



*Audio*  
CONNECTORS



# Amphenol

ENTERTAINMENT INTERCONNECT CATALOGUE

Amphenol Australia Pty Ltd



## 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. Satellite facilities of Amphenol Australia also exist in Colorado and Los Angeles, in the USA as well as Shenzhen, China.

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 Amphenol Audio international brand name was launched by Amphenol Australia in 2006 and represents the flag ship of one of the company's main core businesses and specialist product ranges. 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.

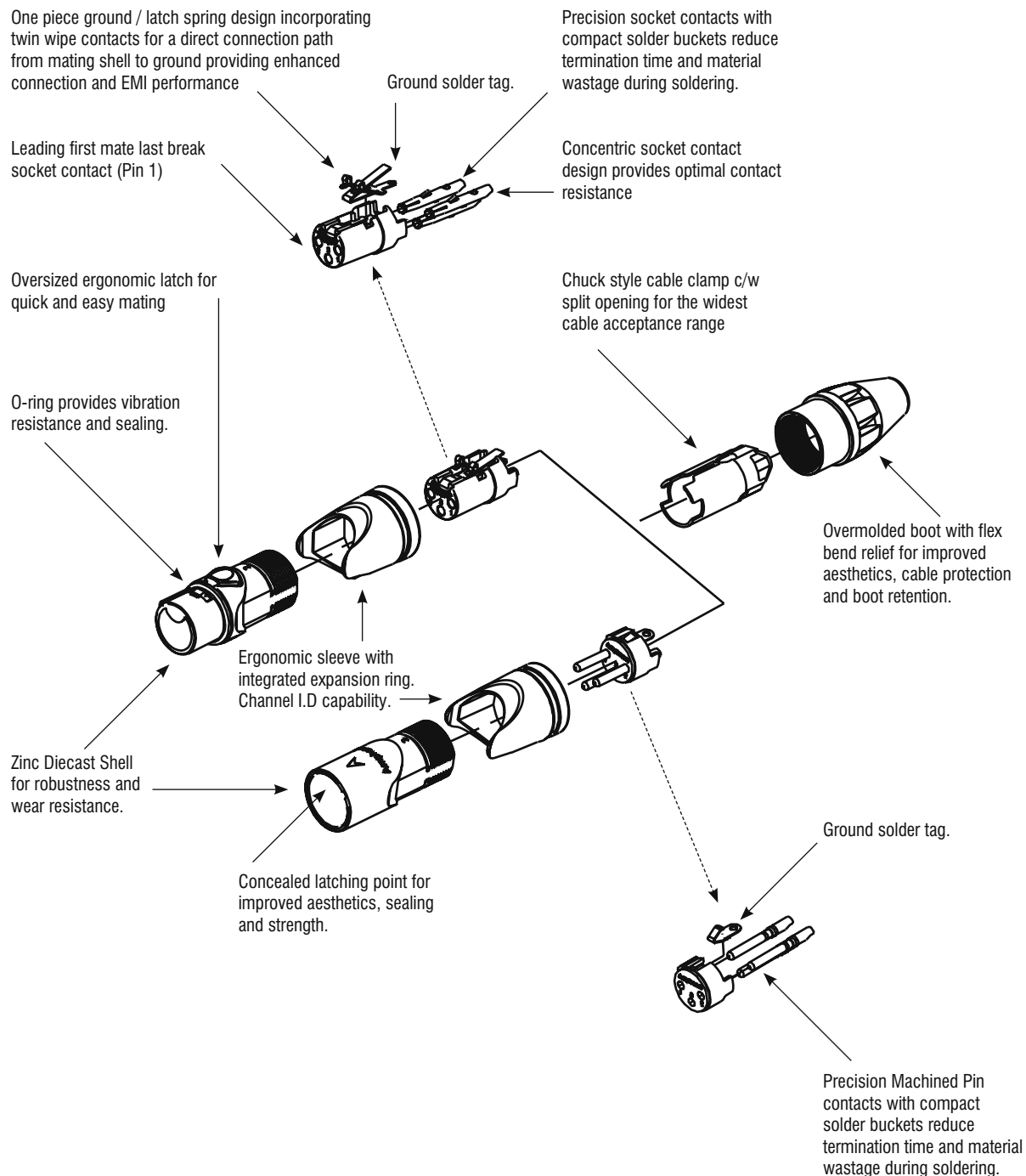
The ability of Amphenol to provide a full range of design services required to support the customers applications design and modelling, applications engineering, fabrication, value-added assembly and testing, coupled with the largest interconnect offering on the market means that we can support all of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

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## ISO VIEW OF AX SERIES XLR CABLE CONNECTOR





