No cabling in field required.
- No tools required for installation.
- Available in Nickel or Black housings.
- Coloured boots / Backshells

Specifications: Page 80

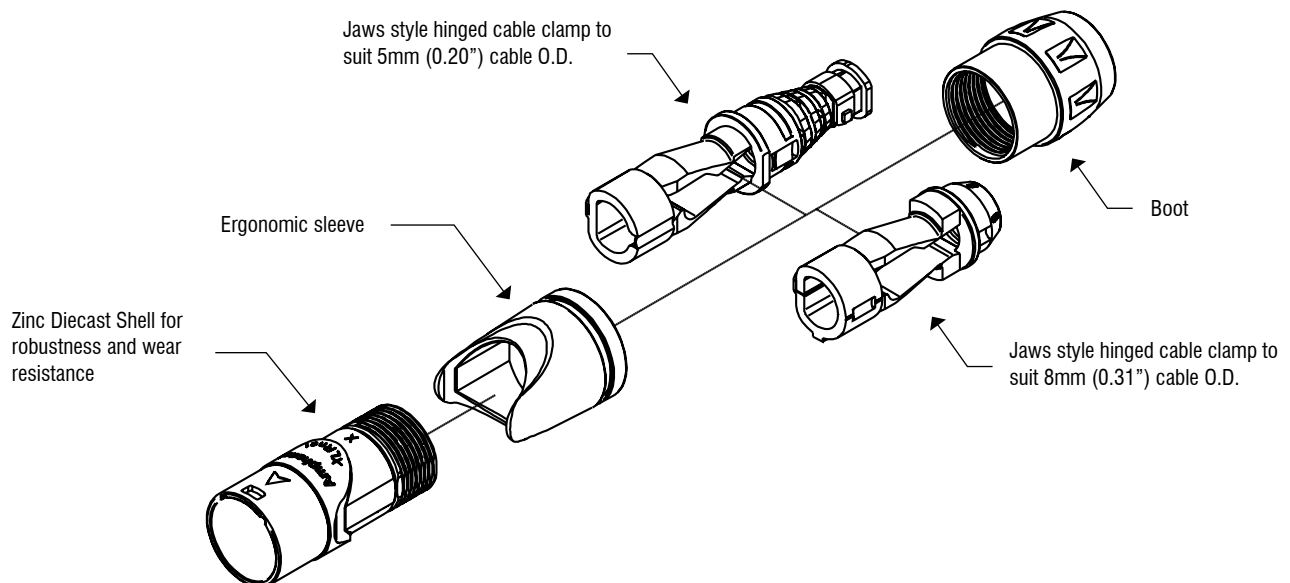
Part Number Breakdown : Page 80

Assembly Instructions: Page 81

**NOTE\***RJ45 preassembled cable sold separately and is not included with the XLRnet connector.

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		84 [3.31"]	XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Nickel Finish	Standard	RJX8M
				Bulk Pack	RJX8M BULK
		84 [3.31"]	XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Black Finish	Standard	RJX8MB
				Bulk Pack	RJX8MB BULK

## ISO VIEW OF RJX8M



PART NUMBER BREAKDOWN

XLRnet SERIES

Diagram showing part number breakdown: RJX (Series Prefix), 8 (Contact Layouts), M (Gender), B (Shell Finish), BULK (Packaging).

E. G. RJX8MB BULK  
RJX (Series Prefix), 8 contacts, M (Cable Connector), B (Black Finish), Bulk Packaged

Field	Value	Description
SERIES PREFIX	RJX	Series Prefix
CONTACT LAYOUT	8	RJ45 Cable Housing
GENDER	M	Male Cable Plug
SHELL FINISH	Blank	Nickel Plated Finish
	B	Metal - Black Finish
PACKAGING	Blank	Individual Bags
	BULK	Bulk Packed

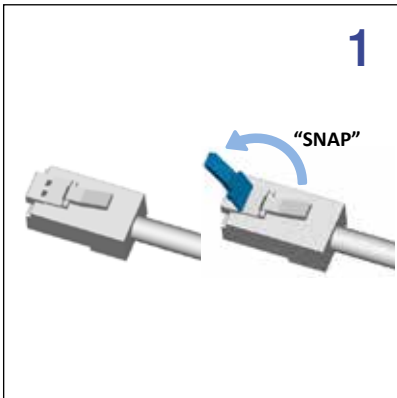
STANDARD DATA XLRnet SERIES

		VALUE
GENERAL CHARACTERISTICS	Termination	Preamsembled RJ45 Cable (Not supplied)
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-25°C to +75°C (-13°F to -167°F)
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force	≥ 10N - ≤ 20N
	Weight 2)	26g (0.057lb)
	Cable O.D. range	5 or 8mm (0.20" or 0.31")
	Mechanical Operations	1000 mating cycles
MATERIALS	Connector shell - Metal Shell finish	Diecast Zinc Alloy Satin nickel or Black
	Boot / Backshell Finish	UL94V-0 Noryl N190 / Valox Black
	Cable clamp	PA6
	Sleeve	Valox

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

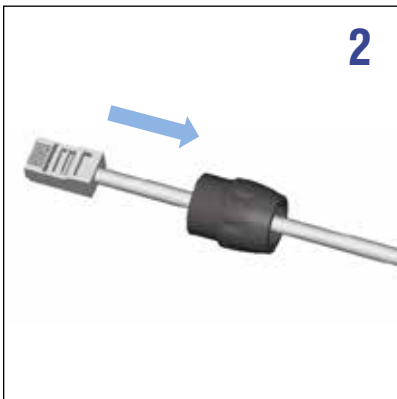
Rev 1 - 03/2013

# XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



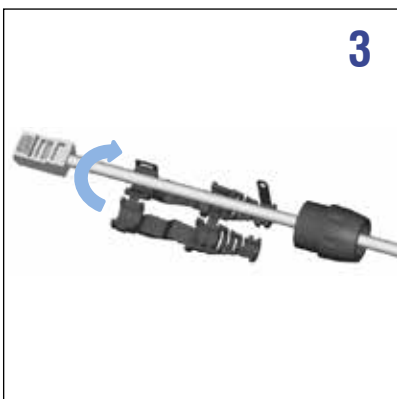
**1**

⚠ Snap or cut off release tab of the RJ45 plug.  
Failure to remove the RJ45's Release Tab will make the XLRnet assembly permanently latching. The XLRnet series has an independent panel side latching system.



**2**

Slide the nut (backshell) onto the cable.



**3**

Install the cable clamp-boot.



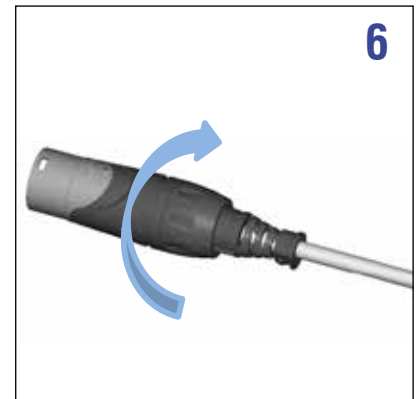
**4**

Close clamp-boot, fasten the two tabs together to lock.



**5**

Push clamp-boot & cable together into the shell



**6**

Thread the nut (backshell) onto the shell (torque 0.8Nm-1.2Nm) to close the connector assembly.



## XLRnet SERIES A & B Type

### Features:

- RJ45 Class D (10/100 BASE-T), CAT5E (1000 BASE-T) or CAT6 (10GBASE-T) Ethernet performance
- A or B type chassis housings
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Horizontal or Vertical PCB
- Mates with XLRnet cable plugs or standard RJ45 plug.

**Part Number Breakdown: Page 84**

**Specifications: Page 89**

**PCB Footprints: Page 88**


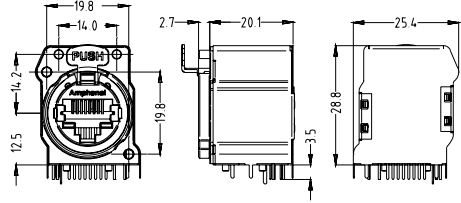

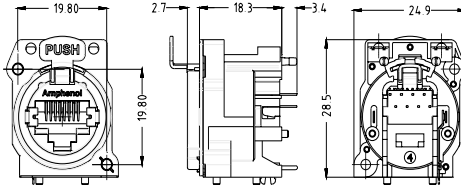

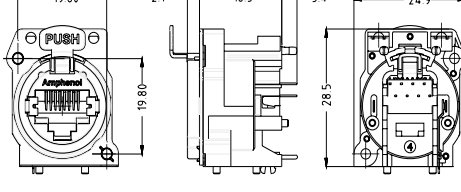

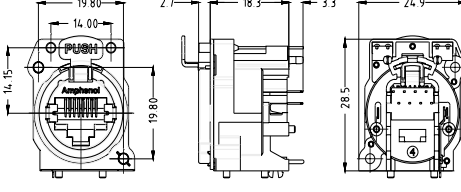

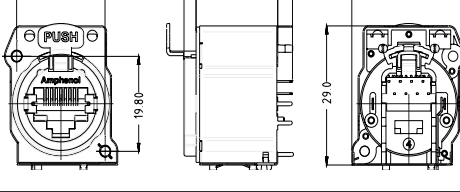
**Recommended Fastener: Page 134**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	LED* LHS/RHS		PART NUMBER
			XLRnet chassis, A type, Horizontal PCB	Class D	-	-	RJX8FA3HB
				CAT5E	-	-	RJX8FA5HB
				CAT6	-	-	RJX8FA6HB
			XLRnet chassis B type, Horizontal PCB	Class D	-	-	RJX8FB3HB
				CAT5E	-	-	RJX8FB5HB
				CAT6	-	-	RJX8FB6HB
			XLRnet chassis, B type, LEDs, Horizontal PCB, Bulk packed	CAT5E	R	G	RJX8FB5HRGB
					R	Y	RJX8FB5HRYB
					R	R	RJX8FB5HRRB
					G	R	RJX8FB5HGRB
					G	Y	RJX8FB5HGYB
					U	U	RJX8FB5HUUB
				CAT6	R	G	RJX8FB6HRGB
					R	Y	RJX8FB6HRYB
					R	R	RJX8FB6HRRB
					G	R	RJX8FB6HGRB
					G	Y	RJX8FB6HGYB
					U	U	RJX8FB6HUUB
			XLRnet chassis, B type, Shielded Hood, Horizontal PCB, Bulk packed	Class D	-	-	RJX8FB3HEB
				CAT5E	-	-	RJX8FB5HEB
				CAT6	-	-	RJX8FB6HEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88  
R = Red, G = Green, Y = Yellow, U = Blue

# Data Connectors

## XLRnet RJ45 Ethernet Series


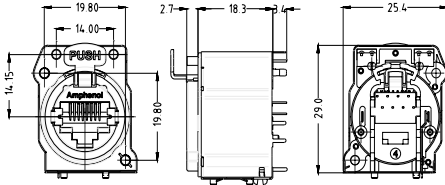
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	LED* LHS/RHS		PART NUMBER
			XLRnet chassis, B type, Shielded Hood, LEDs, Horizontal PCB, Bulk packed	CAT5E	R	G	<a href="#">RJX8FB5HRGEB</a>
					R	Y	<a href="#">RJX8FB5HRYEB</a>
					R	R	<a href="#">RJX8FB5HRRRB</a>
					G	R	<a href="#">RJX8FB5HGREB</a>
					G	Y	<a href="#">RJX8FB5HGYEB</a>
					U	U	<a href="#">RJX8FB5HUUEB</a>
				CAT6	R	G	<a href="#">RJX8FB6HRGEB</a>
					R	Y	<a href="#">RJX8FB6HRYEB</a>
					R	R	<a href="#">RJX8FB6HRRRB</a>
					G	R	<a href="#">RJX8FB6HGREB</a>
			XLRnet chassis, A type, Vertical PCB	Class D	-	-	<a href="#">RJX8FA3VB</a>
				CAT5E			<a href="#">RJX8FA5VB</a>
				CAT6			<a href="#">RJX8FA6VB</a>
			XLRnet chassis, B Type, Vertical PCB	Class D	-	-	<a href="#">RJX8FB3VB</a>
				CAT5E			<a href="#">RJX8FB5VB</a>
				CAT6			<a href="#">RJX8FB6VB</a>
			XLRnet chassis, B type, LEDs, Vertical PCB, Bulk packed	CAT5E	R	G	<a href="#">RJX8FB5VRGB</a>
					R	Y	<a href="#">RJX8FB5VRYB</a>
					R	R	<a href="#">RJX8FB5VRRB</a>
					G	R	<a href="#">RJX8FB5VGRB</a>
					G	Y	<a href="#">RJX8FB5VGYB</a>
					U	U	<a href="#">RJX8FB5VUUB</a>
				CAT6	R	G	<a href="#">RJX8FB6VRGB</a>
					R	Y	<a href="#">RJX8FB6VRYB</a>
					R	R	<a href="#">RJX8FB6VRRB</a>
					G	R	<a href="#">RJX8FB6VGRB</a>
			XLRnet chassis, B type, Shielded Hood, Vertical PCB, Bulk packed	Class D	-	-	<a href="#">RJX8FB3VEB</a>
				CAT5E			<a href="#">RJX8FB5VEB</a>
				CAT6			<a href="#">RJX8FB6VEB</a>

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88  
R = Red, G = Green, Y = Yellow, U = Blue



# Data Connectors

## XLNnet RJ45 Ethernet Series

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	LED* LHS/RHS	PART NUMBER
			XLNnet chassis, B type, Shielded Hood, LEDs, Vertical PCB, Bulk packed	CAT5E	R G	RJX8FB5VRGEB
					R Y	RJX8FB5VRYEB
					R R	RJX8FB5VRREB
					G R	RJX8FB5VGREB
					G Y	RJX8FB5VGYEB
					U U	RJX8FB5VUUEB
				CAT6	R G	RJX8FB6VRGEB
					R Y	RJX8FB6VRYEB
					R R	RJX8FB6VRREB
					G R	RJX8FB6VGREB
					G Y	RJX8FB6VGYEB
					U U	RJX8FB6VUUEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88  
R = Red, G = Green, Y = Yellow, U = Blue

## PART NUMBER BREAKDOWN

### XLNnet A and B Type Printed Circuit Board Connectors

E. G. **RJX8FB5HLRREB**  
**RJX** (Series Prefix), **8** (Contacts), **Female B** type, **5** Cat5E Horizontal, **Latchless**,  
**Red** - Red LEDs, **EMI** / RFI Hood, **Bulk** Packaged.

<b>SERIES PREFIX</b>	RJX	=	Series Prefix
<b>CONTACT LAYOUT</b>	8	=	RJ45 type
<b>GENDER</b>	F	=	Receptacle housing
<b>SHELL SERIES</b>	A B	=	A Type B Type
<b>TRANSMISSION CLASS</b>	3 5 6	=	Class D CAT 5e CAT 6
<b>TERMINATION</b>	H V	=	Horizontal Printed Circuit Board Vertical Printed Circuit Board
<b>LOCKING MECHANISM</b>	Blank P	=	Latching Push lever supplied separately for customer installation (Contact factory for detailed fitting instructions)
<b>LED COLOUR SEQUENCE*</b>	Blank RG RY RR GR GY GG YR YY YG UU	=	No LEDs Red / Green Red / Yellow Red / Red Green / Red Green / Yellow Green / Green Yellow / Red Yellow / Yellow Yellow / Green Blue / Blue
<b>EMI / RFI SHIELDING HOOD</b>	Blank E	=	No shield hood EMI / RFI shield hood
<b>PACKAGING</b>	Blank B	=	Individual Bulk packed

SERIES PREFIX	CONTACT LAYOUTS	GENDER	SHELL SERIES	TRANSMISSION CLASS	TERMINATION	LOCKING MECHANISM	LED COLOURS	EMI / RFI HOOD	PACKAGING
RJX	8	F	B	5	H	L	RR	E	B

\*Note: LED colours are denoted left to right from the panel side front view.  
Refer Page 88



## XLRnet SERIES D Type

### Features:

- RJ45 Class D (10/100 Base-T), CAT5E (1000 Base-T) or CAT6 (10GBASE-T) Ethernet performance
- D type XLR standard housings
- IDC Punchdown block
- Thru-adaptor / Feedthrough
- Horizontal or Vertical PCB

**Part Number Breakdown: Page 87**

**Specifications: Page 89**


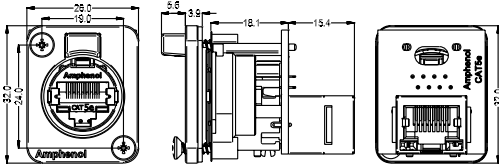

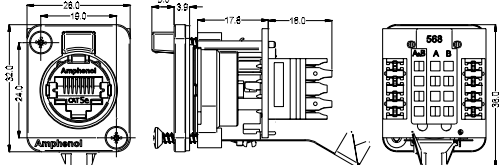

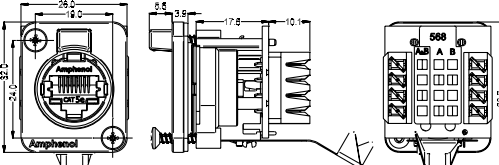

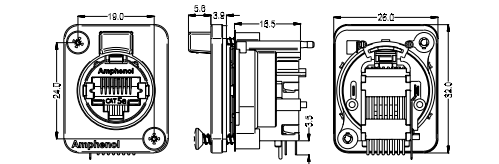

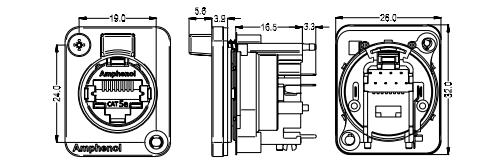

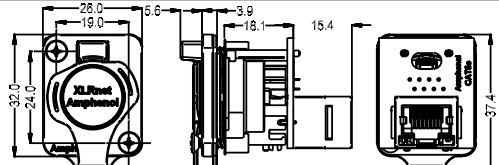

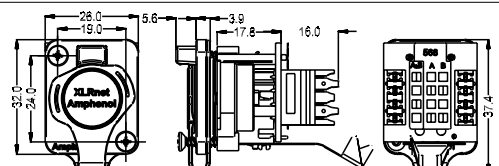

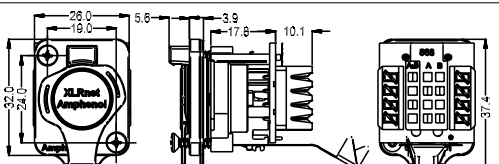

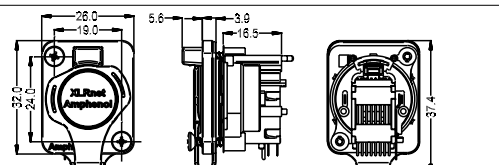

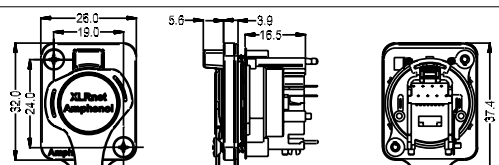


**PCB Footprints: Page 88**

**Recommended Fastener: Page 134**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
			XLRnet chassis, D type, Feedthrough, Nickel Finish	CAT5E	<a href="#">RJX8FD5T</a>
			XLRnet chassis, D type, IDC Terminals, 110 type, Nickel Finish	CAT5E	<a href="#">RJX8FD5110</a>
				CAT6	<a href="#">RJX8FD6110</a>
			XLRnet chassis, D type, IDC Terminals, Nickel Finish	CAT5E	<a href="#">RJX8FD5I</a>
				CAT6	<a href="#">RJX8FD6I</a>
			XLRnet chassis, D type, Horizontal PCB, Nickel Finish	Class D	<a href="#">RJX8FD3HB</a>
				CAT5E	<a href="#">RJX8FD5HB</a>
				CAT6	<a href="#">RJX8FD6HB</a>
			XLRnet chassis, D type, Vertical PCB, Nickel Finish	Class D	<a href="#">RJX8FD3VB</a>
				CAT5E	<a href="#">RJX8FD5VB</a>
				CAT6	<a href="#">RJX8FD6VB</a>