## 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.

### 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:**

- 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 6**

**Specifications: Page 9**

**Assembly Instructions: Page 7 & 8**

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

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



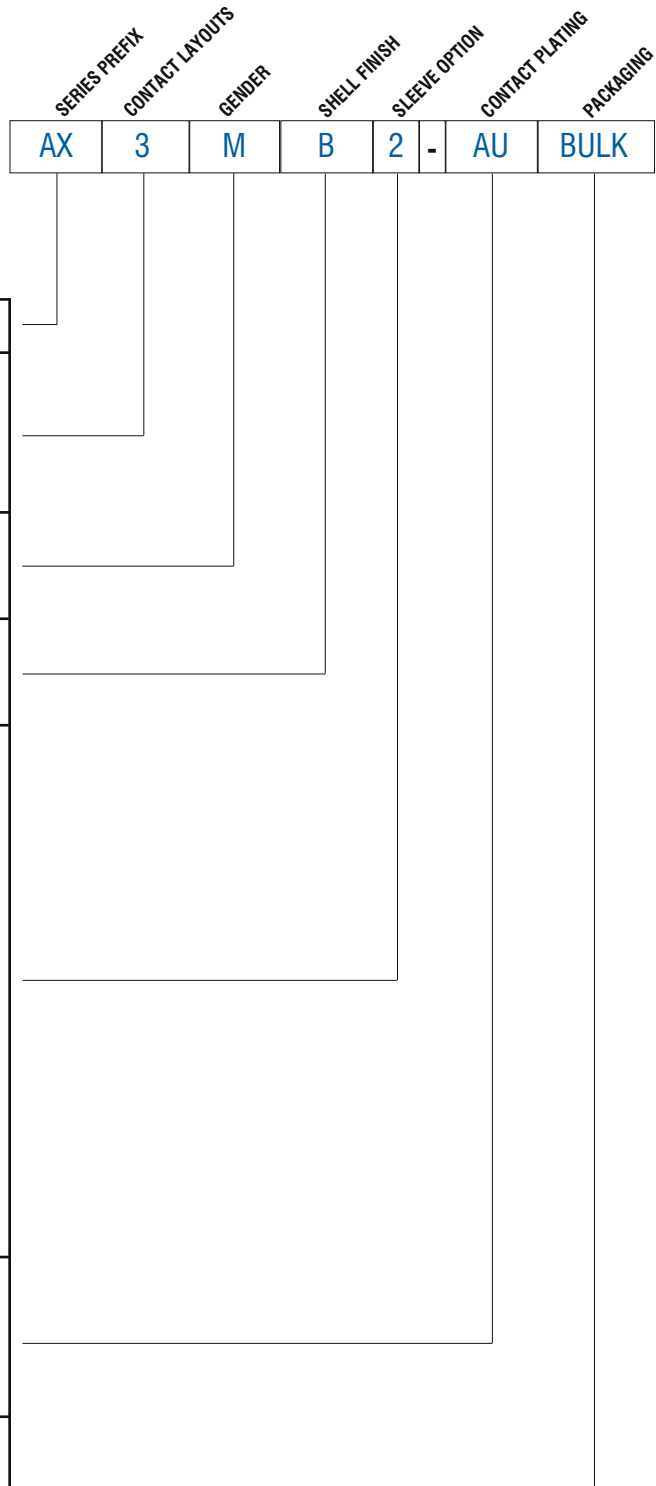
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male Machined contacts Black Finish	Standard	AX4MB
			Gold Plated Contacts	AX4MB-AU
			Bulk Pack	AX4MB BULK
		XLR 4 pole female Machined contacts Nickel Finish	Standard	AX4F
			Gold Plated Contacts	AX4F-AU
			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
			Gold Plated Contacts	AX5M-AU
			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
			Gold Plated Contacts	AX5F-AU
			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. **AX3MB2-AU BULK**  
**AX** (Series Prefix), **3** contacts, **M**ale, **B**lack Finish,  
**2** (Red Sleeve)- **AU** (Gold Plated Contacts), **BULK** Packaged.



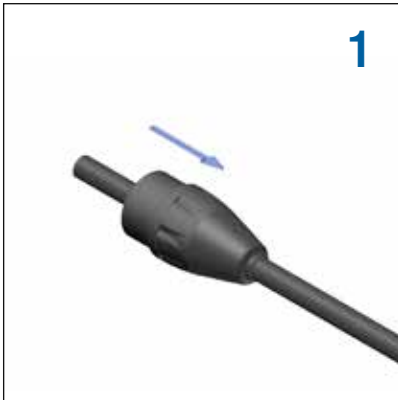
<b>SERIES PREFIX</b>	AX	=	Series Prefix
<b>CONTACT LAYOUTS</b>	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>SHELL FINISH</b>	Blank	=	Nickel Plated Finish
	B	=	Black Finish
<b>SLEEVE OPTION</b>	1	=	Brown
	2	=	Red
	3	=	Orange
	4	=	Yellow
	5	=	Green
	6	=	Blue
	7	=	Violet
	8	=	Grey
	9	=	White
<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