# Data Connectors

## XLRnet RJ45 Ethernet Series

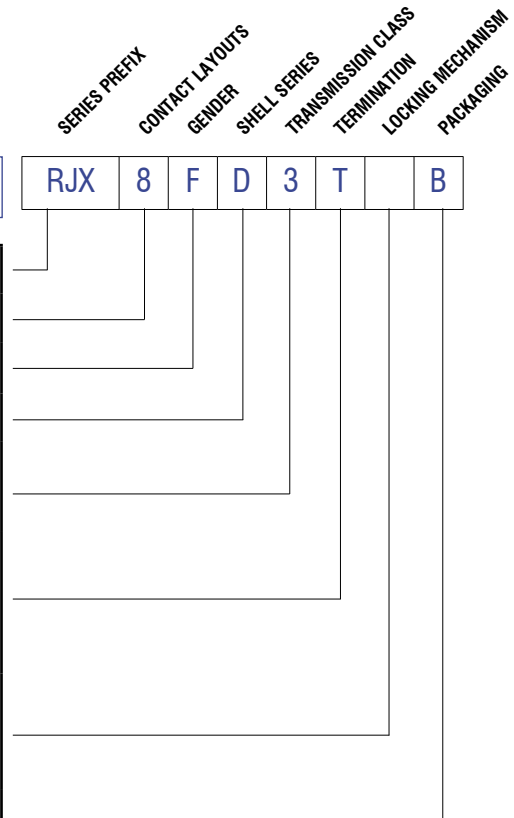
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
			XLRnet chassis, D type (IP54), Feedthrough, Nickel Finish	CAT5E	<a href="#">RJXS8FD5T</a>
			XLRnet chassis, D type (IP54), IDC Terminals, 110 type, Nickel Finish	CAT5E	<a href="#">RJXS8FD5110</a>
			XLRnet chassis, D type (IP54), IDC Terminals, Nickel Finish	CAT6	<a href="#">RJXS8FD6110</a>
			XLRnet chassis, D type (IP54), Horizontal PCB, Nickel Finish	CAT5E	<a href="#">RJXS8FD5I</a>
			XLRnet chassis, D type (IP54), Horizontal PCB, Nickel Finish	CAT6	<a href="#">RJXS8FD6I</a>
			XLRnet chassis, D type (IP54), Vertical PCB, Nickel Finish	Class D	<a href="#">RJXS8FD3HB</a>
			XLRnet chassis, D type (IP54), Vertical PCB, Nickel Finish	CAT5E	<a href="#">RJXS8FD5HB</a>
			XLRnet chassis, D type (IP54), Vertical PCB, Nickel Finish	CAT6	<a href="#">RJXS8FD6HB</a>
			XLRnet chassis with Protective cap, D type (IP54), Feedthrough, Nickel Finish	Class D	<a href="#">RJXS8FD3VB</a>
			XLRnet chassis with Protective cap, D type (IP54), IDC Terminals, 110 type, Nickel Finish	CAT5E	<a href="#">RJXS8FG5T</a>
			XLRnet chassis with Protective cap, D type (IP54), IDC Terminals, Nickel Finish	CAT6	<a href="#">RJXS8FG5110</a>
			XLRnet chassis with Protective cap, D type (IP54), Horizontal PCB, Nickel Finish	CAT5E	<a href="#">RJXS8FG6110</a>
			XLRnet chassis with Protective cap, D type (IP54), Horizontal PCB, Nickel Finish	CAT6	<a href="#">RJXS8FG6I</a>
			XLRnet chassis with Protective cap, D type (IP54), Vertical PCB, Nickel Finish	Class D	<a href="#">RJXS8FG3HB</a>
			XLRnet chassis with Protective cap, D type (IP54), Vertical PCB, Nickel Finish	CAT5E	<a href="#">RJXS8FG5HB</a>
			XLRnet chassis with Protective cap, D type (IP54), Vertical PCB, Nickel Finish	CAT6	<a href="#">RJXS8FG6HB</a>
			XLRnet chassis with Protective cap, D type (IP54), Vertical PCB, Nickel Finish	Class D	<a href="#">RJXS8FG3VB</a>
			XLRnet chassis with Protective cap, D type (IP54), Vertical PCB, Nickel Finish	CAT5E	<a href="#">RJXS8FG5VB</a>
			XLRnet chassis with Protective cap, D type (IP54), Vertical PCB, Nickel Finish	CAT6	<a href="#">RJXS8FG6VB</a>

# PART NUMBER BREAKDOWN

## XLRnet D TYPE Chassis Connectors

E. G. **RJX8FD3TB**  
**RJX** (Series Prefix), **8** (Contacts), **F**emale **D** type, **3** Class **D** Thru Adaptor, **B**ulk Packaged

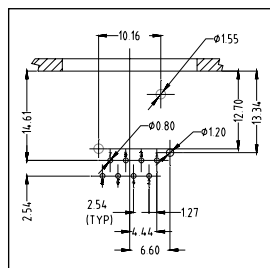
<b>SERIES PREFIX</b>	RJX	=	Series Prefix
<b>CONTACT LAYOUT</b>	8	=	RJ45 type
<b>GENDER</b>	F	=	Receptacle housing
<b>SHELL SERIES</b>	D	=	D Type
<b>TRANSMISSION CLASS</b>	3	=	Class D
	5	=	CAT 5e
	6	=	CAT 6
<b>TERMINATION</b>	H	=	Horizontal Printed Circuit Board
	I	=	IDC Punch Down Block
	110	=	IDC 110 Punch Down Block
	T	=	Thru adaptor / Feedthrough
	V	=	Vertical Printed Circuit Board
<b>LOCKING MECHANISM</b>	Blank	=	Latching
	P	=	Push lever supplied separately for customer installation (Contact factory for detailed fitting instructions)
<b>PACKAGING</b>	Blank	=	Individual
	B	=	Bulk packed



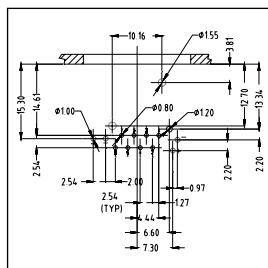
\*Note: LED colours are denoted left to right from the panel side front view. Refer Page 88

## XLRNET A, B AND D TYPE SERIES

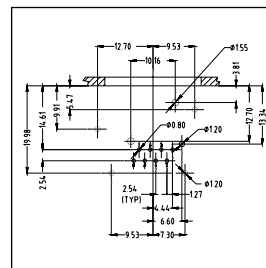
\* Applicable to 3 (Class D), 5 (CAT5E) and 6 (CAT6), where available



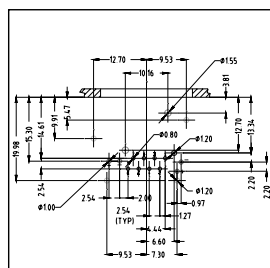
RJX8FA\*H  
RJX8FA\*HB



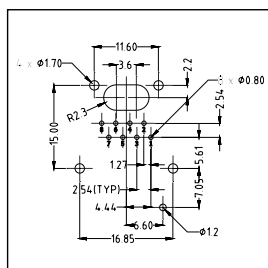
RJX8FB\*HRGB  
RJX8FB\*HRYB  
RJX8FB\*HRRB  
RJX8FB\*HGRB  
RJX8FB\*HGYB  
RJX8FB\*HGGB



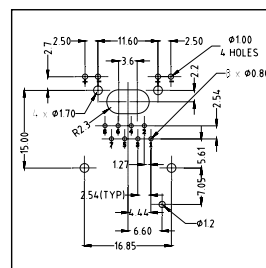
RJX8FB\*HEB



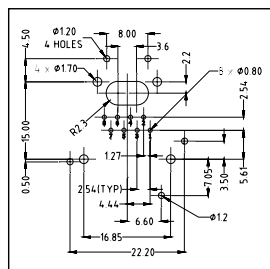
RJX8FB\*HRGEB  
RJX8FB\*HRYEB  
RJX8FB\*HRREB  
RJX8FB\*HGREB  
RJX8FB\*HGWEB  
RJX8FB\*HGGBE



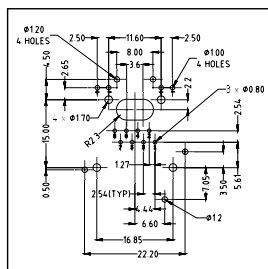
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RJX8FB\*VB



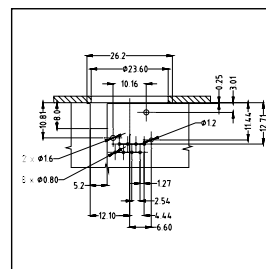
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RJX8FB\*VRYB  
RJX8FB\*VRRB  
RJX8FB\*VGRB  
RJX8FB\*VGYB  
RJX8FB\*VUUB



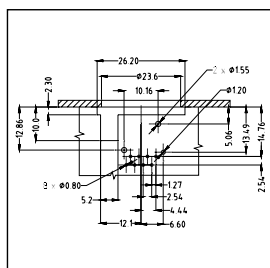
RJX8FB\*VEB



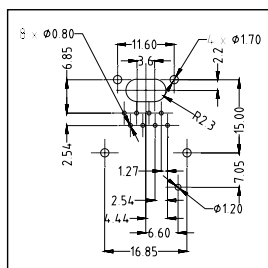
RJX8FB\*VRGEB  
RJX8FB\*VRYEB  
RJX8FB\*VRREB  
RJX8FB\*VGREB  
RJX8FB\*VGYEB  
RJX8FB\*VUUEB



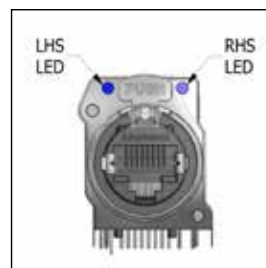
**RJX8FD\*HB**  
(Front  
Mounting)



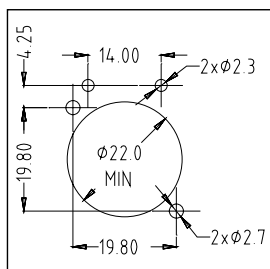
**RJX8FD\*HB**  
(Rear  
Mounting)



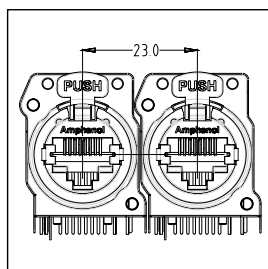
R.JX8FD\*VB



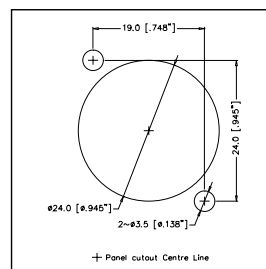
**LED  
Arrangement  
(Front view)**



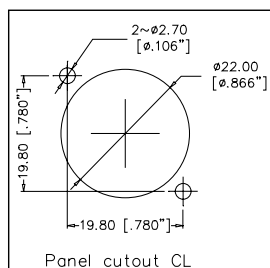
### PANEL CUTOUT A and B type with LED's



**XLRnet  
MOUNTING  
PITCH /  
A and B Type**



### D Type



### A and B Type

# STANDARD DATA XLRnet CHASSIS RECEPTACLES

		VALUE		
		Class D	CAT5E	CAT6
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	8		
	Contact Arrangement	RJ45		
	Termination	Printed Circuit Board (PCB) - through hole, Feedthrough, IDC Terminal		
	Flammability	UL94V-0		
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU		
	Solderability	MIL-STD 202, Method 208		
<b>ELECTRICAL CHARACTERISTICS</b>	Rated current per contact	1.5 A		
	Rated Voltage	125V AC		
	Typical Contact Resistance	20mΩ		
	Insulation Resistance	> 500MΩ		
	Dielectric Strength	1000 VAC, 60 secs		
	Max. Frequency	100Mhz	250MHz	250MHz
	Ethernet Standard	10/100 BASE-T	1000 BASE-T	10GBASE-T
	Transmission Spec.	EIA/ TIA568-C.2, ISO/IEC 11801, EN50173		
	PoE+	802.3at Type 2		
	LED Type	Round, single pole, indicator		
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40 (with EMI/RFI shield)		
	Operating Temperature	-40°C to +80°C (-40°F to +176°F)		
<b>MECHANICAL CHARACTERISTICS</b>	Weight** - A & B Housing - Shielded Housing - D Shell	11g (0.024lb) 17g (0.037lb) 25g (0.055lb)		
	Mechanical Operations	1000		
	Insertion and Withdrawal Force	≤ 21N		
	Latch	Spring Steel		
	Panel Thickness max.	3mm		
	Mounting screw torque max.	0.35Nm		
	Fastener	Self-Tapping screw M2.5		
<b>MATERIALS</b>	Connector Shell / Housing	Thermoplastic, DSM Stanyl UL94V-0, 30% GF / PA66 30% GF		
	Flange (A type)	Thermoplastic, DSM Stanyl UL94V-0, 30% GF		
	Flange (B type)	Diecast Zinc Alloy 3		
	Flange Finish (B type)	Satin Nickel		
	Contact	Phosphor Bronze		
	Contact Finish - Ground - RJ45	0.38μm Au over 1.27μm Ni 1.27μm Au over 1.27μm Ni		
	Metal Hood Shield EMI/RFI	Brass, nickel plated		
	Latch lock and Spring	Spring steel		

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

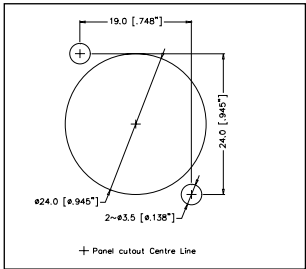
Rev 3 - 05/2015



USB/HDMI Series

- Features:
• Data connectors
• Feedthrough adaptors
• USB 3 Type A
• HDMI receptacles
Options: Nickel or Black Shell Finish

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		USB 3.0, Feedthrough adapter, D Flange, Nickel Finish	Type A / Type A	AC-USB3-AA
		USB 3.0, Feedthrough adapter, D Flange, Black Finish	Type A / Type A	AC-USB3-AAB
		HDMI, Feedthrough adapter, D Flange, Nickel Finish	HDMI / HDMI	AC-HDMI-RR
		HDMI, Feedthrough adapter, D Flange, Black Finish	HDMI / HDMI	AC-HDMI-RRB



PANEL CUTOUT DIMENSIONS
FRONT VIEW

AC-\*\*\*\*



# USB/HDMI TECHNICAL DATA

		VALUE	
<b>GENERAL CHARACTERISTICS</b>	Type	USB 3.0	HDMI 2.0
	Termination	Thru-adaptor	
	Max. Wire Gauge - Stranded Wire	AWG 14 - 2.5mm <sup>2</sup>	
	Flammability rating of insulating plastics	UL94V-0	
	Solderability, complies with	IEC 68-2-20	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	10A (Depends on Mating Connector)	
	Typical Contact Resistance	≤10mΩ (Depends on Mating Connector)	
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥ 10 <sup>9</sup> Meg Ω	
	Dielectric Strength	1500 V dc	
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40	
	Operating Temperature	-25°C to +75°C (-13°F to +167°F)	
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	≥10N - ≤30N (depends on mating connector)	
	Cable O.D.	3mm to 7mm (0.118" to 0.275")	
	Mechanical Operations	500 mating cycles	
	Weight - Cable Mount - Panel Mount	18g (0.039lb) 30g (0.066lb)	
<b>MATERIALS</b>	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3	
	Connector Shell Finish	Satin Nickel or Coloured Polyester	
	Insulators	PA66	
	Cable Bushing	Thermoplastic Polyurethane	
	Contacts	Brass Alloy	
	Plating	Gold Flash	

Rev 1 - 06/2019

<sup>1)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



# 1/4" PHONE CONNECTORS

Amphenol offers two ranges of 1/4" Phone plug connectors to satisfy the needs of the manufacturer and the end user. The PRO – a heavy duty on-road plug and the MUSICIAN - a solid performing general use plug. Both series offer different features and benefits and the most suitable type will be determined by application, budget and personal choice.

## Applications

- Audio Cables and Snakes
- Amplifiers
- Mixing desks
- Patch panel

### PRO RANGE 1/4" Phone Plug T-Series

#### Features / Options

- Mono or Stereo (TRS)
- Switching Plugs
- Nickel or Gold contact plating
- Straight or Right Angle
- Optional heavy duty metal backshell / boot
- Increased solder area on ground contact
- "Jaws" Cable Clamp
- Precision machined contacts
- Coloured Grommet
- JUMBO Series Plugs

### PRO RANGE 1/4" Phone Plug Q-Series

#### Features / Options

- Mono or Stereo (TRS)
- Slimline design
- Quick and Easy to assemble
- Nickel or Gold contact plating
- Chuck style cable clamp
- Nickel or Black shell finish
- Molded backshell

### MUSICIAN RANGE 1/4" Phone Plug

#### Features / Options

- Mono or Stereo (TRS)
- Compact Shell
- Straight or Right angle
- Flexible grommet cable protection
- Nickel or Gold contact plating
- Satin Nickel or Black finish
- Coloured Grommet

## Jaws Cable Clamp Options for T-Series\*



Standard Jaws cable clamp (Black), Cable O.D 3mm to 6mm (0.118" to 0.236")



Large Jaws cable clamp (Purple), Cable O.D 6mm to 7mm (0.236" to 0.275")

\*Note: Applicable to T-Series straight cable connectors only. Refer to page 101 for right angle connector Jaws cable clamp specifications.

## Chuck Clamp for Q-Series



Standard Chuck clamp (Black), Cable O.D 3mm to 7mm (0.118" to 0.275")

## Musician Range Cable Clamp Options



M-Series, Cable O.D 3mm to 6.5mm (0.118" to 0.256")



M-Series II, Cable O.D 6.5mm to 8mm (0.256" to 0.315")

## Ordering Codes

We have listed the more common ordering codes in each section. Refer to our 1/4" plug product feature matrix found on the next page for assistance on selecting the right plug for your application.

### 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.
- 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.

# 1/4" PLUG FEATURE MATRIX

FEATURES		T SERIES (STRAIGHT)	T SERIES (RIGHT ANGLE)	JUMBO T SERIES	SWITCHPLUG T SERIES (STRAIGHT)	SWITCHPLUG T SERIES (RIGHT ANGLE)	Q SERIES (STRAIGHT)	M SERIES	M SERIES II	CUSTOM SERIES <sup>1</sup>
PRECISION MACHINED CONTACTS		X	X	X	X	X	X	X	X	X
CENTER CONTACT	1 pc. Center Contact	X	X	X	X	X				X*
	2 pc Press Fit Tip/Center Contact						X	X	X	X*
BARREL:	Machined Tube	X	X	X	X	X				
	Precision Extruded Tube						X	X	X	X
JAWS CABLE CLAMP		X	X		X	X				
MIN. CABLE OD	Black Jaw: 3mm/0.118"	X	X		X	X				
	Purple Jaw: 6mm/0.236"	X			X					
	Purple Jaw: 5.5mm/0.216"		X			X				
MAX. CABLE OD	Black Jaw: 6mm/0.236"	X			X					
	Black Jaw: 5.5mm/0.216"		X			X				
	Purple Jaw: 7.5mm/0.295"	X			X					
	Purple Jaw: 6.5mm/0.255"		X			X				
CHUCK CABLE CLAMP										
MIN. CABLE OD	Black Chuck: 3.5mm/0.137"						X			
MAX. CABLE OD	Black Jaw: 7mm/0.275"						X			
STANDARD CABLE CLAMP				X				X	X	X
MIN. CABLE OD	7.5mm/0.295"			X						
MAX. CABLE OD	6mm/0.236"							X		
	8mm/0.315"								X	
	8.8mm/0.345"									X
	10.5mm/0.413"			X						
BACKSHELL FINISH	Satin Nickel	X	X	X	X	X	X	X	X	
	Black	X	X	X	X	X	X	X	X	
	Bright Nickel									X
	Bright Gold									X
CONTACT MATERIAL/ FINISH OPTIONS	Brass/Nickel (Ni)	X	X	X	X	X	X	X	X	X
	Brass/Gold over 2µm (Ni)	X	X	X	X	X	X	X	X	X

<sup>1</sup>Custom Series - Minimum order quantities apply. Contact us for further details.

# Plugs & Jacks

## T-Series Plugs



## T-Series

### Features:

- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
- Straight or Right Angle.
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Keyed shell.
- Optional heavy duty metal backshell / boot.
- Great solderability.
- Increased solder area on ground contact.
- "Jaws" Cable Clamp.
- Precision machined contacts.
- Quick and easy assembly.


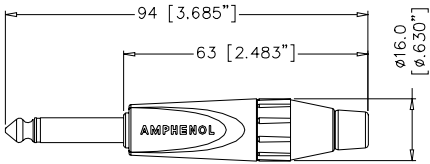

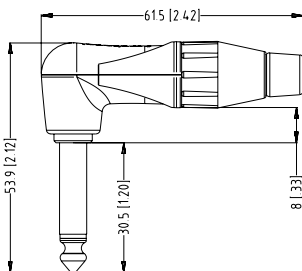

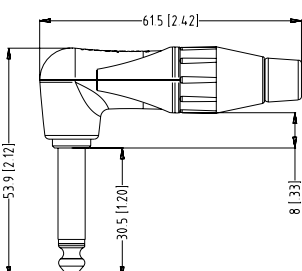

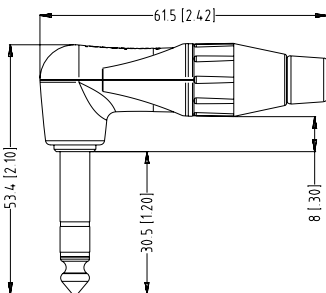

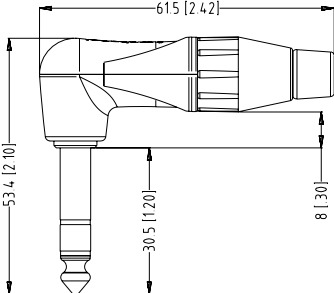
**Options:** Gold Contacts, Large or Small Jaws Cable Clamp, Black Shell, Metal Backshell / Boot, Bulk Pack. Coloured grommets (ordered separately)

**Part Number Breakdown:** [Page 97](#)    **Specifications:** [Page 98](#)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Thermoplastic back-shell, Satin finish.	Standard	TM2P
			Gold Plated Contacts	TM2P-AU
			Large Cable Clamp	TM2PJ
			Bulk Pack	TM2P BULK
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Thermoplastic back-shell, Black finish.	Standard	TM2PB
			Gold Plated Contacts	TM2PB-AU
			Large Cable Clamp	TM2PBJ
			Bulk Pack	TM2PB BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Thermoplastic back-shell, Satin finish.	Standard	TS3P
			Gold Plated Contacts	TS3P-AU
			Large Cable Clamp	TS3PJ
			Bulk Pack	TS3P BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Thermoplastic back-shell, Black finish.	Standard	TS3PB
			Gold Plated Contacts	TS3PB-AU
			Large Cable Clamp	TS3PBJ
			Bulk Pack	TS3PB BULK

# Plugs & Jacks

## T-Series Plugs

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard	TM2PN
				Gold Plated Contacts	TM2PN-AU
				Large Cable Clamp	TM2PNJ
				Bulk Pack	TM2PN BULK
			1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell, Satin finish.	Standard	TM2RJ
				Gold Plated Contacts	TM2RJ-AU
			1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell, Black finish.	Standard	TM2RBJ
				Gold Plated Contacts	TM2RBJ-AU
				Bulk Pack	TM2RBJ BULK
			1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell, Satin finish.	Standard	TS3RJ
				Gold Plated Contacts	TS3RJ-AU
			1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell, Black finish.	Standard	TS3RBJ
				Gold Plated Contacts	TS3RBJ-AU

\*NOTE: Refer to page 101 for Jaws cable clamp specifications applicable to right angle connectors.

# Plugs & Jacks

## T-Series Jumbo Plugs



## T-Series (Jumbo)

### Features:

- JUMBO Cable clamping capacity
- Suits Cable OD 7.5mm (0.295") to 10.5mm (0.413")
- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Keyed shell.
- Great solderability.
- Increased solder area on ground contact.
- Precision machined contacts.
- Quick and easy assembly.

**Options:** Gold Contacts, Bulk Pack

**Specifications:** [Page 101](#)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mm) JUMBO Mono Phone plug, Thermoplastic back-shell, Satin finish.	Standard	JM2P
			Gold Plated Contacts	JM2P-AU
			Bulk Pack	JM2P BULK
		1/4" (6.35mm) JUMBO Mono Phone plug, Thermoplastic back-shell, Black finish.	Standard	JM2PB
			Gold Plated Contacts	JM2PB-AU
		1/4" (6.35mm) JUMBO Stereo Phone plug, Thermoplastic back-shell, Satin finish.	Standard	JS3P
			Gold Plated Contacts	JS3P-AU
		1/4" (6.35mm) JUMBO Stereo Phone plug, Thermoplastic back-shell, Black finish.	Standard	JS3PB
			Gold Plated Contacts	JS3PB-AU

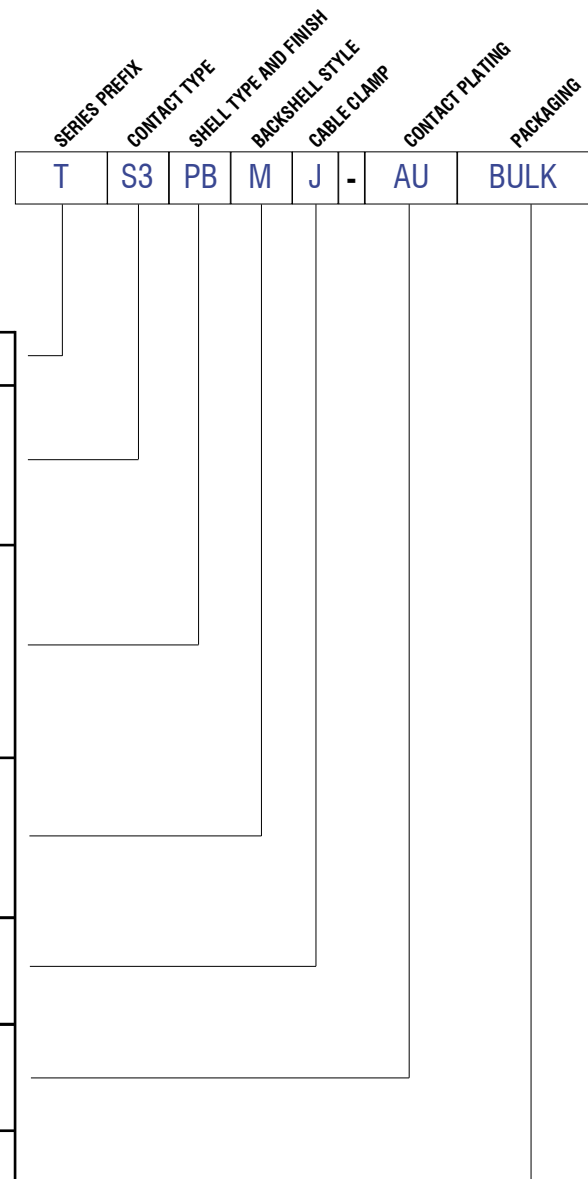
NOTE: Contact factory for availability of metal backshells.

# PART NUMBER BREAKDOWN

## T-SERIES (PRO RANGE)

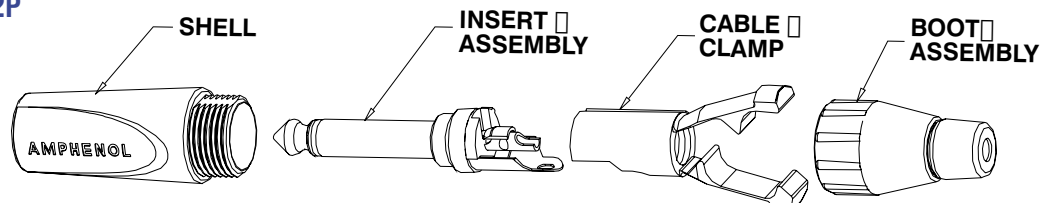
E. G. **TS3PBMJ-AU BULK**

**T** (Series Prefix), **S3**(Stereo), **Plug Black**, **Metal Nut (Black)**, **J** (Large Jaws),  
- **AU** (Gold Plated Contacts), **Bulk** Packaged.



<b>SERIES PREFIX</b>	T	=	Series Prefix
<b>CONTACT TYPE</b>	M1	=	Switch Plug
	M2	=	2 Pole (mono)
	S3	=	3 Pole, tip/ring/sleeve (stereo)
<b>SHELL TYPE AND FINISH</b>	P	=	Plug Satin Nickel
	PB	=	Plug Matt Black
	R	=	Right Angle Plug Satin Nickel
	RB	=	Right Angle Plug Matt Black
<b>BACKSHELL TYPE</b>	Blank	=	Plastic Nut
	M	=	Metal Nut - Black
	N	=	Metal Nut - Satin Nickel
<b>CABLE CLAMP</b>	Blank	=	Small Jaws
	J	=	Large Jaws
<b>CONTACT PLATING</b>	Blank	=	Nickel Plated Contacts (Standard)
	AU	=	Gold Plated Contacts
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed

### ISO VIEW OF TM2P





## Plugs & Jacks

### T-Series SwitchPlug



## T-Series SwitchPlug

The Amphenol T series SwitchPlug uses a unique 360 degree precision sliding helical spring contact design to quietly and accurately switch the signal circuit safely to ground during instrument changes under load, thereby avoiding annoying thumps, pops and squeals. The sliding ring contact self-cleans every time the plug is connected preventing excessive build up of oxidation and contamination. Activation is directly off the jacks full front face assuring a positive reference point every time, and as it works instantaneously on the main circuits there is no need for the use of magnets or other elaborate switching mechanisms.

**WARNING!**  
For use with  
instrument (guitar)  
applications only.

**Part Number Breakdown: Page 97  
Specifications: Page 101**

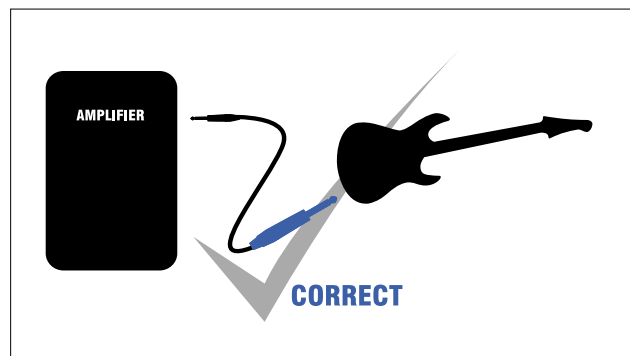
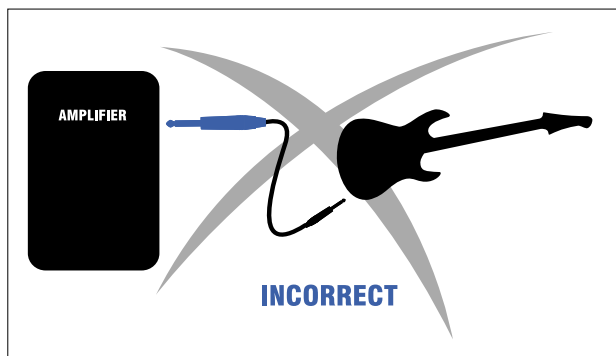
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mm) Switch Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish	Standard	TM1P
				Gold Plated Contacts	TM1P-AU
				Large Cable Clamp	TM1PJ
			1/4" (6.35mm) Switch Phone plug, Jaws cable clamp, Thermoplastic backshell, Black finish	Standard	TM1PB
				Gold Plated Contacts	TM1PB-AU
				Large Cable Clamp	TM1PBJ
			1/4" (6.35mm) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin Finish	Standard	TM1RJ*
				Gold Plated Contacts	TM1RJ-AU*
			1/4" (6.35mm) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Black Finish	Standard	TM1RBJ*
				Gold Plated Contacts	TM1RBJ-AU*

\*NOTE: Refer to page Page 101 for Jaws cable clamp specifications applicable to right angle connectors.

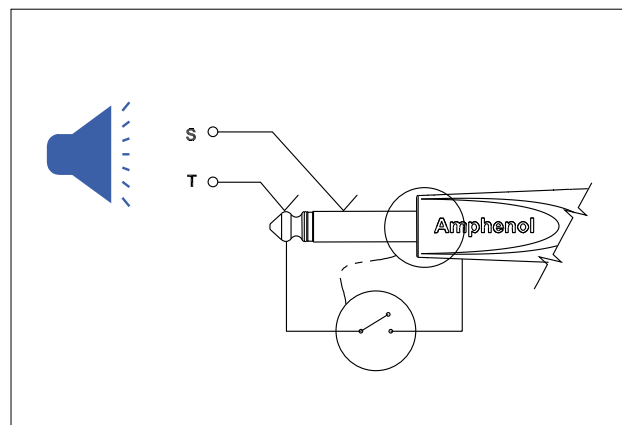
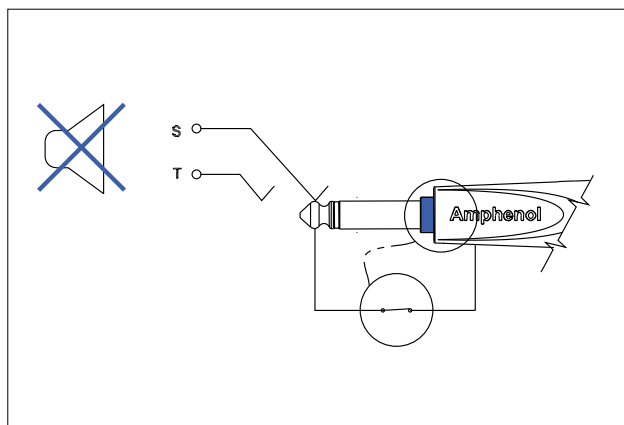
## SwitchPlug - User Instruction



Use with instrument (guitar) cables only.  
DO NOT connect to amplifier output.  
Equipment damage may result from incorrect use.



## SwitchPlug - Technology\*



\*US Patent No. 8,162,697

# Plugs & Jacks

## Q-Series Plugs



## Q-Series

### Features:

- Mono or Stereo (TRS)
- Slimline design
- Quick and Easy to assemble
- Nickel or Gold contact plating
- Chuck style cable clamp
- Nickel or Black shell finish
- Molded backshell

**Options:** Gold Plated Contacts, Black Shell, Bulk Pack.

**Specifications:** [Page 101](#)

### Clamp Info:



Cable O.D 6.5mm to 8mm (0.256" to 0.315")

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Chuck cable clamp, Molded boot, Satin Finish	Standard	QM2P
		1/4" (6.35mmø) Mono Phone plug, Chuck cable clamp, Molded boot, Black Finish	Gold Plated Contacts	QM2PB-AU
		1/4" (6.35mmø) Stereo Phone plug, Chuck cable clamp, Molded boot, Satin Finish	Standard	QS3P
		1/4" (6.35mmø) Stereo Phone plug, Chuck cable clamp, Molded boot, Black Finish	Gold Plated Contacts	QS3PB-AU

# 1/4" PHONE PLUG TECHNICAL DATA

		VALUE		
		Straight	Right Angle	Jumbo
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	3 Pole Tip Ring Sleeve (Stereo)		
	Termination	Solder		
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16 - 1.5mm 3 Pole (Stereo): AWG 18 - 1mm		
	Flammability rating of insulating plastics	UL94V-0		
	Solderability, complies with	IEC 68-2-20		
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU		
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)		
	Typical Contact Resistance	Depends on Mating Connector		
	Insulation Resistance (initial)	>2GΩ		
	After Damp Heat Test	≥1GΩ		
	Dielectric Withstand Voltage	2 Pole : 1.5 kV dc 3 Pole : 1 kV dc		
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40		
	Operating Temperature	-25°C to +75°C (-13°F to + 167°F)		
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force		≥10N - ≤30N	
	Weight <sup>1</sup>	Thermoplastic Backshell	28g (0.061lb)	
		Metal Backshell	35g (0.077lb)	
	Typical Cable Retention Force		22kg to 44kg (50lb to 100lb) - Dependent on cable material and diameter.	
	Cable O.D.	Standard Jaw (T-Series)	3mm to 6mm (0.118" to 0.236")	3mm to 5.5mm (0.118" to 0.216") N/A
		Large Jaw (T-Series)	6mm to 7mm (0.236" to 0.275")	5.5mm to 6.5mm (0.216" to 0.255") N/A
		Standard Clamp (Q-Series)	3.5mm to 7mm (0.137" to 0.275")	N/A N/A
		Jumbo	NA	7.5mm to 10.5mm (0.295" to 0.413")
	Mechanical Operations		1000	
<b>MATERIALS</b>	Connector Shell Material		Diecast Zinc Alloy EZDA No.3	
	Shell Finish		Satin Nickel or Black Polyester	
	Insulators		UL94 V-0 PBT Resin or Modified PPE Resin - Black	
	Boot / Backshell		UL94 V-0 PBT Resin or Modified PPE Resin - Black or Metal CuZn <sup>39</sup> Pb <sup>3</sup>	
	Cable Clamp		UL94 V-0 PBT Modified PPO Resin - Black	
	Cable Bushing		Santoprene	
	Contacts / Plating		Brass/Ni or Au over 2μm Ni	

Rev 6 - 10/2017

<sup>1</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

# Plugs & Jacks

## Musician Series II Plugs



# Musician Series II

**Features:**

- Mono or Stereo (TRS).
- AX Series inspired shell design.
- Large cable O.D. Entry to 8mm (0.315")
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- Standard or Bulk packaging.

**Clamp Info:**

Cable O.D 6.5mm to 8mm (0.256" to 0.315")

**Options:** Black Shell, Gold contacts.  
 Coloured grommets (ordered separately)


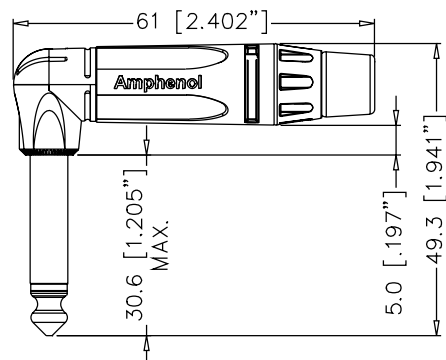

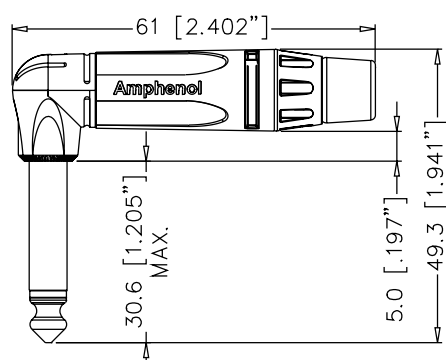

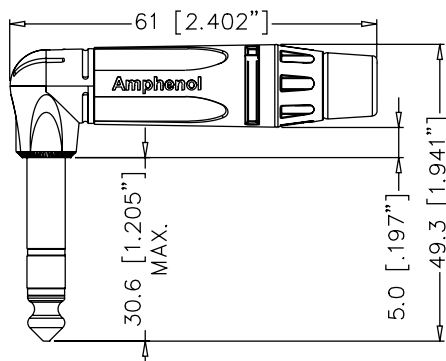

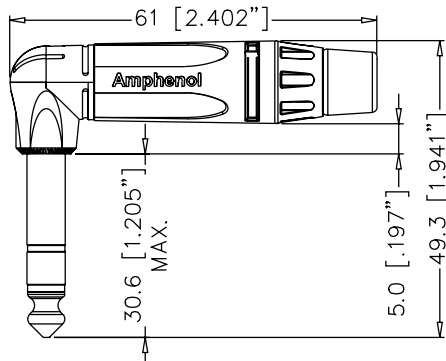
Specifications: Page 112

PRODUCT	DRAWING <small>Dimensions in mm (inches)</small>	DESCRIPTION	VARIATIONS	PART NO.
		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPM-KN
			Gold Plated Contacts	ACPM-KN-AU
		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPM-KB
			Gold Plated Contacts	ACPM-KB-AU
		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-KN
			Gold Plated Contacts	ACPS-KN-AU
		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-KB
			Gold Plated Contacts	ACPS-KB-AU

\*NOTE: Refer to page 103 for Jaws cable clamp specifications applicable to right angle connectors.