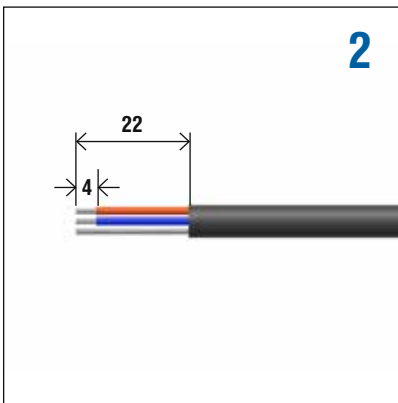


## PI539 ASSEMBLY INSTRUCTIONS

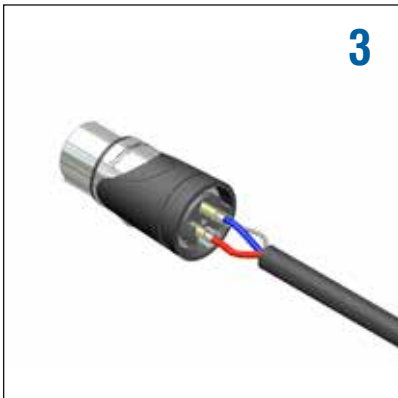
AX SERIES FEMALE XLR  
CABLE CONNECTOR



Slide the nut (Backshell) onto the cable



Strip the cable



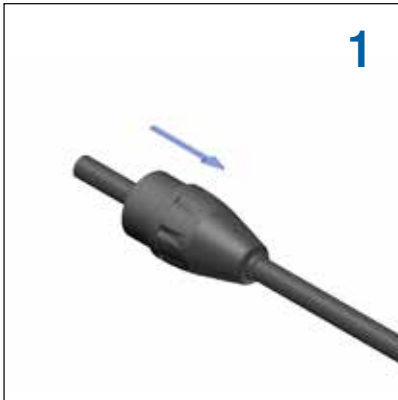
Push back the insert only enough to expose the solder buckets. It is not necessary to remove the insert. Solder the wires to the contacts.



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.

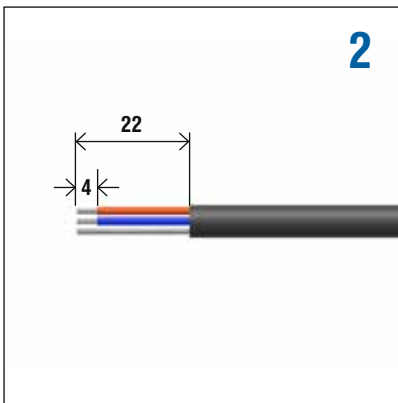


Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.



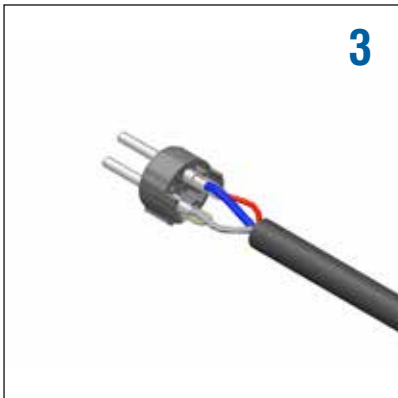
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Slide the nut (Backshell) onto the cable



2

Strip the cable



3

Solder the wires to the contacts.



4

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



5

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

## PI538 ASSEMBLY INSTRUCTIONS

AX SERIES MALE XLR  
CABLE CONNECTOR

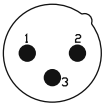
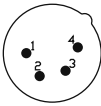
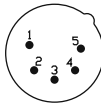


6

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)		

Rev 3 - 03/2013

<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.

# Amphenol



## 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 other 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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**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.)