# Plugs & Jacks

## Musician Series II Plugs

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
		1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	<a href="#">ACPM-TN</a>
			Gold Contacts	<a href="#">ACPM-TN-AU</a>
			Bulk Pack	<a href="#">ACPM-TN BULK</a>
		1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.	Standard	<a href="#">ACPM-TB</a>
			Gold Contacts	<a href="#">ACPM-TB-AU</a>
			Bulk Pack	<a href="#">ACPM-TB BULK</a>
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	<a href="#">ACPS-TN</a>
			Gold Contacts	<a href="#">ACPS-TN-AU</a>
			Bulk Pack	<a href="#">ACPS-TN BULK</a>
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.	Standard	<a href="#">ACPS-TB</a>
			Gold Contacts	<a href="#">ACPS-TB-AU</a>
			Bulk Pack	<a href="#">ACPS-TB BULK</a>

# Plugs & Jacks

## Musician Series II Plugs



### Features:

- Mono or Stereo (TRS).
- Stylish shell design.
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- Standard or Bulk packaging.
- Cable OD Entry to 6.5mm (0.256")

**Options:** Black Shell, Gold contacts.  
Coloured grommets (ordered separately)

**Specifications:** [Page 115](#)

### Clamp Info:




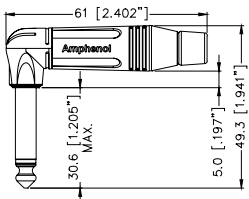

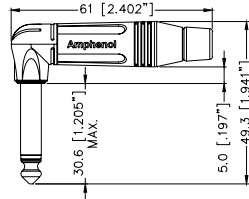

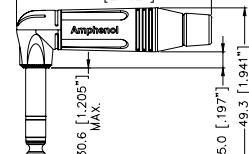

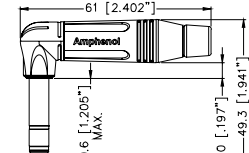
Cable O.D 3mm to 6.5mm  
(0.118" to 0.256")

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPM-GN
				Gold Plated Contacts	ACPM-GN-AU
				Bulk Pack	ACPM-GN BULK
			1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPM-GB
				Gold Plated Contacts	ACPM-GB-AU
				Bulk Pack	ACPM-GB BULK
			1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-GN
				Gold Plated Contacts	ACPS-GN-AU
				Bulk Pack	ACPS-GN BULK
			1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-GB
				Gold Plated Contacts	ACPS-GB-AU
				Bulk Pack	ACPS-GB BULK



# Plugs & Jacks

## Musician Series II Plugs

PRODUCT - FIGURE	DRAWING	DESCRIPTION	TYPE	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPM-RN
			Gold contacts	ACPM-RN-AU
			Bulk Pack	ACPM-RN BULK
		1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPM-RB
			Gold contacts	ACPM-RB-AU
			Bulk Pack	ACPM-RB BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-RN
			Gold contacts	ACPS-RN-AU
			Bulk Pack	ACPS-RN BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-RB
			Gold contacts	ACPS-RB-AU
			Bulk Pack	ACPS-RB BULK

PART NUMBER BREAKDOWN

M / M SERIES II (MUSICIAN RANGE)

E. G. **ACPM-GB-AU BULK**  
**ACP** (Series Prefix), **M**ale, **G**(Shell Type), **B**lack,  
- **AU** (Gold Plated Contacts), **Bulk** Packaged.

<b>SERIES PREFIX</b>	ACP	=	Series Prefix
<b>CONTACT TYPE</b>	M	=	2 pole (Mono)
	S	=	3 pole Tip/Ring/Sleeve (Stereo)
<b>SHELL TYPE</b>	G	=	M Series Straight
	K	=	M Series II Straight
	R	=	M Series Right Angle
	T	=	M Series II Right Angle
<b>SHELL FINISH</b>	N	=	Satin Nickel
	B	=	Matt Black
<b>CONTACT PLATING</b>	Blank	=	Nickel Plating
	AU	=	Gold Plated
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed

SERIES PREFIXCONTACT TYPESHELL TYPESHELL FINISHCONTACT PLATINGPACKAGING

ACP	S	G	B	-	AU	BULK
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# 1/4" PHONE JACK CONNECTORS

Amphenol phone connectors are available in 1/4" (6.35mm) and 3.5mm jack sockets or dual jack socket versions featuring combinations of both sizes. The standard heavy duty contacts provide excellent signal performance and the rugged designs excel in professional audio applications. Our wide range of options ensures we have the connector to suit your specific requirements. Custom jacks can also be developed to suit unique applications on request.



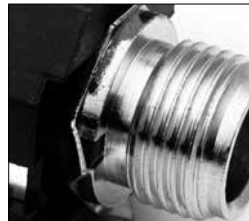
## Applications

- Audio Cables and Snakes
- Amplifiers
- Speakers
- Mixing desks
- Rack mount equipment
- Patch panel

## Features / Options – OEM RANGE Phone Jack

- Mono or Stereo (TRS)
- Stackable (Piggy back) mounting
- Vertical or horizontal PCB mount
- Mono and Stereo switched contacts
- Solder contacts
- Combo Contacts
- Metal nut
- Plastic Nut
- 1/4" (6.35mm)
- 3.5mm
- Dual 1/4" (6.35mm) and 3.5mm
- EMI Shielding plates
- Metal Mounting threads
- Plastic Mounting threads
- Chassis Ground connections
- Half, Full or No threads
- Grounded or Isolated Jacks

## 1/4" Phone Jack Grounding/ Shielding Options



1/4" Gripper - Grounding points



1/4" Shielding Plate

## Ordering Codes

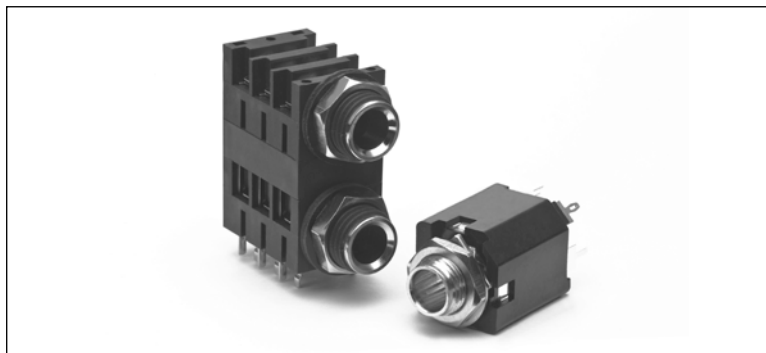
We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

## 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.
- 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.

# Plugs & Jacks

## Musician / OEM Range 1/4" Phone Jacks



### Features:

- 3.5mm and 6.35mm (1/4") options
- Mono or Stereo (TRS)
- Single or Dual mounting
- Vertical or Horizontal PCB mount
- Mono and Stereo with switching contacts
- Solder or Combo contacts
- Various mounting option

**Schematic Chart: Page 113**

**Panel Cutouts: Page 112**


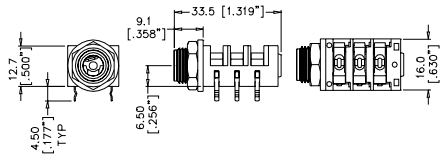

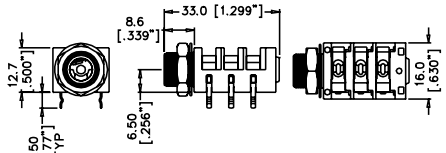

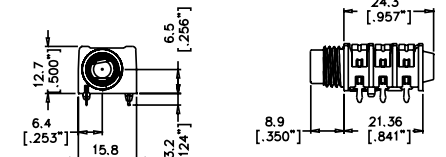

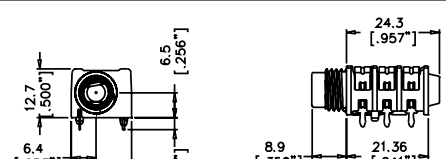

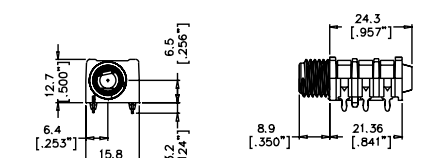

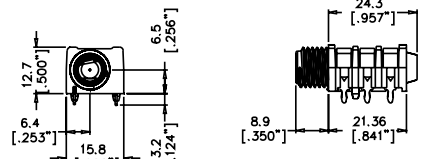



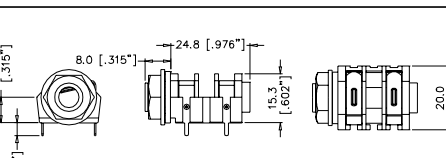
**PCB Footprints: Page 114**

**Specifications: Page 116**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
<b>3.5MM PHONE JACKS</b>				
		3.5mm Jack, Horizontal PCB, Plastic housing, Metal entry bore	Mono	ACJM-NH35
			Stereo	ACJS-NH35
		3.5mm Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal entry bore	Refer to Schematic Chart on page 113	ACJM-NV35-2 ACJM-NV35-2S ACJS-NV35-3 ACJS-NV35-3S ACJS-NV35-5
		3.5mm Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal thread and entry bore	Refer to Schematic Chart on page 113	ACJM-MV35-2 ACJM-MV35-2S ACJS-MV35-3 ACJS-MV35-3S ACJS-MV35-5
		3.5mm / 1/4" (6.35mm) Dual Phone Jack, (Piggyback), Horizontal PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHD985
			Stereo	ACJS-MHD985
		3.5mm / 1/4" (6.35mm) Dual Phone Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal nut and entry bore	Refer to Schematic Chart on page 113	ACJM-MVD985-2 ACJM-MVD985-2S ACJS-MVD985-3 ACJS-MVD985-3S ACJS-MVD985-5
<b>1/4" PHONE JACKS HORIZONTAL</b>				
		1/4" (6.35mm) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Half thread, Metal entry bore. Supplied without mounting hardware.	Mono	ACJM-HHDR
			Stereo	ACJS-HHDR


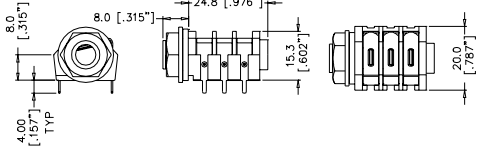

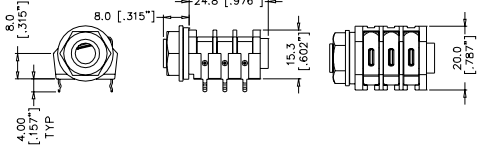

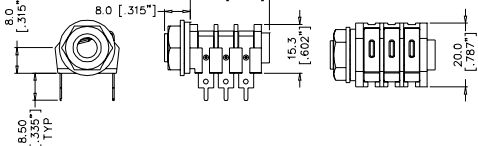

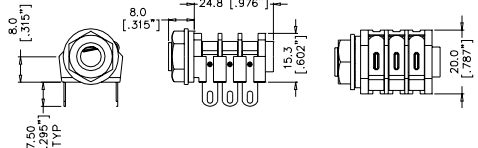

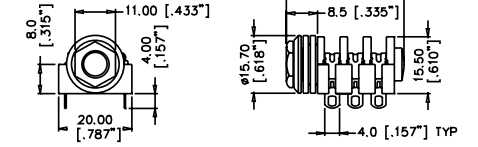

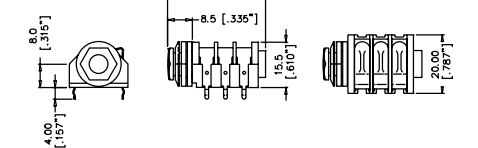

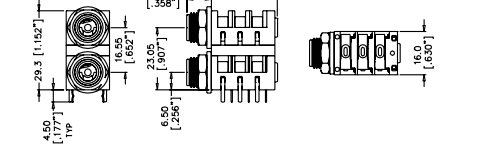

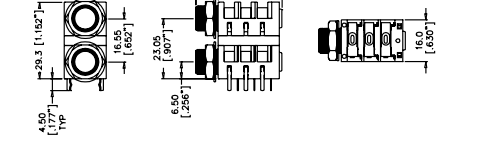
# Plugs & Jacks

## Musician / OEM Range 1/4" Phone Jacks

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mm) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDR
				Stereo	ACJS-MHDR
			1/4" (6.35mm) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore	Mono	ACJM-MHDM
				Stereo	ACJS-MHDM
			1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.	Refer to Schematic Chart on page 113	ACJM-HHOP
					ACJS-HHOP
			1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.	Refer to Schematic Chart on page 113	ACJM-HHOP-1
					ACJS-HHOP-1
			1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore	Mono - Plastic Nut	ACJM-PHOP
				Mono - Metal Nut	ACJM-MHOP
				Stereo - Plastic Nut	ACJS-PHOP
				Stereo - Metal Nut	ACJS-MHOP
			1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore. Non-switching sleeve contact with separate grounding to panel.	Refer to Schematic Chart on Page 110	ACJM-PHOP-1
				PHOP - Denotes Plastic Nut	ACJM-MHOP-1
				MHOP - Denotes Metal Nut	ACJS-PHOP-1
					ACJS-MHOP-1
			1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing, Metal thread and entry bore with Chassis ground connection	Mono - Metal Nut	ACJM-MHOM
				Stereo - Metal Nut	ACJS-MHOM
			1/4" (6.35mm) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
				Mono - Metal Nut	ACJM - MH

# Plugs & Jacks


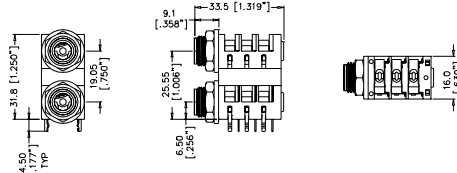
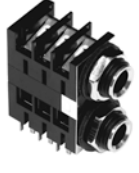
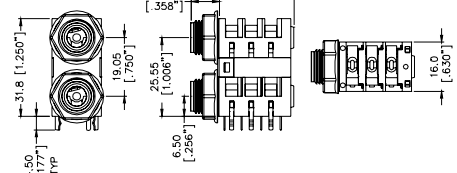

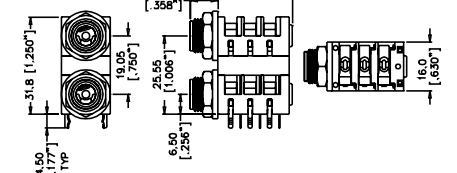

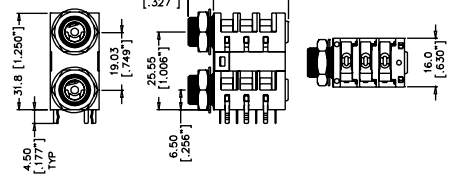

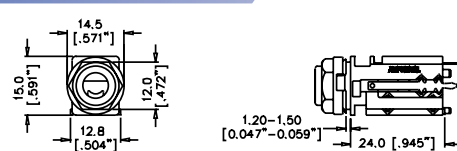

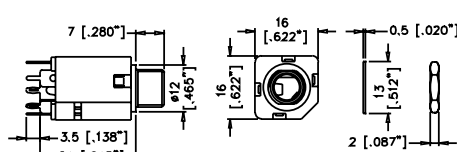

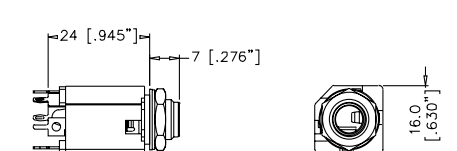
## Musician / OEM Range 1/4" Phone Jacks

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
				Stereo - Metal Nut	ACJS - MH
			1/4" (6.35mmø) Jack, Horizontal Snap-fit PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PHR
				Mono - Metal Nut	ACJM-MHR
				Stereo - Plastic Nut	ACJS-PHR
				Stereo - Metal Nut	ACJS-MHR
			1/4" (6.35mmø) Jack, Combination Horizontal PCB and Solder lug, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PC
				Mono - Metal Nut	ACJM-MC
				Stereo - Plastic Nut	ACJS-PC
				Stereo - Metal Nut	ACJS-MC
			1/4" (6.35mmø) Jack, Solder Lug, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PHS
				Mono - Metal Nut	ACJM-MHS
				Stereo - Plastic Nut	ACJS-PHS
				Stereo - Metal Nut	ACJS-MHS
			1/4" (6.35mmø) Jack, Solder Lug, Plastic housing and Bezel with threaded Metal nut.	Mono	ACJM-IHS
				Stereo	ACJS-IHS
			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing and Bezel with threaded Metal nut.	Mono	ACJM-IH
				Stereo	ACJS-IH
1/4" PHONE JACKS HORIZONTAL DUAL			1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDC
				Stereo	ACJS-MHDC
			1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Mono	ACJM-MHDCM
				Stereo	ACJS-MHDCM



# Plugs & Jacks


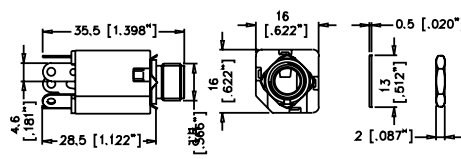
## Musician / OEM Range 1/4" Phone Jacks

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmØ) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHD
				Stereo	ACJS-MHD
			1/4" (6.35mmØ) Dual Phone Jack (Piggyback) Shielding plate, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDE
				Stereo	ACJS-MHDE
			1/4" (6.35mmØ) Dual Phone Jack (Piggyback), Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore	Mono	ACJM-MHDM
				Stereo	ACJS-MHDM
			1/4" (6.35mmØ) Dual Phone Jack (Piggyback), Shielding plate Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Mono	ACJM-MHDEM
				Stereo	ACJS-MHDEM
1/4" PHONE JACKS VERTICAL			1/4" (6.35mmØ) Jack, Vertical PCB mount, Plastic housing, nut and entry bore	Refer to Schematic Chart on page 113	ACJM-PVB-2 ACJM-PVB-2S ACJS-PVB-3 ACJS-PVB-3S ACJS-PVB-5
			1/4" (6.35mmØ) Jack, Vertical PCB mount, Needle eye contacts, Plastic thread, Metal nut and insert	Refer to Schematic Chart on page 113	ACJM-MIV-2 ACJM-MIV-2S ACJS-MIV-3 ACJS-MIV-3S ACJS-MIV-5
			1/4" (6.35mmØ) Jack, Vertical PCB mount, Needle eye contacts, Star washer, Metal nut and insert	Refer to Schematic Chart on page 113	ACJM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-3S ACJS-MN-5
			1/4" (6.35mmØ) Jack, Vertical PCB mount, Metal nut and insert	Refer to Schematic Chart on page 113	ACJM-MV-2 ACJM-MV-2S ACJS-MV-3 ACJS-MV-3S ACJS-MV-5



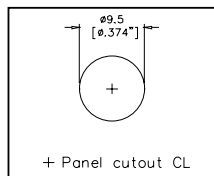
## Plugs & Jacks

Musician / OEM Range 1/4" Phone Jacks

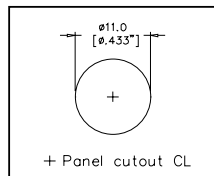
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mm) Jack, Solder Lug, Metal nut and insert	Refer to Schematic Chart on Page 110	<a href="#">ACJM-MVS-2</a> <a href="#">ACJM-MVS-2S</a> <a href="#">ACJS-MVS-3</a> <a href="#">ACJS-MVS-3S</a> <a href="#">ACJS-MVS-5</a>

## PANEL CUTOUTS

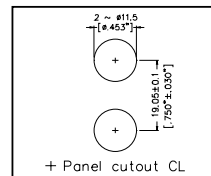
-FRONT VIEW



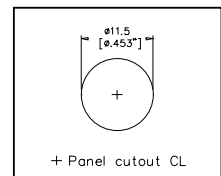
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ACJS-MV  
ACJM-MN-2  
ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJS-MN-5  
ACJM-MIV  
ACJS-MIV  
ACJM-MVS  
ACJS-MVS



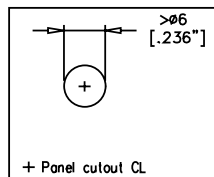
ACJM/S-PH  
ACJM/S-MH  
ACJM/S-PC  
ACJM/S-MC  
ACJM/S-PHR  
ACJM/S-MHR  
ACJM/S-PHS  
ACJM/S-MHS



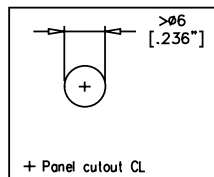
ACJM-MHD  
ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE



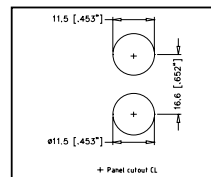
ACJM-MHDR  
ACJS-MHDR  
ACJS-HHDR



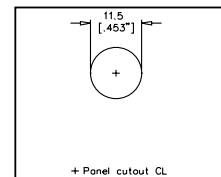
ACJM-NH35  
ACJS-NH35



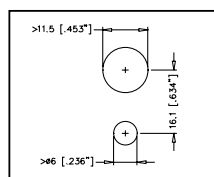
ACJM-NV35-2  
ACJM-NV35-2S  
ACJS-NV-35-3  
ACJS-NV-35-3S  
ACJS-NV-35-5  
ACJM-MV35-2  
ACJM-MV35-2S  
ACJS-MV-35-3  
ACJS-MV-35-3S  
ACJS-MV-35-5