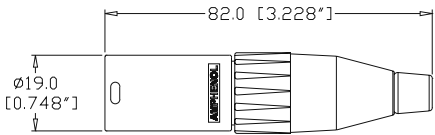

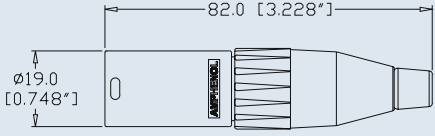

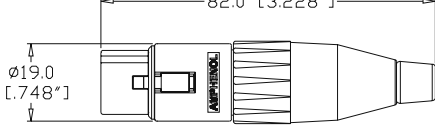

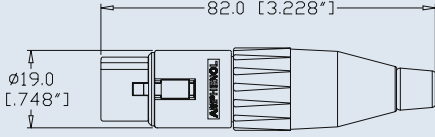

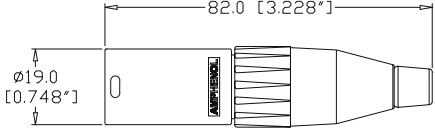

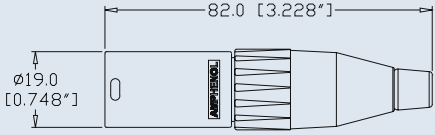

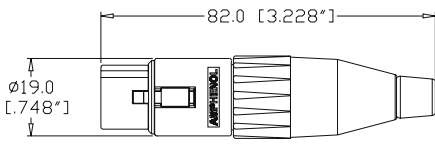

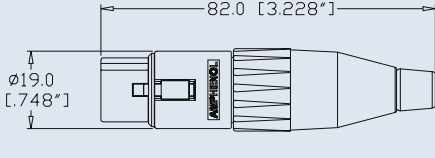
**Options:** Stamped Contacts (3 contact only), Gold plated contacts, Large or Small Jaws Cable Clamp, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells








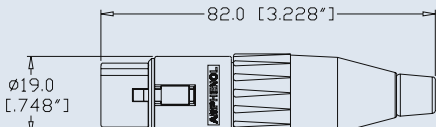



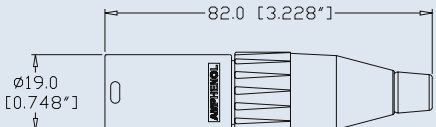

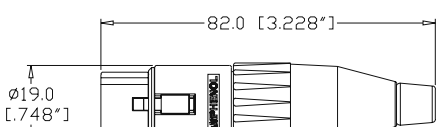

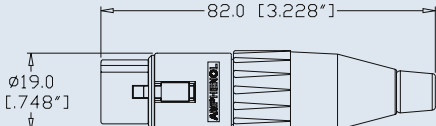
**Part Number Breakdown: Page 14**

**Specifications: Page 16**



PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC3MM
			Gold Plated Contacts	AC3MM-AU
			Large Cable Clamp	AC3MMJ
			Bulk Pack	AC3MM BULK
		XLR 3 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC3MMB
			Gold Plated Contacts	AC3MMB-AU
			Large Cable Clamp	AC3MMBJ
			Bulk Pack	AC3MMB BULK
		XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3M
			Gold Plated Contacts	AC3M-AU
			Large Cable Clamp	AC3MJ
			Bulk Pack	AC3M BULK
		XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC3MB
			Gold Plated Contacts	AC3MB-AU
			Large Cable Clamp	AC3MBJ
			Bulk Pack	AC3MB BULK
		XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3F
			Gold Plated Contacts	AC3F-AU
			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
			Large Cable Clamp	AC3FBJ
			Bulk Pack	AC3FB BULK

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4M
			Gold Plated Contacts	AC4M-AU
			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
			Bulk Pack	AC4MB BULK
		XLR 4 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4F
			Gold Plated Contacts	AC4F-AU
			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
			Bulk Pack	AC4FB BULK
		XLR 5 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5M
			Gold Plated Contacts	AC5M-AU
			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
			Bulk Pack	AC5MB BULK
		XLR 5 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5F
			Gold Plated Contacts	AC5F-AU
			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
			Bulk Pack	AC5FB BULK

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AM
			Gold Plated Contacts	AC6AM-AU
			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
			Bulk Pack	AC6AMB BULK
		XLR 6A pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AF
			Gold Plated Contacts	AC6AF-AU
			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
			Bulk Pack	AC6AFB BULK
		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