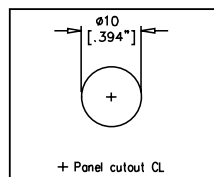
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ACJM-MHDC



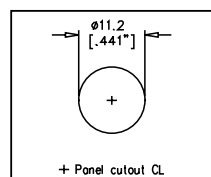
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ACJS-IHS  
ACJM-IHS



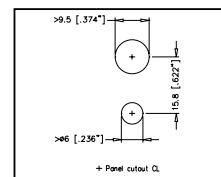
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ACJM-MHD985



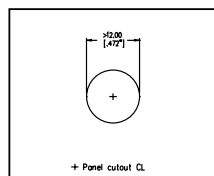
ACJS-MHOM  
ACJM-MHOM



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ACJS-PHOP  
ACJM-MHOP  
ACJM-PHOP  
ACJS-MHOP-1  
ACJS-PHOP-1  
ACJM-PHOP-1  
ACJM-MHOP-1  
ACJM-PHOP-1  
ACJS-PHOP  
ACJS-MHOP



ACJS-MVD985  
ACJM-MVD985



ACJM-PVB-2  
ACJM-PVB-2S  
ACJS-PVB-3  
ACJS-PVB-3S  
ACJS-PVB-5

### SCHEMATIC CHART

PART NO.	ACJM-MV35-2 ACJM-MN-2 ACJM-NV35-2 ACJM-PVB-2 ACJM-MV-2 ACJM-MVS-2 ACJM-MIV-2	ACJM-MV35-2S ACJM-MN-2S ACJM-NV35-2S ACJM-PVB-2S ACJM-MV-2S ACJM-MVS-2S ACJM-MIV-2S	ACJS-MV35-3 ACJS-MN-3 ACJS-NV35-3 ACJS-PVB-3 ACJS-MV-3 ACJS-MVS-3 ACJS-MIV-3	ACJS-MV35-3S ACJS-MN-3S ACJS-NV35-3S ACJS-PVB-3S ACJS-MV-3S ACJS-MVS-3S ACJS-MIV-3S	ACJS-MV35-5 ACJS-MN-5 ACJS-NV35-5 ACJS-PVB-5 ACJS-MV-5 ACJS-MVS-5 ACJS-MIV-5
GENERAL SCHEMATIC					

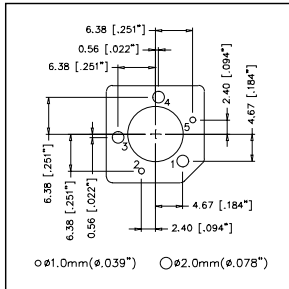
PART NO.	ACJM-MVD985-2	ACJM-MVD985-2S	ACJS-MVD985-3	ACJS-MVD985-3S	ACJS-MVD985-5
SCHEMATIC					

PART NO.	ACJM-HHOP-1 ACJM-PHOP-1 ACJM-MHOP-1	ACJS-HHOP-1 ACJS-PHOP-1 ACJS-MHOP-1	ACJM-HHOP ACJM-PHOP ACJM-MHOP	ACJS-HHOP ACJS-PHOP ACJS-MHOP
GENERAL SCHEMATIC				

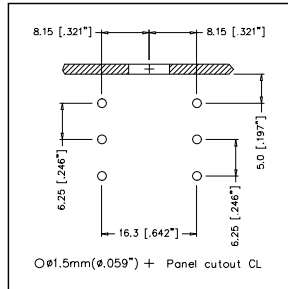
# Plugs & Jacks

Musician / OEM Range 1/4" Phone Jacks

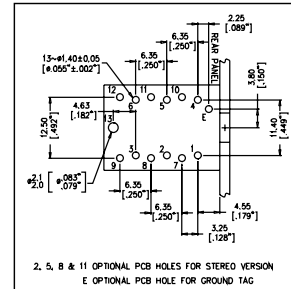
## PCB FOOTPRINT - CONNECTOR SIDE OF PCB



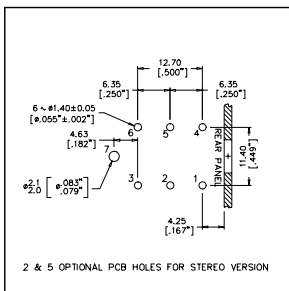
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ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJM-MN-5  
ACJS-MN-5  
ACJM-NV35-XX  
ACJS-NV35-XX  
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ACJS-MIV-3S  
ACJM-MIV-5  
ACJS-MIV-5



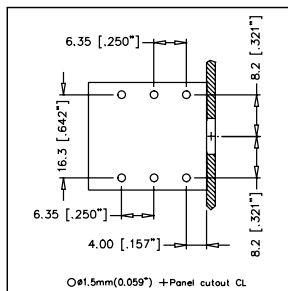
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ACJM-MH  
ACJS-PH  
ACJS-MH  
ACJM-MH-2S  
ACJS-MH-2S  
ACJM-MC  
ACJS-MC



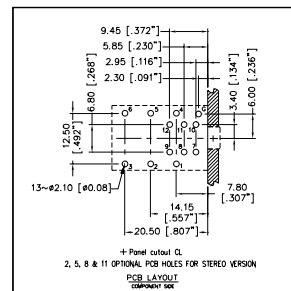
ACJM-MHD  
ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE  
ACJM-MHDEM  
ACJS-MHDEM  
ACJM-MHDC  
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ACJM-MHDCM  
ACJS-MHDCM  
ACJM-MHDM  
ACJS-MHDM



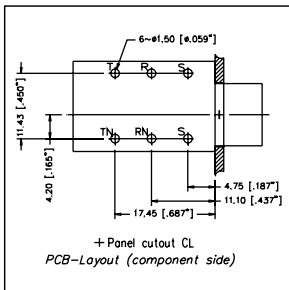
ACJM-MHDR  
ACJS-MHDR  
ACJM-PHR  
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ACJM-MHR  
ACJS-MHR  
ACJM-HHDR  
ACJS-HHDR  
ACJM-MHDM  
ACJS-MHDM



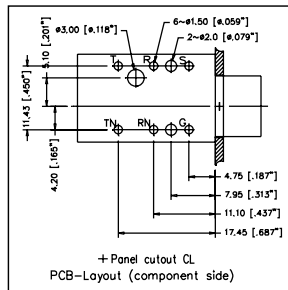
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ACJM-IH



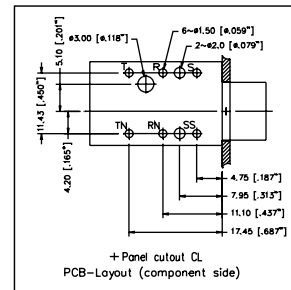
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ACJM-MHD985



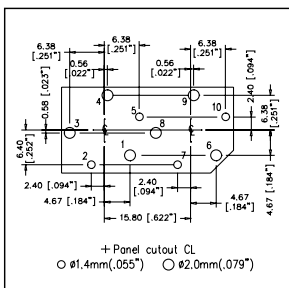
ACJS-MHOM  
ACJM-MHOM



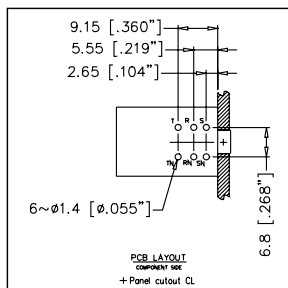
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ACJS-PHOP-1  
ACJS-HHOP-1  
ACJM-MHOP-1  
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ACJM-HHOP-1



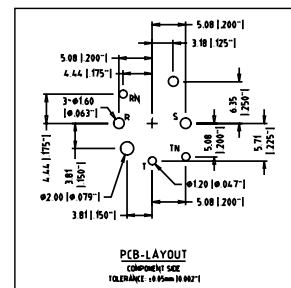
ACJS-MHOP  
ACJS-PHOP  
ACJM-MHOP  
ACJM-PHOP  
ACJM-HHOP  
ACJS-HHOP



ACJS-MVD985  
ACJM-MVD985



ACJS-NH35  
ACJM-NH35



ACJM-PVB-2  
ACJS-PVB-2S  
ACJS-PVB-3  
ACJS-PVB-3S  
ACJS-PVB-5

## 1/4" PLUGS TECHNICAL DATA

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16 ~ 1.5mm <sup>2</sup> 3 Pole (Stereo): AWG 18 ~ 1mm <sup>2</sup>
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)
	Typical Contact Resistance	Depends on Mating Connector
	Insulation resistance (initial) After Damp Heat Test	> 2GΩ ≥ 1GΩ
	Dielectric Withstand Voltage	2 Pole : 1.5 kV dc 3 Pole : 1 kV dc
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-25°C to +70°C (-13°F to 158°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	≥ 10N - ≤ 30N
	Mating Cycles	Min. of 1000 cycles without any physical damage
	Cable O.D. - M Series - M Series II	3mm to 6.5mm (0.118" to 0.256") 6.5mm to 8mm (0.256" to 0.315")
<b>MATERIALS</b>	Connector Shell Material	Diecast Zinc Alloy EZDA No.3
	Connector Shell Finish	Satin Nickel or Black Polyester
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin and fibreglass laminate
	Cable Bushing	Santoprene
	Contact Plating	Brass / Ni over Cu (Copper)

Rev 4 - 05/2014

<sup>1)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

# Plugs & Jacks

Musician / OEM Range 1/4" Phone Jacks

## 1/4" JACKS TECHNICAL DATA

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder, PCB or Combo
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)
	Typical Contact Resistance	≤10mΩ
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥10 <sup>3</sup> Meg Ω
	Rated Voltage Test Voltage AC RMS: Dielectric Strength	34V 500V
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-25°C to +70°C (-13°F to 158°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	≥10N - ≤30N
	Mating Cycles	Min. of 1000 cycles without any physical damage
	Weight - Straight - Right Angle	18g (0.039lb) 25g (0.055lb)
<b>MATERIALS</b>	Connector Housing	Nylon PA66 30% Glass Filled
	Metal Nut	Brass
	Plastic Nut	Nylon PA66 30% Glass Filled
	Washer	Fiber / Brass / Nylon PA66 30% Glass Filled
	Contact Plating	Tin - 4μm Min. over 2μm Min.Cu (Copper) Silver - 0.3μm Min. over 2μm Min.Cu (Copper) Nickel - 2μm Min. over 2μm Min.Cu (Copper) Gold Flash - 0.05μm Min. over 2μm Min.Cu (Copper)
	Contacts	Brass / Sn (Tin) over Cu (Copper)

<sup>1</sup>Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

Rev 5 - 09/2017



## PLUGS AND SOCKETS

Amphenol's plugs and sockets range continually expands to meet the needs of our customers. The success of the M-Series phone plugs led to the RCA series being developed. The Miniature XLR range was a natural progression from our standard XLR series as demand for smaller interconnects increased. The latest addition to the range is a professional grade 3.5mm phone plug designed for applications that require a robust interconnect.

### Applications

- Audio Cables and Snakes
- Amplifiers
- Speakers
- Mixing desks
- Rack mount equipment
- Patch panel

### Features / Options – RCA Plugs and Jacks

- Red, Black, White, Yellow, Blue or Green shell colours
- Stylish shell design
- Flexible grommet cable protection
- Gold Plated Contacts

### Features / Options – Miniature XLR

- 3, 4, 5, or 6 contacts
- Solder cup
- Printed Circuit Board
- Vertical or Horizontal mounting
- Positive locking latch
- Flexible cable clamp
- Metal cable clamp
- Locking rings
- Chassis front mount
- Chassis middle or rear mount (on request)
- Optional black finish (on request)

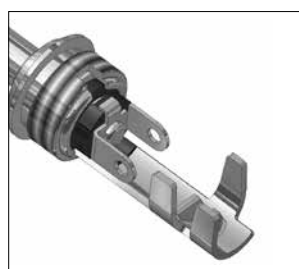
### Features / Options – 3.5mm Plugs Phone Jack

- Mono / Stereo TRS
- Solder contacts
- Suits cable O.D 2.5mm to 5mm
- Stylised shell design
- Flexible cable grommet
- Metal cable clamp
- Nickel or Gold contact plating
- Satin Nickel or Black finish

### Cable Clamp Options



RCA Cable Clamp - M-Series, Cable O.D 3mm to 6.5mm (0.118" to 0.256")



K-Series, Cable O.D 3mm to 5mm (0.118" to 0.196")

### Ordering Codes

We have listed the more common ordering codes in each section. 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.
- 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.

# Plugs & Jacks

## K-Series Plugs (3.5mm) Plugs



## K-Series (3.5mm)

### Features:

- Mono or TRS (Stereo).
- AX Series inspired shell design.
- Suits Cable O.D from 2.5mm to 5mm (0.098" to 0.196")
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- Standard or Bulk packaging.

**Options:** Black Shell, Gold contacts.

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		3.5mm, Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	KM2P
			Gold Plated Contacts	KM2P-AU
			Bulk Pack	KM2P BULK
		3.5mm, Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	KM2PB
			Gold Plated Contacts	KM2PB-AU
			Bulk Pack	KM2PB BULK
		3.5mm, Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	KS3P
			Gold Plated Contacts	KS3P-AU
			Bulk Pack	KS3P BULK
		3.5mm, Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	KS3PB
			Gold Plated Contacts	KS3PB-AU
			Bulk Pack	KS3PB BULK
		3.5mm, Stereo Phone plug with extended shaft for mobile phones fitted with covers. Diecast Shell, Black Chrome finish, Flexible grommet	Standard	KS3PC
			Gold Plated Contacts	KS3PC-AU

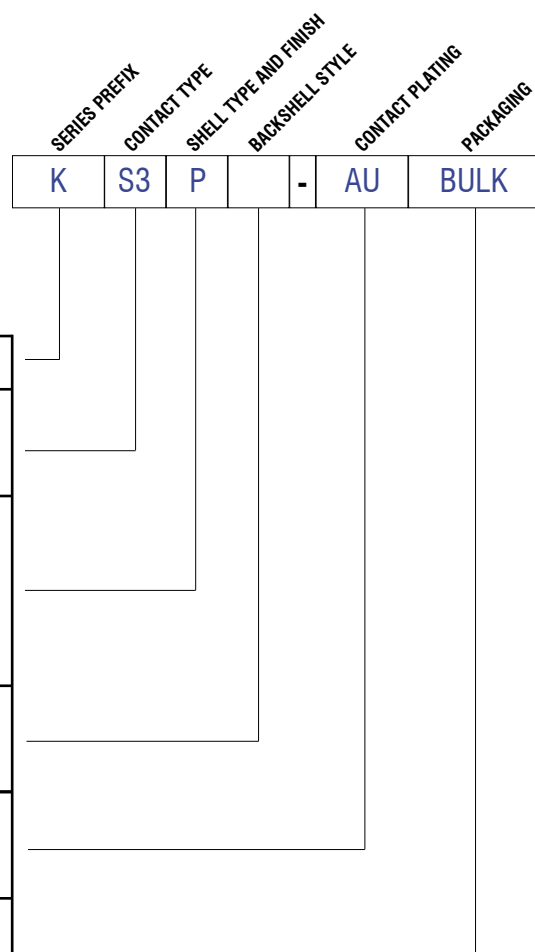


# PART NUMBER BREAKDOWN

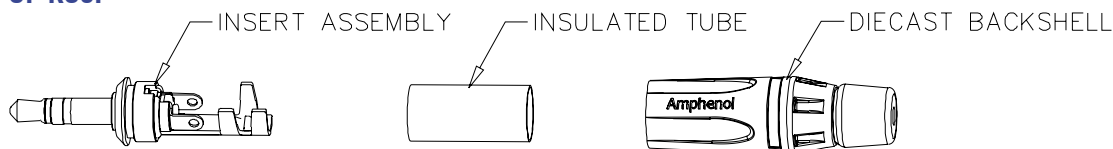
## K-SERIES

E. G. **KS3P-AU BULK**  
K (Series Prefix), S3(Stereo), Plug,  
- AU (Gold Plated Contacts), Bulk Packaged.

<b>SERIES PREFIX</b>	K	=	Series Prefix
<b>CONTACT TYPE</b>	M2	=	2 Pole (mono)
	S3	=	3 pole TRS (Stereo)
<b>SHELL TYPE AND FINISH</b>	P	=	Plug Satin Nickel
	PB	=	Plug Matt Black
	PC	=	Plug Black Chrome
<b>BACKSHELL TYPE AND CABLE CLAMP</b>	Blank	=	K Series to suit Cable O.D 2.5mm to 5mm (0.098" to 0.196")
<b>CONTACT PLATING</b>	Blank	=	Nickel Plated Contacts (Standard)
	AU	=	Gold Plated Contacts
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed



### ISO VIEW OF KS3P



## Plugs & Jacks

### K-Series Plugs (3.5mm) Plugs

## 3.5mm PLUG TECHNICAL DATA

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder
	Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16 - 1.5mm <sup>2</sup> 3 Pole (Stereo): AWG 18 - 1mm <sup>2</sup>
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	> 0.5mA (Depends on Mating Connector and Cable)
	Typical Contact Resistance	≤ 20mΩ (Depends on Mating Connector and Cable)
	Insulation resistance (initial) After Damp Heat Test	> 200M Ω > 100M Ω
	Test Voltage AC RMS: Dielectric Strength	250VAC
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-20°C to +65°C (-4°F to +149°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	< 20N / > 3N (depends on mating connector)
	Cable O.D.	3mm to 5mm (0.118" to 0.196")
	Mechanical Operations	1000 mating cycles
	Weight	8g (0.017lb)
<b>MATERIALS</b>	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3
	Connector Shell Finish	Satin Nickel or Black Polyester
	Insulators	PA66
	Cable Bushing	Santoprene
	Contacts	Brass
	Plating	Nickel or Gold Flash

<sup>1</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

# Plugs & Jacks






## RCA Series



### Features:

- Stylish design
- Flexible grommet cable protection
- Robust diecast shell
- Gold plated contacts
- Colour coded
- Good solderability
- Quick and easy assembly
- Panel mount utilises standard 'D' type housing

**Part Number Breakdown: Page 122**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		RCA Plug, Diecast Shell, Gold plated contacts, Coloured finish, Flexible coloured grommet	Red Black Yellow White Blue Green	ACPR-RED ACPR-BLK ACPR-YEL ACPR-WHT ACPR-BLU ACPR-GRN
		RCA Plug, Diecast Shell, Gold plated contacts, Satin finish, Flexible coloured grommet	Satin / Red Satin / Black Satin / Yellow Satin / White Satin / Blue Satin / Green	ACPR-SRD ACPR-SBK ACPR-SYL ACPR-SWH ACPR-SBL ACPR-SGR
		RCA Jack, Diecast Shell, Gold plated contacts, Coloured finish, Flexible coloured grommet	Red Black Yellow White Blue Green	ACJR-RED ACJR-BLK ACJR-YEL ACJR-WHT ACJR-BLU ACJR-GRN
		RCA Jack, Diecast Shell, Gold plated contacts, Satin finish, Flexible coloured grommet	Satin / Red Satin / Black Satin / Yellow Satin / White Satin / Blue Satin / Green	ACJR-SRD ACJR-SBK ACJR-SYL ACJR-SWH ACJR-SBL ACJR-SGR
		RCA Plug, Shortened Diecast Shell, Gold plated contacts, Black Chrome finish, Flexible coloured grommet	Red Black Yellow White Blue Green	ACPL-CRD ACPL-CBK ACPL-CYL ACPL-CWH ACPL-CBL ACPL-CGR

NOTE: RCA Series comply with EU RoHS 2 Directive 2011/65/EU

## RCA Series

NOTE: RCA Series comply with EU RoHS 2 Directive 2011/65/EU

## M SERIES RCA

SERIES PREFIX	CONTACT TYPE	SHELL TYPE	SHELL FINISH	PACKAGING
AC	P	R	-	RED
				BULK

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT TYPE</b>	J	=	RCA Female Jack
	P	=	RCA Male Plug
<b>SHELL TYPE</b>	R	=	Regular Shell Length
	L	=	Short Shell Length
	D	=	Chassis Jack 'D' Shell
<b>SHELL AND GROMMET COLOUR</b>	RED	=	Red, Red Grommet
	BLK	=	Black, Black Grommet
	YEL	=	Yellow, Yellow Grommet
	WHT	=	White, White Grommet
	BLU	=	Blue, Blue Grommet
	GRN	=	Green, Green Grommet
	SRD	=	Satin Nickel, Red Grommet
	CRD	=	Black Chrome, Red Grommet
	SBK	=	Satin Nickel, Black Grommet
	CBK	=	Black Chrome, Black Grommet
	SYL	=	Satin Nickel, Yellow Grommet
	CYL	=	Black Chrome, Yellow Grommet
	SWH	=	Satin Nickel, White Grommet
	CWH	=	Black Chrome, White Grommet
	SBL	=	Satin Nickel, Blue Grommet
	CBL	=	Black Chrome, Blue Grommet
	SGR	=	Satin Nickel, Green Grommet
	CGR	=	Black Chrome, Green Grommet
	NOTE: Denotes colour of insulator only on shell type D, Chassis Jack 'D' Shell. Shell finish is Nickel.		
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed

# RCA TECHNICAL DATA

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	2
	Termination	Solder
	Max. Wire Gauge - Stranded Wire	AWG 14 - 2.5mm <sup>2</sup>
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	10A (Depends on Mating Connector)
	Typical Contact Resistance	≤10mΩ (Depends on Mating Connector)
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥ 10 <sup>3</sup> Meg Ω
	Dielectric Strength	1500 V dc
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-25°C to +75°C (-13°F to +167°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	≥10N - ≤30N (depends on mating connector)
	Cable O.D.	3mm to 7mm (0.118" to 0.275")
	Mechanical Operations	500 mating cycles
	Weight - Cable Mount - Panel Mount	18g (0.039lb) 30g (0.066lb)
<b>MATERIALS</b>	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3
	Connector Shell Finish	Satin Nickel or Coloured Polyester
	Insulators	PA66
	Cable Bushing	Thermoplastic Polyurethane
	Contacts	Brass Alloy
	Plating	Gold Flash

Rev 4 - 05/2014

<sup>1)</sup>Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



# MULTIPIN CONNECTORS

Amphenol has an extensive range of circular and rectangular multi-pin connectors ideally suited to the entertainment industry. Featuring rugged housings and precision made contacts these connectors have proven themselves in the most demanding of applications. The extensive arrangement of different connector sizes and contact numbers ensure we can offer a solution to your multi-pin wiring applications.