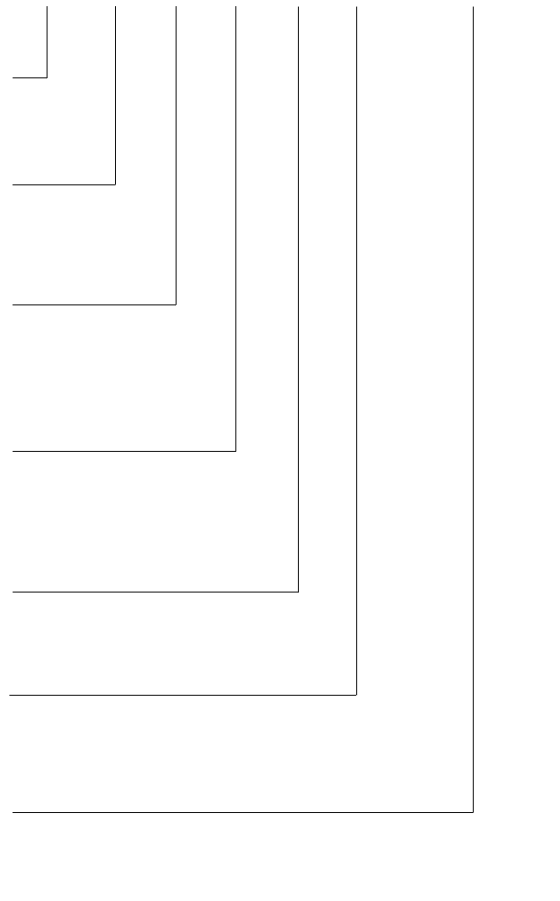
### METAL SHELL TYPE - SOLDER

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.

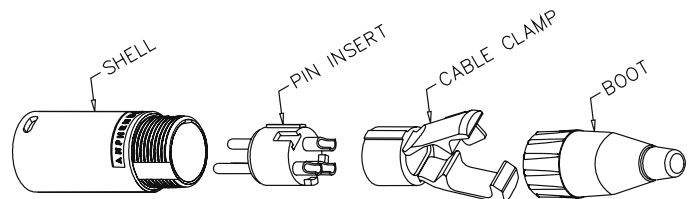
SERIES PREFIX    CONTACT LAYOUTS    GENDER    CONTACT    SHELL FINISH    CABLE CLAMP    CONTACT PLATING    PACKAGING

AC    3    M    M    B    J    -    AU    BULK



<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

### ISO VIEW OF AC3MM



**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 134 and simply add colour to end of part number. Example: AC3MM - RED





**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.

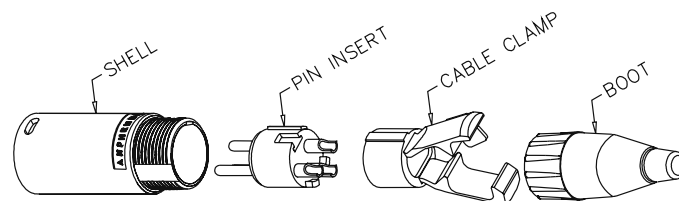
**Specifications:** Page 16



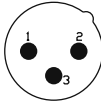
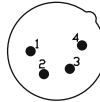
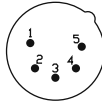
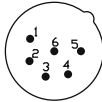
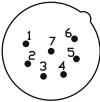
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Machined contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3MMCP
			Gold Plated Contacts	AC3MMCP-AU
			Large Cable Clamp	AC3MMCPJ
			Bulk Pack	AC3MMCP BULK
		XLR 3 pole male, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3MCP
			Gold Plated Contacts	AC3MCP-AU
			Large Cable Clamp	AC3MCPJ
			Bulk Pack	AC3MCP BULK
		XLR 3 pole female, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3FCP
			Gold Plated Contacts	AC3FCP-AU
			Large Cable Clamp	AC3FCPJ
			Bulk Pack	AC3FCP BULK

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

**ISO VIEW OF AC3MM**



## STANDARD DATA AC CABLE CONNECTORS

		VALUE				
<b>GENERAL CHARACTERISTICS</b>	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 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		5A
	Typical Contact Resistance	≤3mΩ				
	Insulation Resistance	≥1GΩ				
<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 - 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 Solder Large Solder	3mm to 6.5mm (0.118" to 0.255") 6.5mm to 8mm (0.255" to 0.314")				
	Mechanical Operations	1000 mating cycles				

Rev 6 - 03/2015

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

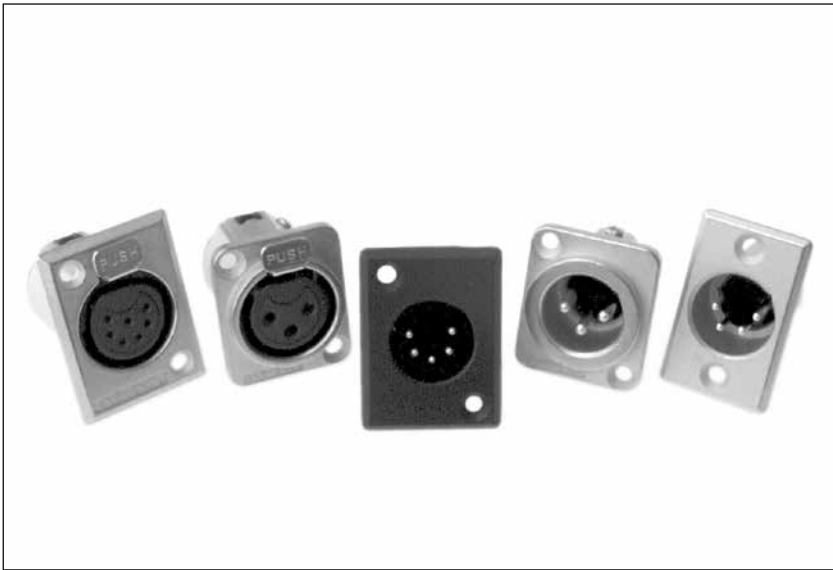
<sup>2</sup>) Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

## STANDARD DATA AC CABLE CONNECTORS

MATERIALS		DETAILS
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 134
Cable clamp	Standard Solder JAWS Large Solder JAWS	UL94V-0 Modified PPO Resin (Black) UL94V-0 Modified PPO Resin (Purple)
Cable Bushing		Santoprene
Male Contact	Stamped - Solder / Plating Machined - Solder / Plating	Phosphor Bronze / Silver or Gold (Optional) Brass / Silver or Gold (Optional)
Female Contact	Stamped - Solder / Plating Machined - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional) Brass / Silver or Gold (Optional)

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## AC “Z” SERIES XLR METAL CHASSIS MOUNT CONNECTORS

The metal chassis mount “Z” series connectors are designed for the audio user where durability, reliability and strength across a wide range of applications are important. All AC 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

**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.

### 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)

### 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 (not available in 4 contact female).
- 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, Vertical PCB contacts, Black finish, Non-Latching (Female only), Bulk Pack.

**Part Number Breakdown:** Page 25


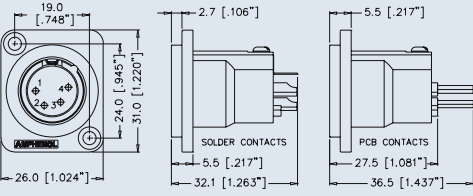

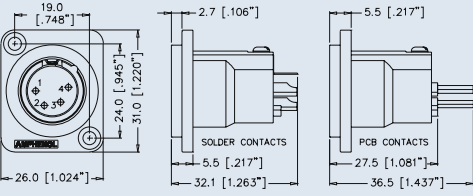

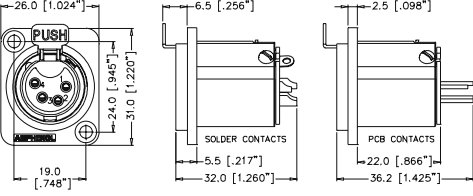

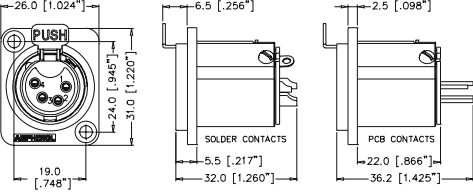

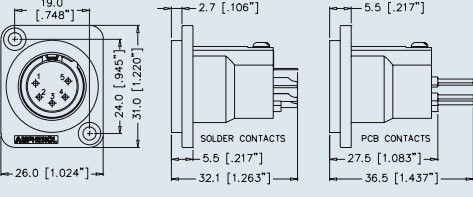

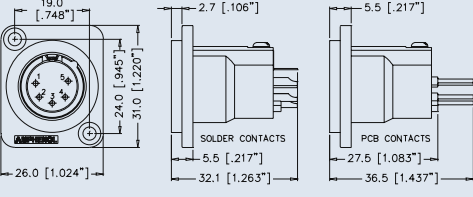

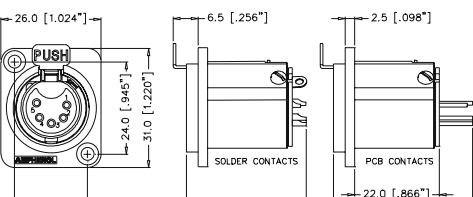

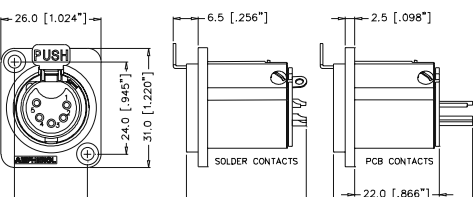
**Specifications:** Page 26

**PCB Footprints:** Page 27

**Panel Cutouts:** Page 27



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC3MMDZ
				Gold Plated Contacts	AC3MMDZ-AU
				Vertical PCB	AC3MMDZV
				Bulk Pack	AC3MMDZ BULK
			XLR 3 pole male, D Flange, Machined contacts, Black Finish	Standard	AC3MMDZB
				Gold Plated Contacts	AC3MMDZB-AU
				Vertical PCB	AC3MMDZVB
				Bulk Pack	AC3MMDZB BULK
			XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	AC3MDZ
				Gold Plated Contacts	AC3MDZ-AU
				Bulk Pack	AC3MDZ BULK
			XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Standard	AC3MDZB
				Gold Plated Contacts	AC3MDZB-AU
				Bulk Pack	AC3MDZB BULK
			XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC3FDZ
				Gold Plated Contacts	AC3FDZ-AU
				Bulk Pack	AC3FDZ BULK
			XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	AC3FDZB
				Gold Plated Contacts	AC3FDZB-AU
				Bulk Pack	AC3FDZB BULK