### Applications

- Audio Cables and Snakes
- Lighting control
- Concert Touring Systems
- Outside Broadcast Systems

### Features / Options - MP-41 Series

- 13 to 85 pins with Crimp / Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channel
- Gold plated contacts
- Synthetic inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland
- 2000 mating cycles
- Bayonet wear pins
- Extended coupling ring
- Metal Housings

### Features / Options - MP-62 Series

- 39 or 61 Solder bucket contacts
- Gold plated contacts
- Neoprene inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland or NPT thread
- Metal Housings

### Ordering Codes

We have listed the more common ordering codes in each section. For further options please contact us.

### 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 pins column to determine number of contacts.
- 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.



## MP-41 Series

Amphenol's MP-41 series of multipin connectors utilise the same design principals of the rugged Mil-C-5015 military connectors. They can withstand high shock and vibration environments and are ideal for tough on-road applications. Featuring a quick mating bayonet coupling with an audible full mating feature ensures a positive connection every time. Available from 13 to 150 pins with contacts supplied with each connector as standard.

### Features:


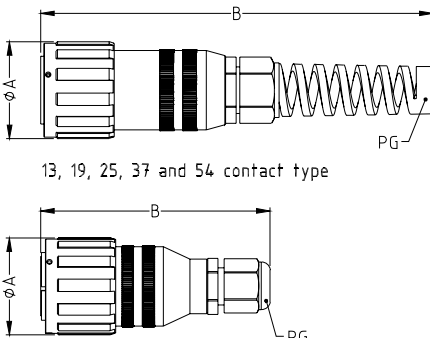
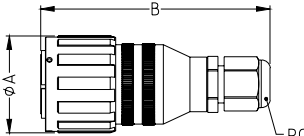

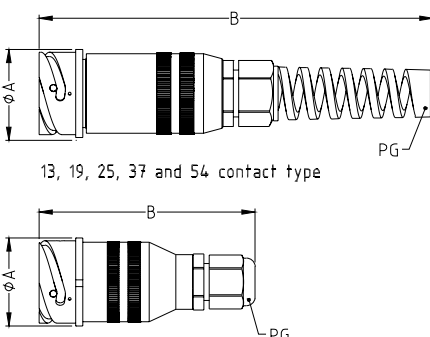
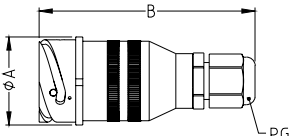
- 13 to 85 pins with Crimp/Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channels
- Gold plated contacts
- Synthetic insert
- Protective dust caps
- Industry standard compatible
- 2000 mating cycles
- Black finish
- Positive bayonet locking
- PG cable glands
- IP67 rated
- Metal housings

**Options:** NPT threaded backshells.

**Crimp Tooling:** Page 128

**Specifications:** Page 129 **Part Number Breakdown:** Page 128

**Wiring Information:** Page 141


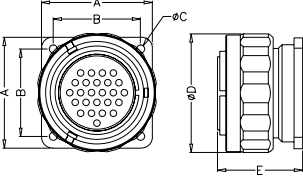

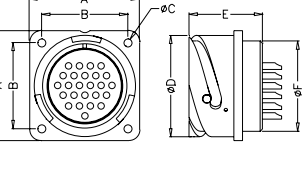

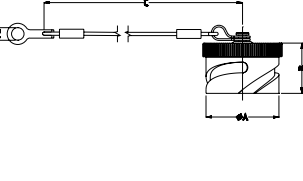

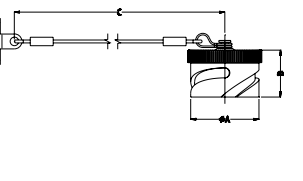
PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches)			PINS	PART NUMBER	PART NUMBER With Dustcap
		A	B	PG			
	Straight cable plug with socket contacts, Black finish, supplied complete with contacts.   13, 19, 25, 37 and 54 contact type   85 and 150 contact type	40.5 (1.60)	160 (6.30)	11	13	MP-4106-13S	MP-4106-13S-C
		44 (1.73)	171 (6.73)	13.5	19	MP-4106-19S	MP-4106-19S-C
		46.6 (1.83)	193 (7.60)	16	25	MP-4106-25S	MP-4106-25S-C
		54.3 (2.14)	210 (8.26)	21	37	MP-4106-37S	MP-4106-37S-C
		60.1 (2.36)	210 (8.26)	21	54	MP-4106-54S	MP-4106-54S-C
		73.3 (2.88)	137 (5.40)	29	85	MP-4106-85S	MP-4106-85S-C
		73.3 (2.88)	145 (5.70)	36	150	MP-4106-150S	MP-4106-150S-C
	Cable connecting receptacle with pin contacts, black finish, supplied complete with contacts.   13, 19, 25, 37 and 54 contact type   85 and 150 contact type	37.8 (1.49)	160 (6.30)	11	13	MP-4101-13P	MP-4101-13P-C
		41.1 (1.62)	171 (6.73)	13.5	19	MP-4101-19P	MP-4101-19P-C
		41.5 (1.63)	193 (7.60)	16	25	MP-4101-25P	MP-4101-25P-C
		51 (2.00)	210 (8.26)	21	37	MP-4101-37P	MP-4101-37P-C
		57.1 (2.25)	210 (8.26)	21	54	MP-4101-54P	MP-4101-54P-C
		70 (2.75)	137 (5.40)	29	85	MP-4101-85P	MP-4101-85P-C
		70 (2.75)	145 (5.70)	36	150	MP-4101-150P	MP-4101-150P-C


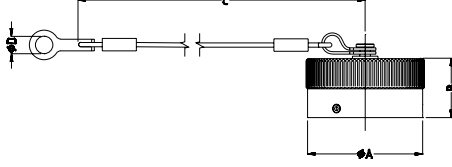

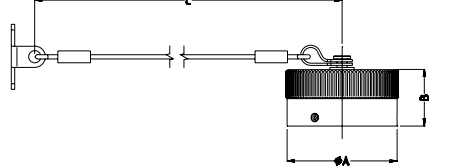
Note: NPT threaded backshells available on request. Please contact us.



# Multipin Connectors

## MP-41 Series

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches)						PINS	PART NUMBER	PART NUMBER With Dustcap
		A	B	C	D	E	F			
	<p>Panel plug with socket contacts, black finish, supplied complete with contacts.</p> 	38 (1.49)	29.4 (1.15)	3.2 (0.13)	40.5 (1.60)	38.8 (1.53)	N/A	13	MP-4164-13S	MP-4164-13S-C
		41 (1.61)	31.8 (1.25)	3.2 (0.13)	44 (1.73)	38.8 (1.53)	N/A	19	MP-4164-19S	MP-4164-19S-C
		44.5 (1.75)	34.9 (1.37)	3.73 (0.14)	48.51 (1.91)	40.6 (1.60)	N/A	25	MP-4164-25S	MP-4164-25S-C
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	54.3 (2.14)	42 (1.65)	N/A	37	MP-4164-37S	MP-4164-37S-C
		57 (2.24)	44.5 (1.75)	4.39 (0.17)	60.8 (2.40)	45 (1.77)	N/A	54	MP-4164-54S	MP-4164-54S-C
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.3 (2.88)	45 (1.77)	N/A	85	MP-4164-85S	MP-4164-85S-C
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.3 (2.88)	45 (1.77)	N/A	150	MP-4164-150S	MP-4164-150S-C
	<p>Panel receptacle with pin contacts, black finish, supplied complete with contacts.</p> 	38 (1.49)	29.4 (1.15)	3.23 (0.13)	34.2 (1.34)	34.5 (1.35)	29 (1.14)	13	MP-4102-13P	MP-4102-13P-C
		41 (1.61)	31.8 (1.25)	3.23 (0.13)	37.4 (1.47)	34.5 (1.35)	32.2 (1.26)	19	MP-4102-19P	MP-4102-19P-C
		44.5 (1.75)	34.9 (1.37)	3.73 (0.14)	40.9 (1.61)	35.7 (1.40)	35.3 (1.38)	25	MP-4102-25P	MP-4102-25P-C
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	46.7 (1.83)	36.5 (1.44)	41.4 (1.62)	37	MP-4102-37P	MP-4102-37P-C
		57 (2.24)	44.5 (1.75)	4.30 (0.17)	53.4 (2.10)	38.5 (1.52)	47.8 (1.88)	54	MP-4102-54P	MP-4102-54P-C
		69.8 (2.74)	55.5 (2.18)	4.30 (0.17)	65.5 (2.57)	38.5 (1.52)	59 (2.32)	85	MP-4102-85P	MP-4102-85P-C
		69.8 (2.74)	55.5 (2.18)	4.30 (0.17)	65.5 (2.57)	38.5 (1.52)	59 (2.32)	150	MP-4102-150P	MP-4102-150P-C
	<p>Plug protective dustcap to suit MP-4164 type.</p> 	34.16 (1.35)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	13	MP-25042-13S	-
		37.36 (1.47)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	19	MP-25042-19S	-
		40.87 (1.61)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	25	MP-25042-25S	-
		46.68 (1.84)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	37	MP-25042-37S	-
		53.36 (2.10)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	54	MP-25042-54S	-
		65.48 (2.58)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	85	MP-25042-85S	-
		65.48 (2.58)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	150	MP-25042-150S	-
	<p>Receptacle protective dustcap to suit MP-4106 types.</p> 	38.8 (1.53)	20.7 (0.81)	255 (8.07)	-	-	-	13	MP-25042-13L	-
		41.6 (1.64)	20.7 (0.81)	255 (8.07)	-	-	-	19	MP-25042-19L	-
		45.3 (1.78)	20.7 (0.81)	255 (8.07)	-	-	-	25	MP-25042-25L	-
		52.15 (2.05)	20.7 (0.81)	255 (8.07)	-	-	-	37	MP-25042-37L	-
		58.6 (2.30)	20.7 (0.81)	255 (8.07)	-	-	-	54	MP-25042-54L	-
		70.7 (2.78)	20.7 (0.81)	255 (8.07)	-	-	-	85	MP-25042-85L	-
		70.7 (2.78)	20.7 (0.81)	255 (8.07)	-	-	-	150	MP-25042-150L	-

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches)						PINS	PART NUMBER
		A	B	C	D	E	F		
	Plug protective dustcap to suit MP-4102 types. 	34.16 (1.35)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	13	MP-25043-13S
		37.36 (1.47)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	19	MP-25043-19S
		40.87 (1.61)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	25	MP-25043-25S
		46.68 (1.84)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	37	MP-25043-37S
		53.36 (2.10)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	54	MP-25043-54S
		65.48 (2.58)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	85	MP-25043-85S
		65.48 (2.58)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	150	MP-25043-150S
	Receptacle protective dustcap to suit MP-4101 types. 	38.8 (1.53)	20.7 (0.81)	255 (8.07)	-	-	-	13	MP-25043-13L
		41.6 (1.64)	20.7 (0.81)	255 (8.07)	-	-	-	19	MP-25043-19L
		45.3 (1.78)	20.7 (0.81)	255 (8.07)	-	-	-	25	MP-25043-25L
		52.15 (2.05)	20.7 (0.81)	255 (8.07)	-	-	-	37	MP-25043-37L
		58.6 (2.30)	20.7 (0.81)	255 (8.07)	-	-	-	54	MP-25043-54L
		70.7 (2.78)	20.7 (0.81)	255 (8.07)	-	-	-	85	MP-25043-85L
		70.7 (2.78)	20.7 (0.81)	255 (8.07)	-	-	-	150	MP-25043-150L

# Multipin Connectors

## MP-41 Series

PRODUCT - FIGURE	DRAWING	DESCRIPTION	NO. OF PINS	PART NUMBER
	N/A	Crimp Tool	All	M22520/1-01
	N/A	Positioner / Turret	All	TH29-1
	N/A	Insertion tool	13-85	MP-INS-16
			150	MP-INS-18
	N/A	Extraction tool	All	MP-EXT-16/18
	N/A	Contact Pilot Pin	13-85	MP-GUIDE-16
			150	MP-GUIDE-18
	N/A	Solder/Crimp Pin Contact	13-85 (Size 16)	MP-108400
		Crimp Pin Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108300
	N/A	Solder/Crimp Socket Contact	13-85 (Size 16)	MP-108600
		Crimp Socket Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108500

**NOTE:** Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary contacts in MP-41 Series connectors are available in publication PI523 located on our website [www.amphenolaudio.com](http://www.amphenolaudio.com).

## PART NUMBER BREAKDOWN MP-41 SERIES

### MULTIPIN CIRCULAR CONNECTORS

E. G. **MP-4106-85S**  
 Multipin, **4106** Cable Plug, **85** Contacts, **S** Female Socket Contacts,

SERIES PREFIX	MP	=	Series Prefix
HOUSING TYPE	4101	=	Inline cable connecting receptacle
	4102	=	Panel receptacle
	4106	=	Cable plug
	4164	=	Panel plug
	25042S	=	Dustcap for panel plug
	25042L	=	Dustcap for cable plug
	25043S	=	Dustcap for panel receptacle
	25043L	=	Dustcap for cable receptacle
NO. OF CONTACTS	13, 19, 25, 37, 54, 85, 150		
GENDER	P	=	Male pin contacts
*Not required for dustcap part numbers	S	=	Female socket contacts
OPTIONS	C	=	Supplied with Dustcap

# 9-41 SERIES

SERIES PREFIX	HOUSING TYPE	NUMBER OF CONTACTS	*GENDER	OPTIONS		
MP	-	4106	-	85	S	C

# STANDARD DATA MP-41 SERIES

		VALUE						
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	13	19	25	37	54	85	150
	Number of channels	4	6	8	12	16	28	48
	Termination	Solder / Crimp "Combo"						Crimp
	Wire Gauge - Stranded Wire	16AWG - 20AWG						18AWG
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU						
<b>ELECTRICAL CHARACTERISTICS</b>	Operating Voltage at Sea level - DC	250V*						250V*
	Operating Voltage at Sea level - AC	200V*						200V*
	Test Voltage AC RMS	1000V						1000V
	Current Carrying Capacity	13A						7.5A
	Typical Contact Resistance	3.46mΩ						11.25mΩ
	Insulation Resistance	5000MΩ						
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP67 (when mated)						
	Operating Temperature	-55°C to +125°C (-67°F to +257°F)						
<b>MECHANICAL CHARACTERISTICS</b>	Cable Retention	PG Gland						
	Mechanical Operations	2000 mating cycles						
<b>MATERIALS</b>	Connector / Shell Finish	Aluminium Alloy / Black						
	Insert	Synthetic Insert to MIL-R-3065						
	Male pin contact / Plating	Brass / Gold plated						
	Female socket contact / Plating	Brass / Gold plated						
<b>CLAMPING CHARACTERISTICS</b>	PG Gland	11	13.5	16	21	29	36	
	Cable Clamping range mm (inches)	4-10 (0.15"-0.39")	5-12 (0.19"-0.47")	9-14 (0.35"-0.55")	13-18 (0.51"-0.70")	14-25 (0.55"-0.98")	19-32 (0.74"-1.25")	

\*Not suitable for domestic applications above 50V

Rev 2 - 03/2013

Multipin Connectors

MP-62 / MP-65 Series



MP-62 / MP-65 Series

Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles as the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61 with gold plated solder contacts fitted as standard.