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		<p>Dimensions in mm (inches)</p>	<p>XLR 4 pole male, D Flange, Machined contacts, Nickel Finish</p>	Standard	AC4MDZ
				Gold Plated Contacts	AC4MDZ-AU
				Vertical PCB	AC4MDZV
				Bulk Pack	AC4MDZ BULK
		<p>Dimensions in mm (inches)</p>	<p>XLR 4 pole male, D Flange, Machined contacts, Black Finish</p>	Standard	AC4MDZB
				Gold Plated Contacts	AC4MDZB-AU
				Vertical PCB	AC4MDZVB
				Bulk Pack	AC4MDZB BULK
		<p>Dimensions in mm (inches)</p>	<p>XLR 4 pole female, D Flange, Machined contacts, Nickel Finish</p>	Standard	AC4FDZ
				Gold Plated Contacts	AC4FDZ-AU
				Vertical PCB	AC4FDZV
				Bulk Pack	AC4FDZ BULK
		<p>Dimensions in mm (inches)</p>	<p>XLR 4 pole female, D Flange, Machined contacts, Black Finish</p>	Standard	AC4FDZB
				Gold Plated Contacts	AC4FDZB-AU
				Vertical PCB	AC4FDZVB
				Bulk Pack	AC4FDZB BULK
		<p>Dimensions in mm (inches)</p>	<p>XLR 5 pole male, D Flange, Machined contacts, Nickel Finish</p>	Standard	AC5MDZ
				Gold Plated Contacts	AC5MDZ-AU
				Vertical PCB	AC5MDZV
				Bulk Pack	AC5MDZ BULK
		<p>Dimensions in mm (inches)</p>	<p>XLR 5 pole male, D Flange, Machined contacts, Black Finish</p>	Standard	AC5MDZB
				Gold Plated Contacts	AC5MDZB-AU
				Vertical PCB	AC5MDZVB
				Bulk Pack	AC5MDZB BULK
		<p>Dimensions in mm (inches)</p>	<p>XLR 5 pole female, D Flange, Machined contacts, Nickel Finish</p>	Standard	AC5FDZ
				Gold Plated Contacts	AC5FDZ-AU
				Vertical PCB	AC5FDZV
				Bulk Pack	AC5FDZ BULK
		<p>Dimensions in mm (inches)</p>	<p>XLR 5 pole female, D Flange, Machined contacts, Black Finish</p>	Standard	AC5FDZB
				Gold Plated Contacts	AC5FDZB-AU
				Vertical PCB	AC5FDZVB
				Bulk Pack	AC5FDZB BULK

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC6AMDZ
			Gold Plated Contacts	AC6AMDZ-AU
			Vertical PCB	AC6AMDZV
			Bulk Pack	AC6AMDZ BULK
		XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	AC6AMDZB
			Gold Plated Contacts	AC6AMDZB-AU
			Vertical PCB	AC6AMDZVB
			Bulk Pack	AC6AMDZB BULK
		XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC6AFDZ
			Gold Plated Contacts	AC6AFDZ-AU
			Vertical PCB	AC6AFDZV
			Bulk Pack	AC6AFDZ BULK
		XLR 6A pole female, D Flange, Machined contacts, Black Finish	Standard	AC6AFDZB
			Gold Plated Contacts	AC6AFDZB-AU
			Vertical PCB	AC6AFDZVB
			Bulk Pack	AC6AFDZB BULK
		XLR 7 pole male, D Flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7MDZ
			Vertical PCB	AC7MDZV
			Bulk Pack	AC7MDZ BULK
Vertical PCB	AC7MDZVB			
Bulk Pack	AC7MDZB BULK			
		XLR 7 pole female, D Flange, Gold Plated Machined contacts, Nickel Finish		
			Vertical PCB	AC7FDZV
			Bulk Pack	AC7FDZ BULK
Vertical PCB	AC7FDZVB			
Bulk Pack	AC7FDZB BULK			