Features:


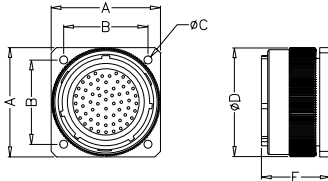

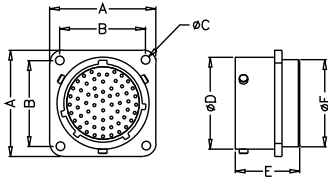
- 39 or 61 pins.
  - Gold plated solder contacts.
  - Neoprene insert.
  - Protective dust caps
  - Metal housings
- Environmental resistant.
  - Black finish.
  - Positive bayonet locking
  - PG cable glands


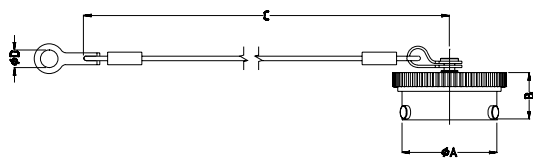

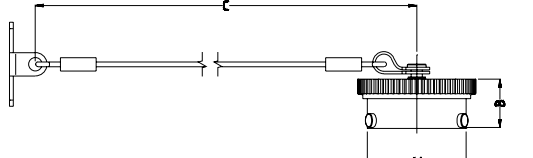

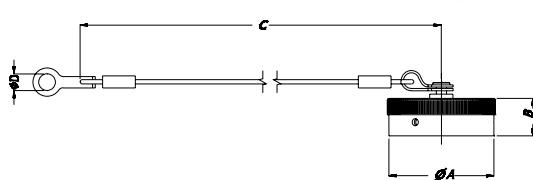

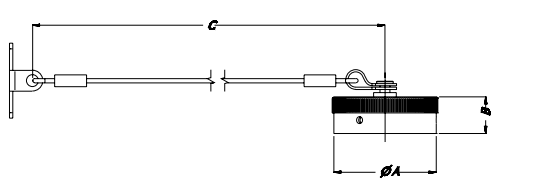
Specifications: [Page 132](#)    Wiring Info: [Page 141](#)

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches)			PINS	PART NUMBER	PART NUMBER With Dustcap
		A	B	PG			
	<p>Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.</p>	38.9 (1.53)	181.5 (7.15)	16	39	MP-6216-39P	MP-6216-39P-C
		45.5 (1.80)	193 (7.60)	21	61	MP-6216-61P	MP-6216-61P-C
	<p>Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.</p>	36.7 (1.45)	181.5 (7.15)	16	39	MP-6211-39S	MP-6211-39S-C
		43.0 (1.70)	193 (7.60)	21	61	MP-6211-61S	MP-6211-61S-C
	<p>Straight cable plug with pin contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts.</p>	38.9 (1.53)	90 (3.54)	NPT 3/4"	39	MP-6516-39P	MP-6516-39P-C
		45.5 (1.80)	100 (3.94)	NPT 3/4"	61	MP-6516-61P	MP-6516-61P-C
	<p>Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts.</p>	36.7 (1.45)	90 (3.54)	NPT 3/4"	39	MP-6511-39S	MP-6511-39S-C
		43.0 (1.70)	100 (3.94)	NPT 3/4"	61	MP-6511-61S	MP-6511-61S-C

# Multipin Connectors

MP-62 / MP-65 Series

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	Dimensions in mm (inches)						PINS	PART NUMBER	PART NUMBER With Dustcap
		A	B	C	D	E	F			
		38.86 (1.53)	29.36 (1.16)	6-32 UNC	39.0 (1.54)	32 (1.26)	-	39	MP-6256-39P	MP-6256-39P-C
		43.94 (1.73)	34.93 (1.38)	6-32 UNC	45.5 (1.80)	35 (1.38)	-	61	MP-6256-61P	MP-6256-61P-C
		36.7 (1.44)	29.36 (1.15)	3.05 (0.12)	31.8 (1.25)	22.3 (0.87)	30.1 (1.18)	39	MP-6212-39S	MP-6212-39S-C
		43.0 (1.69)	34.93 (1.38)	3.74 (0.15)	38.1 (1.50)	22.3 (0.87)	36.4 (1.43)	61	MP-6212-61S	MP-6212-61S-C

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches)				PINS	PART NUMBER
			A D	B	C			
		Plug protective dustcap to suit MP-6256	31.7 (1.25)	15.9 (0.62)	127 (4.99)	4.40 (0.17)	39	MP-742-39S
			38.05 (1.50)	16.70 (0.66)	127 (4.99)	4.40 (0.17)	61	MP-742-61S
		Receptacle protective dustcap to suit MP-6216	36.9 (1.45)	13.13 (0.52)	127 (4.99)	-	39	MP-742-39L
			43.14 (1.70)	14.15 (0.56)	127 (4.99)	-	61	MP-742-61L
		Plug protective dustcap to suit MP-6212	31.7 (1.25)	15.9 (0.62)	127 (4.99)	4.40 (0.17)	39	MP-738-39S
			38.05 (1.50)	16.70 (0.66)	127 (4.99)	4.40 (0.17)	61	MP-738-61S
		Receptacle protective dustcap to suit MP-6211	36.9 (1.45)	13.13 (0.52)	127 (4.99)	-	39	MP-738-39L
			43.14 (1.70)	14.15 (0.56)	127 (4.99)	-	61	MP-738-61L

# Multipin Connectors

MP-62 / MP-65 Series

## STANDARD DATA MP-62 SERIES / MP - 65 SERIES

		VALUE	
GENERAL CHARACTERISTICS	Number of contacts	39	61
	Number of channels	12	20
	Termination	Solder	
	Wire Gauge - Stranded Wire	37 x 24AWG-20AWG 2 x 20AWG-16AWG	24AWG-20AWG
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Operating Voltage at Sea level - DC	600V*	
	Operating Voltage at Sea level - AC	600V*	
	Test Voltage AC RMS	1500V	
	Current Carrying Capacity	37 x 7.5A 2 x 13A	7.5A
	Insulation Resistance	5000MΩ	
CLIMATIC CHARACTERISTICS	Protection Class	IP67 (when mated)	
	Operating Temperature	-55°C to +125°C (-67°F to +257°F)	
MECHANICAL CHARACTERISTICS	Cable Retention	PG Gland / NPT Thread	
	Mechanical Operations	500 mating cycles (minimum)	
MATERIALS	Connector / Shell Finish	Aluminium Alloy / Black	
	Insert	Neoprene	
	Male pin contact machined - Plating	Brass / Gold plated	
	Female socket contact machined - Plating	Brass / Gold plated	
CLAMPING CHARACTERISTICS	PG Gland	16	21
	Cable Clamping range mm (inches)	9-14 (0.35"-0.55")	13-18 (0.51"-0.70")

\*Not suitable for domestic applications above 50V

Rev 3 - 03/2013



### AMPHENOL-TUCHEL C146 HEAVY | MATE CONNECTORS

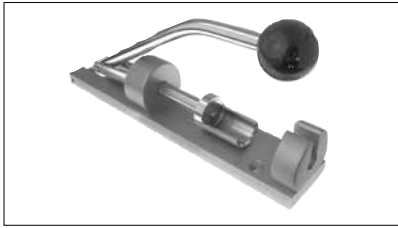
Amphenol Tuchel C146 series rectangular connectors feature modular components ensuring a vast range of different features and benefits for the end user. The zinc diecast aluminum housings are finished in a durable powder coat and available in either top or side entry. Connector coupling is achieved via a positive locking lever ensuring a positive rapid connection. The C146 series is suitable for general-purpose audio and lighting applications and is completely intermateable with all competitor connectors.



### FIBRE OPTIC








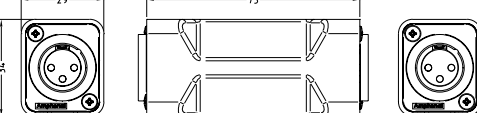

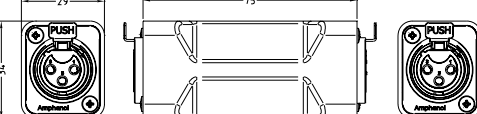
Amphenol has over 25 years experience in fibre optics dating back to their development of the first industry standard connector, the SMA. Today we can offer a complete range of products including Hybrid Fibre optic connectors for HDTV broadcast cameras SMPTE 304M compliant and ruggedised connectors and cable assemblies for indoor or outdoor applications.




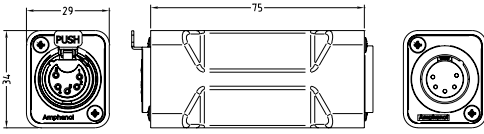

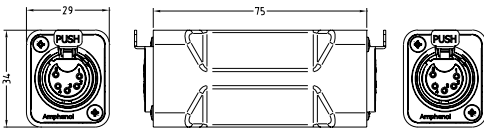

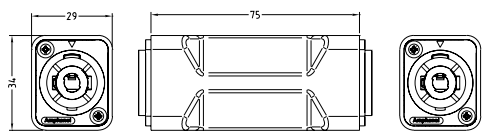

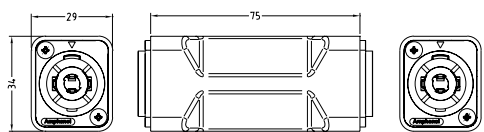

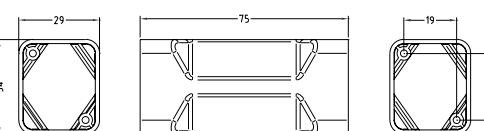

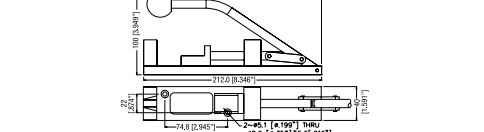

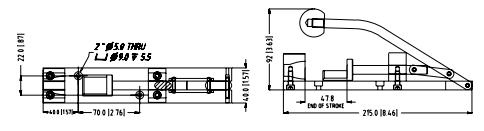

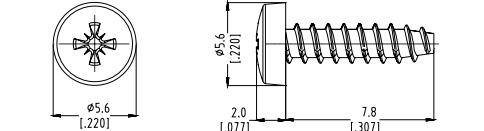

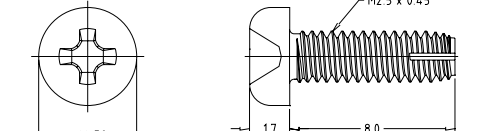



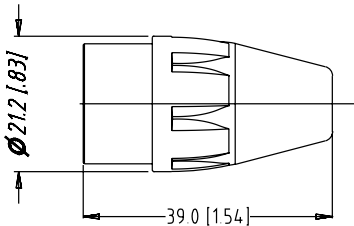

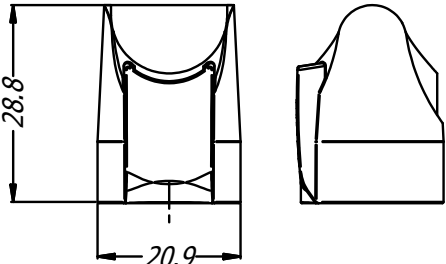

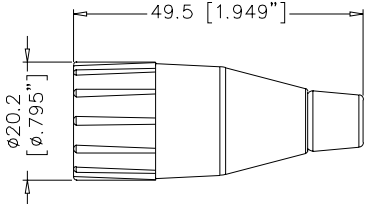

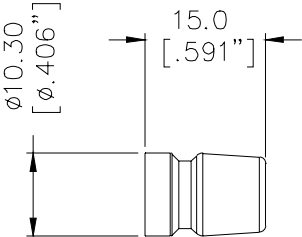
## Accessories

- Colour coded boots(backshells) and rings to assist in cable identification.
- In-line adaptors. Pre-wired for convenience.
- Termination tool for fast assembly of cable connectors.
- Mounting hardware.
- Metal boots(backshells) for rugged environments.

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3M3MW
			Black Finish	AC3M3MBW
		XLR 3 pole female to 3 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3FW
			Black Finish	AC3F3FBW
		XLR 3 pole female to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3MW
			Black Finish	AC3F3MBW
		XLR 3 pole female to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F5MW
		XLR 3 pole male to 5 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3M5FW
		XLR 5 pole male to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC5M5MW
		XLR D shell adapter, 3 pole male to 3 pole male, Pre-wired	Not Applicable	AC3M3MDW
		XLR D shell adapter, 3 pole female to 3 pole female, Pre-wired	Not Applicable	AC3F3FDW

## Accessories


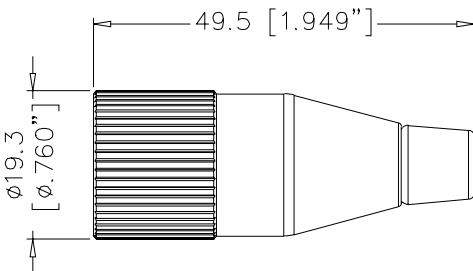

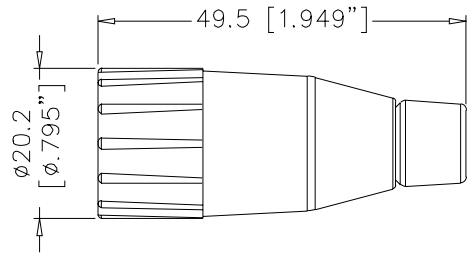

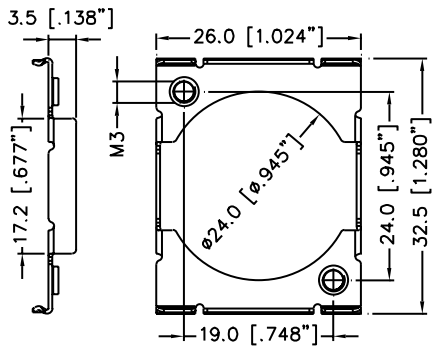

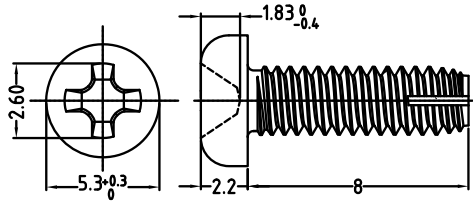
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR D shell adapter, 5 pole male to 5 pole male, Pre-wired	Not Applicable	AC5M5MDW
			XLR D shell adapter, 5 pole female to 5 pole female, Pre-wired	Not Applicable	AC5F5FDW
			SP D shell adapter, SP-2 to SP-2, Pre-wired	Not Applicable	SP2F2FDW
			SP D shell adapter, SP-4 to SP-4, Pre-wired	Not Applicable	SP4F4FDW
			D shell adapter without connectors	Not Applicable	AC-D-ADAPTER
			Termination Tool	For AC Series Cable Connectors	T2860
			Termination Tool	For AX Series cable connectors	T2890
			A Type / C Type Connector Mounting, Self-Tapping Screw	2.9 x 1.06 Tri-rondar	52500014-734
			B Type / XLRnet Connector Mounting, Self-Tapping Screw	M2.5	52500005-732

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		AX Series Coloured Boot	Brown Red Orange Yellow Green Blue Violet Grey White Black	AX-BOOT-1 AX-BOOT-2 AX-BOOT-3 AX-BOOT-4 AX-BOOT-5 AX-BOOT-6 AX-BOOT-7 AX-BOOT-8 AX-BOOT-9 AX-BOOT
		AX Series Sleeve for Custom Print Note: Custom printed numbers available (Please contact us)	Black Brown Red Orange Yellow Green Blue Violet Grey White	AX-MARK0 AX-MARK1 AX-MARK2 AX-MARK3 AX-MARK4 AX-MARK5 AX-MARK6 AX-MARK7 AX-MARK8 AX-MARK9
		AC Coloured Boot / Backshell Note: Number Identification optional. (Please contact us.)	Brown Red Orange Yellow Green Blue Violet Grey White	AC-NUT-BRN AC-NUT-RED AC-NUT-ORG AC-NUT-YEL AC-NUT-GRN AC-NUT-BLU AC-NUT-VIO AC-NUT-GRY AC-NUT-WHT
		Coloured Grommets to suit AC Series, T Series and Musician range	Brown Red Orange Yellow Green Blue Violet Grey White	AC-GROMMET-BRN AC-GROMMET-RED AC-GROMMET-ORG AC-GROMMET-YEL AC-GROMMET-GRN AC-GROMMET-GRN AC-GROMMET-VIO AC-GROMMET-GRY AC-GROMMET-WHT

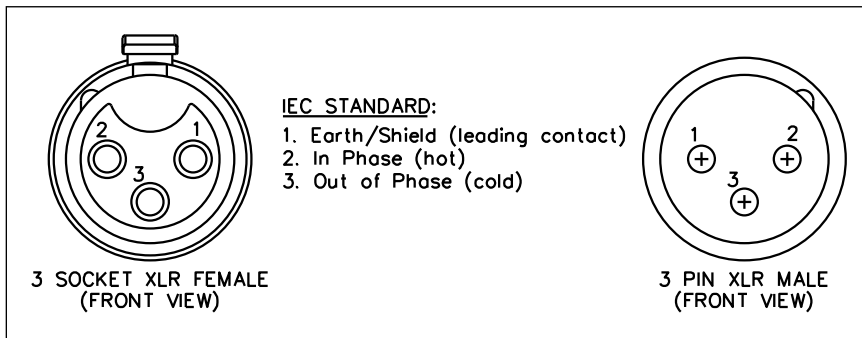
NOTE: All accessories comply with EU RoHS 2 Directive 2011/65/EU

NOTE: Please do not refer to this printed catalogue as a colour reference. For exact colours contact your sales representative.

## Accessories

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		AC Metal Boot / Backshell, Black Finish	Not Applicable	<a href="#">AC-NUT-METAL</a>
		AC Thermoplastic Boot / Backshell. Suitable for use with 8.5mm (0.33\" O.D. cable.	Not Applicable	<a href="#">AC-NUT-J-BLK</a>
		M3 threaded metal plate to suit D-type chassis connectors	Nickel Finish	<a href="#">52590060-300</a>
		M3 x 0.5mm thread Dual rear panel clip	Nickel Finish	<a href="#">52590074-300</a>
		M3 Screw to suit 52590060-300 M3 x 0.5	Nickel Finish	<a href="#">52500016-300</a>
			Matt Black	<a href="#">52500016-400</a>

## XLR (Microphone / Patch Cables)

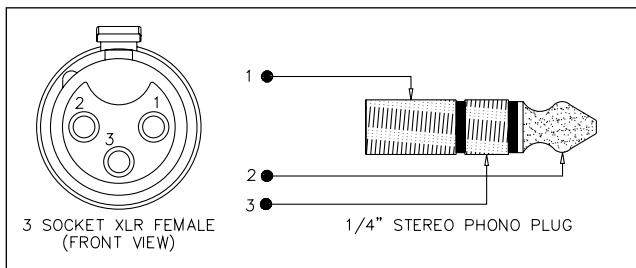


The standard XLR 3 contact pin outs are as shown above for a balanced lead. In such a configuration audio “Hot” (pin 2) is the in-phase connection whilst audio “Cold” (pin 3) is the out-of-phase connection. For an unbalanced lead however, you may connect pin 1 to either pin 2 or pin 3, but not both. In such a configuration the remaining pin is used for the audio signal.

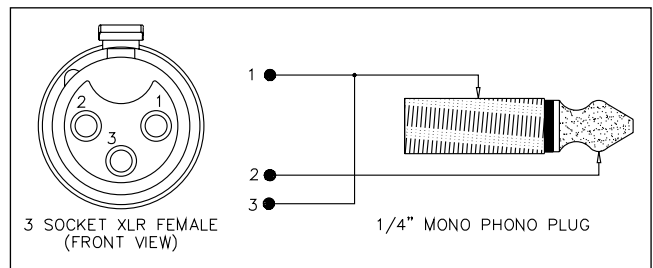
When terminating the cable shielding to pin 1 it is suggested that the shield be only grounded at one end of the cable to avoid inducing “hum”. Pin 1 is a leading contact that engages at interconnection, before pin 2 or pin 3.

## 1/4" Phono (6.35mm) (Standard Applications)

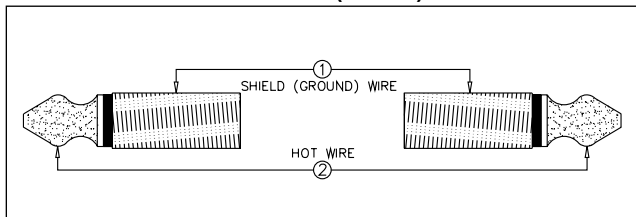
### MICROPHONE CABLE - BALANCED



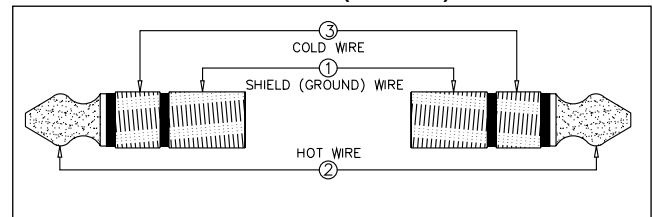
### MICROPHONE CABLE - UNBALANCED



### INSTRUMENT / LINE CABLE (MONO)



### INSTRUMENT / LINE CABLE (STEREO)

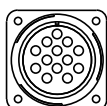


# Connector Wiring Information

## MP Series

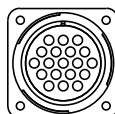
**MP-41 Series**  
4 Ch –13 pin

Ch	+	-	G
1	B	C	E
2	F	K	H
3	J	D	A
4	N	M	G
General	L		
Ground			



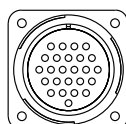
**MP-41 Series**  
6 Ch – 19 pin

Ch	+	-	G
1	L	M	U
2	A	N	B
3	K	J	T
4	V	P	C
5	H	S	G
6	R	D	E
General	F		
Ground			



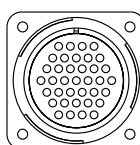
**MP-41 Series**  
8 Ch –25 pin

Ch	+	-	G
1	A	E	F
2	G	C	B
3	D	H	J
4	M	L	K
5	Q	P	N
6	W	S	R
7	T	X	Y
8	Z	V	U
General	a		
Ground			



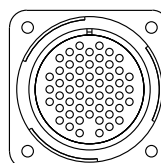
**MP-41 Series**  
12 Ch–37 pin

Ch	+	-	G
1	E	F	A
2	B	C	G
3	H	J	D
4	S	T	K
5	L	M	U
6	V	W	N
7	P	R	X
8	a	b	g
9	c	d	j
10	e	f	m
11	n	p	h
12	r	s	k
General	z		
Ground			



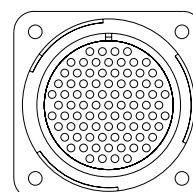
**MP-41 Series**  
16 Ch–54 pin

Ch	+	-	G
1	W	f	r
2	J	R	a
3	k	v	AC
4	E	M	V
5	e	q	y
6	B	H	P
7	Z	j	u
8	D	L	U
9	d	p	x
10	A	G	O
11	Y	h	t
12	C	K	T
13	c	n	w
14	F	N	X
15	g	s	AB
16	S	b	m
General	AG		
Ground			



**MP-41 Series**  
28 Ch–85 pin

Ch	+	-	G
1	A	B	C
2	E	F	H
3	J	K	L
4	N	P	R
5	S	T	U
6	X	Y	Z
7	a	b	c
8	d	f	g
9	h	i	j
10	k	m	n
11	p	q	r
12	t	u	v
13	w	x	y
14	z	AA	AB
15	AC	AD	AE
16	AF	AH	AJ
17	AK	AL	AM
18	AP	AR	AS
19	AT	AU	AV
20	AW	AX	AY
21	AZ	BA	BB
22	BC	BD	BE
23	BJ	BK	BL
24	BM	BN	BP
25	BS	BT	BU
26	BV	BR	BF
27	BH	AN	s
28	W	M	D
General	V		
Ground			

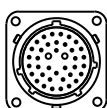


**MP-41 Series**  
48 Ch - 150 pin

Ch	+	-	G
1	1	2	3
2	5	6	7
3	8	9	10
4	11	12	13
5	14	15	16
6	17	18	19
7	21	22	23
8	24	25	26
9	27	28	29
10	30	31	32
11	33	34	35
12	36	37	38
13	39	40	41
14	42	43	44
15	45	46	47
16	48	49	50
17	51	52	53
18	54	55	56
19	58	59	60
20	61	62	63
21	64	65	66
22	67	68	69
23	70	71	72
24	73	74	75
25	76	77	78
26	79	80	81
27	83	84	85
28	86	87	88
29	89	90	91
30	92	93	94
31	95	96	97
32	98	99	100
33	101	102	103
34	104	105	106
35	81	82	83
36	108	109	110
37	111	112	113
38	114	115	116
39	117	118	119
40	120	121	122
41	123	124	125
42	126	127	128
43	129	130	131
44	132	133	134
45	135	136	137
46	138	139	140
47	141	142	143
48	144	145	146
General	150		
Ground			

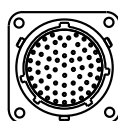
**MP-62 Series**  
12 Ch–39 pin

Ch	+	-	G
1	p	n	q
2	W	A	X
3	N	f	P
4	L	e	M
5	J	d	K
6	G	c	H
7	E	b	F
8	D	a	Z
9	C	B	Y
10	U	j	V
11	i	h	T
12	R	g	S
General	N/A		
Ground			



**MP-62 Series**  
20 Ch–61 pin

Ch	+	-	G
1	JJ	HH	NN
2	MM	KK	PP
3	BB	AA	CC
4	s	FF	W
5	r	EE	V
6	e	D	x
7	f	E	y
8	q	DD	U
9	S	p	T
10	P	N	R
11	m	k	n
12	L	K	M
13	J	i	j
14	H	G	h
15	g	F	z
16	d	C	w
17	B	A	c
18	b	a	Z
19	v	u	Y
20	t	GG	X
General	N/A		
Ground			



Symbols		AC3MBV2-AU-PRE	33	AC5MDZB-AU	22	ACJC6SL BULK	46	ACJR-SBL	121
		AC3MBV3-AU-PRE	33	AC5MDZ BULK	22	ACJC6V BULK	46	ACJR-SGR	121
52500005-732	134	AC3MBV-AU-PRE	32	AC5MJ	11	ACJC6VL BULK	46	ACJR-SRD	121
52500014-734	134	AC3MCP	14	AC5MP	24	ACJC9AH BULK	43	ACJR-SWH	121
52500016-300	136	AC3MCP BULK	14	AC5MPNZ	24	ACJC9AHL BULK	43	ACJR-SYL	121
52500016-400	136	AC3MDZ	21	AC6AF	12	ACJC9AV2 BULK	44	ACJR-WHT	121
52590060-300	136	AC3MDZB	21	AC6AFB	12	ACJC9AV2L BULK	44	ACJR-YEL	121
52590074-300	136	AC3MDZB-AU	21	AC6AFB-AU	12	ACJC9AVL BULK	44	ACJS-HHDR	108
		AC3MDZ BULK	21	AC6AFB BULK	12	ACJC9H BULK	46	ACJS-HHOP	109
A		AC3MJ	10	AC6AFBJ	12	ACJC9HL BULK	46	ACJS-HHOP-1	109
		AC3MM	10	AC6AF BULK	12	ACJC9S BULK	47	ACJS-IH	110
AC3F	10	AC3MMB	10	AC6AFDZ	23	ACJC9SL BULK	47	ACJS-IHS	110
AC3F3FBW	133	AC3MMB-AU	10	AC6AFDZB	23	ACJC9V BULK	47	ACJS-MC	110
AC3F3FDW	133	AC3MMB BULK	10	AC6AFDZB-AU	23	ACJC9VL BULK	47	ACJS - MH	110
AC3F3FW	133	AC3MM BULK	10	AC6AFDZ BULK	23	ACJC10AH BULK	44	ACJS-MHD	111
AC3F3MBW	133	AC3MMCP	14	AC6AFJ	12	ACJC10AHL BULK	44	ACJS-MHD985	108
AC3F5MW	133	AC3MMCP BULK	14	AC6AFPZ	24	ACJC10AV2 BULK	44	ACJS-MHDC*	110
AC3FAH1-AU-PRE	30	AC3MMDZ	21	AC6AM	12	ACJC10AV2L BULK	44	ACJS-MHDCM	110
AC3FAH2-AU-PRE	30	AC3MMDZB	21	AC6AMB	12	ACJC10AV BULK	44	ACJS-MHDE	111
AC3FAH-AU-PRE	30	AC3MMDZB-AU	21	AC6AMB-AU	12	ACJC10AVL BULK	44	ACJS-MHDEM	111
AC3FAHL1-AU-PRE	30	AC3MMDZ BULK	21	AC6AMB BULK	12	ACJC10H BULK	47	ACJS-MHDM	111
AC3FAHL2-AU-PRE	30	AC3MMP	24	AC6AMBJ	12	ACJC10HL BULK	47	ACJS-MHDR	109
AC3FAHL-AU-PRE	30	AC3MMPNZ	24	AC6AM BULK	12	ACJC10S BULK	48	ACJS-MHDM	109
AC3FAV1-AU-PRE	30	AC3MP	24	AC6AMDZ	23	ACJC10SL BULK	48	ACJS-MHOM	109
AC3FAV2-AU-PRE	31	AC3MPNZ	24	AC6AMDZB	23	ACJC10V BULK	47	ACJS-MHOP	109
AC3FAV-AU-PRE	30	AC4F	11	AC6AMDZB-AU	23	ACJC10VL BULK	47	ACJS-MHOP-1	109
AC3FAVL1-AU-PRE	31	AC4FB	11	AC6AMDZ BULK	23	ACJD-BLK	122	ACJS-MHR	110
AC3FAVL2-AU-PRE	31	AC4FB-AU	11	AC6AMJ	12	ACJD-BLU	122	ACJS-MHS	110
AC3FAVL-AU-PRE	31	AC4FB BULK	11	AC6AMP	24	ACJD-GRN	122	ACJS-MIV-3	111
AC3FB	10	AC4FBJ	11	AC6AMPNZ	24	ACJD-RED	122	ACJS-MIV-3S	111
AC3FB-AU	10	AC4F BULK	11	AC7F	12	ACJD-WHT	122	ACJS-MIV-5	111
AC3FB BULK	10	AC4FDZ	22	AC7FB	12	ACJD-YEL	122	ACJS-MN-3	111
AC3FBH1-AU-PRE	33	AC4FDZB	22	AC7FB BULK	12	ACJM-HHDR	108	ACJS-MN-3S	111
AC3FBH2-AU-PRE	33	AC4FDZB-AU	22	AC7FBJ	12	ACJM-HHOP	109	ACJS-MN-5	111
AC3FBH3-AU-PRE	33	AC4FDZ BULK	22	AC7F BULK	12	ACJM-HHOP-1	109	ACJS-MV-3	111
AC3FBH-AU-PRE	33	AC4FJ	11	AC7FDZ	23	ACJM-IH	110	ACJS-MV-3S	111
AC3FBHL1-AU-PRE	34	AC4FPZ	24	AC7FDZB	23	ACJM-IHS	110	ACJS-MV-5	111
AC3FBHL2-AU-PRE	34	AC4M	11	AC7FDZ BULK	23	ACJM-MC	110	ACJS-MV35-3	108
AC3FBHL3-AU-PRE	34	AC4MAH-AU-B	31	AC7FDZV	23	ACJM - MH	109	ACJS-MV35-3S	108
AC3FBHL-AU-PRE	33	AC4MB	11	AC7FDZVB	23	ACJM-MHD	111	ACJS-MV35-5	108
AC3FBJ	10	AC4MB-AU	11	AC7FJ	12	ACJM-MHD985	108	ACJS-MVD985-3	108
AC3F BULK	10	AC4MB BULK	11	AC7FPZ	24	ACJM-MHDC*	110	ACJS-MVD985-3S	108
AC3FBV1-AU-PRE	34	AC4MBJ	11	AC7M	12	ACJM-MHDCM	110	ACJS-MVD985-5	108
AC3FBV2-AU-PRE	34	AC4M BULK	11	AC7MB	12	ACJM-MHDE	111	ACJS-MVS-3	112
AC3FBV3-AU-PRE	34	AC4MDZ	22	AC7MB BULK	12	ACJM-MHDEM	111	ACJS-MVS-3S	112
AC3FBV-AU-PRE	34	AC4MDZB	22	AC7MBJ	12	ACJM-MHDM	111	ACJS-MVS-5	112
AC3FBVL1-AU-PRE	35	AC4MDZB-AU	22	AC7M BULK	12	ACJM-MHDR	109	ACJS-NH35	108
AC3FBVL2-AU-PRE	35	AC4MJ	11	AC7MDZ	23	ACJM-MHDM	109	ACJS-NV35-3	108
AC3FBVL3-AU-PRE	35	AC4MP	24	AC7MDZB	23	ACJM-MHOM	109	ACJS-NV35-3S	108
AC3FBVL-AU-PRE	34	AC4MPNZ	24	AC7MDZ BULK	23	ACJM-MHOP	109	ACJS-NV35-5	108
AC3FCP	14	AC5F	11	AC7MDZV	23	ACJM-MHOP-1	109	ACJS-PC	110
AC3FCP BULK	14	AC5F5FDW	134	AC7MDZVB	23	ACJM-MHR	110	ACJS - PH	110
AC3FDZ	21	AC5FAH-AU-B	31	AC7MJ	12	ACJM-MHS	110	ACJS-PHOP	109
AC3FDZB	21	AC5FAV-AU-B	31	AC7MP	24	ACJM-MIV-2	111	ACJS-PHOP-1	109
AC3FDZB-AU	21	AC5FB	11	AC7MPNZ	24	ACJM-MIV-2S	111	ACJS-PHR	110
AC3FDZ BULK	21	AC5FB-AU	11	AC-D-ADAPTER	134	ACJM-MN-2	111	ACJS-PHS	110
AC3FJ	10	AC5FB BULK	11	AC-GROMMET-BRN	135	ACJM-MN-2S	111	ACJS-PVB-3	111
AC3FPZ	24	AC5FBH-AU-PRE	35	AC-GROMMET-GRN	135	ACJM-MV-2	111	ACJS-PVB-3S	111
AC3M	10	AC5FBJ	11	AC-GROMMET-GRY	135	ACJM-MV-2S	111	ACJS-PVB-5	111
AC3M3MBW	133	AC5F BULK	11	AC-GROMMET-ORG	135	ACJM-MV35-2	108	AC-NUT-BLU	135
AC3M3MDW	133	AC5FBV-AU-PRE	35	AC-GROMMET-RED	135	ACJM-MV35-2S	108	AC-NUT-BRN	135
AC3M3MW	133	AC5FDZ	22	AC-GROMMET-VIO	135	ACJM-MVD985-2	108	AC-NUT-GRN	135
AC3M5FW	133	AC5FDZB	22	AC-GROMMET-WHT	135	ACJM-MVD985-2S	108	AC-NUT-GRY	135
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AC3MAH2-AU-PRE	29	AC5FJ	11	AC-HDMI-RRR	90	ACJM-NH35	108	AC-NUT-ORG	135
AC3MAH4-SW-B	29	AC5FPZ	24	ACJC5H BULK	45	ACJM-NV35-2	108	AC-NUT-RED	135
AC3MAH-AU-PRE	29	AC5M	11	ACJC5HL BULK	45	ACJM-NV35-2S	108	AC-NUT-VIO	135
AC3MAV2-AU-PRE	30	AC5M5MDW	134	ACJC5S BULK	45	ACJM-PC	110	AC-NUT-WHT	135
AC3MAV-AU-PRE	29	AC5M5MW	133	ACJC5SL BULK	45	ACJM - PH	109	AC-NUT-YEL	135
AC3MB	10	AC5MAH-AU-B	31	ACJC5V BULK	45	ACJM-PHOP	109	ACPL-CBK	121
AC3MB-AU	10	AC5MAV-AU-B	31	ACJC5VL BULK	45	ACJM-PHOP-1	109	ACPL-CBL	121
AC3MB BULK	10	AC5MB	11	ACJC6AH BULK	43	ACJM-PHR	110	ACPL-CGR	121
AC3MBH1-AU-PRE	32	AC5MB-AU	11	ACJC6AHL BULK	43	ACJM-PHS	110	ACPL-CRD	121
AC3MBH2-AU-PRE	32	AC5MB BULK	11	ACJC6AV2 BULK	43	ACJM-PVB-2	111	ACPL-CWH	121
AC3MBH3-AU-PRE	32	AC5MBH-AU-PRE	35	ACJC6AV2L BULK	43	ACJM-PVB-2S	111	ACPL-CYL	121
AC3MBH-AU-PRE	32	AC5MBJ	11	ACJC6AV BULK	43	ACJR-BLK	121	ACPM-GB	104
AC3MBHL-AU-PRE	32	AC5M BULK	11	ACJC6AVL BULK	43	ACJR-BLU	121	ACPM-GB-AU	104
AC3MBJ	10	AC5MBV-AU-PRE	35	ACJC6H BULK	46	ACJR-GRN	121	ACPM-GB BULK	104
AC3M BULK	10	AC5MDZ	22	ACJC6HL BULK	46	ACJR-RED	121	ACPM-GN	104
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ACPM-KB-AU	102	AG6M	51	AX5FD-M3	19	EP-6-13PB	66	MP-4101-25P	125
ACPM-KN	102	AG6MCC	51	AX5FDV	19	EP-6-14	66	MP-4101-25P-C	125
ACPM-KN-AU	102	AG6MCCH	51	AX5FDV-M3	19	EP-6-14B	66	MP-4101-37P	125
ACPM-RB	105	AP-4-11	67	AX5M	4	EP-8-11P	65	MP-4101-37P-C	125
ACPM-RB-AU	105	AP-4-12	67	AX5MB	4	EP-8-11PB	65	MP-4101-54P	125
ACPM-RB BULK	105	AP-4-13	67	AX5MB-AU	4	EP-8-12	65	MP-4101-54P-C	125
ACPM-RN	105	AP-4-14	67	AX5MB BULK	4	EP-8-12B	65	MP-4101-85P	125
ACPM-RN-AU	105	AP-4-21	67	AX5M BULK	4	EP-8-13P	66	MP-4101-85P-C	125
ACPM-RN BULK	105	AP-4-22	67	AX5MD	18	EP-8-13PB	66	MP-4101-150P	125
ACPM-TB	103	AP-5-11	67	AX5MDB	18	EP-8-14	66	MP-4101-150P-C	125
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ACPM-TB BULK	103	AP-5-13	67	AX5MD-M3	18			MP-4102-13P-C	126
ACPM-TN	103	AP-5-14	67	AX5MDV	18	H		MP-4102-19P	126
ACPM-TN-AU	103	AP-5-21	67	AX5MDVB	18			MP-4102-19P-C	126
ACPM-TN BULK	103	AP-5-22	67	AX5MDV-M3	18	HP-3-F	70	MP-4102-25P	126
ACPR-BLK	121	AP-6-11	67	AX6AFD	19	HP-3-FG	70	MP-4102-25P-C	126
ACPR-BLU	121	AP-6-12	67	AX6AFDB	19	HP-3-MD	70	MP-4102-37P	126
ACPR-GRN	121	AP-6-13	67	AX6AFD-M3	19	HP-3-MDG	70	MP-4102-37P-C	126
ACPR-RED	121	AP-6-14	67	AX6AFDV	19	HP-3-MDGV	70	MP-4102-54P	126
ACPR-SBK	121	AP-6-21	67	AX6AFDV-B	19	HP-3-MDW	70	MP-4102-54P-C	126
ACPR-SBL	121	AP-6-22	67	AX6AFDV-M3	19	HPT-3-CC	72	MP-4102-85P	126
ACPR-SGR	121	AP-8-11	67	AX6AMD	19	HPT-3-F	72	MP-4102-85P-C	126
ACPR-SRD	121	AP-8-12	67	AX6AMDB	19	HPT-3-FD	72	MP-4102-150P	126
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ACPS-GN-AU	104	AX3F BULK	3	AX-B00T-2	135	HPT-CAPM	73	MP-4106-37S-C	125
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ACPS-KB-AU	102	AX3FDB-AU	17	AX-B00T-5	135	HPT-CAPSM	73	MP-4106-85S	125
ACPS-KN	102	AX3FDB-M3	17	AX-B00T-6	135	HPT-RT	73	MP-4106-85S-C	125
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ACPS-RN	105	AX3MB BULK	3	AX-MARK1	135	JM2P-AU	96	MP-4164-19S	126
ACPS-RN-AU	105	AX3M BULK	3	AX-MARK2	135	JM2PB	96	MP-4164-19S-C	126
ACPS-RN BULK	105	AX3MD	17	AX-MARK3	135	JM2PB-AU	96	MP-4164-25S	126
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# PRODUCT SAFETY INFORMATION

This should be read in conjunction with Data Sheet information contained in individual product brochures. Failure to observe the advice in this information sheet and the operating conditions specified in the Data Sheets could result in hazardous situations.

## 1. Material Content and Physical Form

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials. Shells are manufactured in metal and plastic. Insulators can be formed in either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with the type of connector and its application. They are usually manufactured from either copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

## 2. Fire Characteristics and Electric Shock Hazard

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionisation and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, or broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering.

Overheating may occur if the ratings in the Data Sheets are exceeded and can cause breakdown of insulation and hence electric shock.

If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper or spring contact, formation of oxide film on contacts and wires, and leakage currents through carbonisation of insulation and tracking points. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

## 3. Handling

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

## 4. Disposal

Incineration of certain materials may release noxious or even toxic fumes.

## 5. Application

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts of an unmated connector. Voltages in excess of 30 V.A.C. or 42.5

V.D.C. are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheets. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

## Important General Information

### A) Air and creepage paths / Operating voltage.

The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

### B) Other important information

Amphenol Australia Pty Ltd continuously endeavours to improve its products. Therefore, products may deviate from the description, technical data and shape as shown in product brochures.

### C) Assembly instructions

If applicable, special assembly instructions have been included in or on the connector packaging. See also separate instructions in product brochures.







DISTRIBUTED BY

## International Headquarters

### **Amphenol Australia Pty Ltd**

22 Industry Blvd.  
Carrum Downs VIC 3201 Australia

Phone: +61 3 8796 8888  
Email: [info@amphenol.com.au](mailto:info@amphenol.com.au)

## Europe

### **Amphenol Audio Representative Office**

August-Haessler – Str. 10  
74080 Heilbronn Germany

Phone: +49 71 31 9 29 0  
Email: [industrial@amphenol.de](mailto:industrial@amphenol.de)

## North America

### **Amphenol Audio Representative Office**

44724 Morley Drive  
Clinton Township, MI, USA 48036

Phone: +1 800 394 7732 or +1 586 913 8650  
Email: [sales@amphenolaudio.com](mailto:sales@amphenolaudio.com)

## Asia Pacific

### **Amphenol Australia (China Operations)**

3rd floor, Building 9 Shan Cheng Industrial Zone,  
Zhou Shi Road, Shi Yan Street, Bao An District,  
Shen Zhen, China 518108

Phone: (+86) 755 8173 8000  
Email: [apcd@amphenol.com.au](mailto:apcd@amphenol.com.au)

**[www.amphenolaudio.com.au](http://www.amphenolaudio.com.au)**

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