## METAL P TYPE FLANGE - SOLDER AND PCB



### Features:


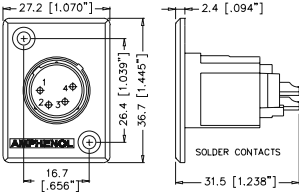

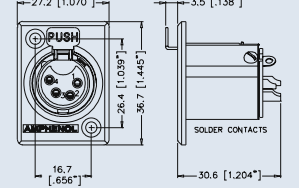

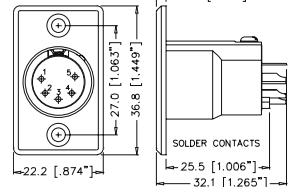

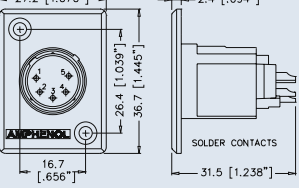

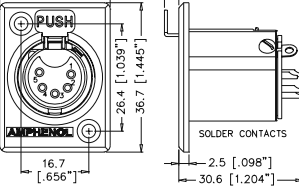

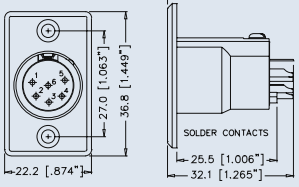

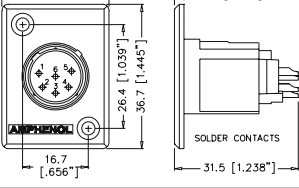

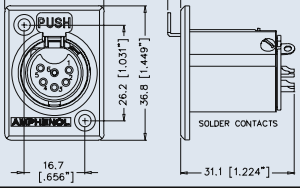
- Zinc Diecast shell.
- The P size housing is the original wide flange front mounting XLR connector. PN is the original narrow, front mounting male connector.
- Solder Bucket connections.
- Precision Machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- Positive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

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


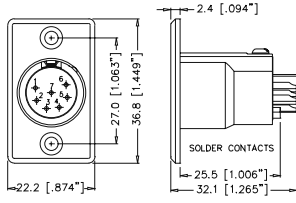

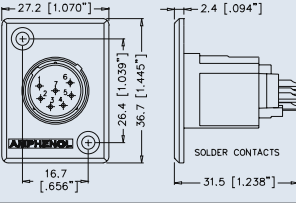

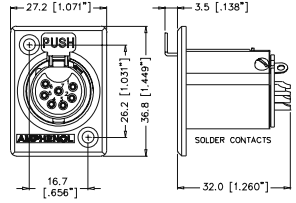
**Part Number Breakdown: Page 25   Specifications: Page 26**  
**PCB Footprints: Page 27   Panel Cutouts: Page 27**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 32.1 [1.265"]	XLR 3 pole male, Narrow flange, Machined contacts	Standard Black Finish	AC3MMPNZ AC3MMPNZB
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 32.1 [1.265"]	XLR 3 pole male, Narrow flange, Stamped contacts,	Standard Black Finish	AC3MPNZ AC3MPNZB
		27.2 [1.070"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"]	XLR 3 pole male, Wide flange, Machined contacts	Standard Black Finish	AC3MMP AC3MMPB
		2.4 [.094"] 27.2 [1.070"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 32.5 [1.278"]	XLR 3 pole male, Wide flange, Stamped contacts	Standard Black Finish	AC3MP AC3MPB
		27.2 [1.070"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 3.5 [1.38"] 2.5 [.098"] 31.0 [1.220"]	XLR 3 pole female, Wide flange, Stamped contacts	Standard Black Finish	AC3FPZ AC3FPZB
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 32.1 [1.265"]	XLR 4 pole male, Narrow flange, Machined contacts	Standard Black Finish	AC4MPNZ AC4MPNZB



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"]	XLR 4 pole male, Wide flange, Machined contacts	Standard Black Finish	AC4MP AC4MPB
		27.2 [1.070"] 3.5 [.138"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 30.6 [1.204"]	XLR 4 pole female, Wide flange, Machined contacts	Standard Black Finish	AC4FPZ AC4FPZB
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 25.5 [1.006"] 32.1 [1.265"]	XLR 5 pole male, Narrow flange, Machined contacts	Standard Black Finish	AC5MPNZ AC5MPNZB
		27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"]	XLR 5 pole male, Wide flange, Machined contacts	Standard Black Finish	AC5MP AC5MPB
		27.2 [1.070"] 3.5 [.138"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 30.6 [1.204"]	XLR 5 pole female, Wide flange, Machined contacts	Standard Black Finish	AC5FPZ AC5FPZB
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 25.5 [1.006"] 32.1 [1.265"]	XLR 6A pole male, Narrow flange, Machined contacts	Standard Black Finish	AC6AMPNZ AC6AMPNZB
		27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"]	XLR 6A pole male, Wide flange, Machined contacts	Standard Black Finish	AC6AMP AC6AMPB
		27.2 [1.071"] 3.5 [.138"] 26.2 [1.031"] 36.8 [1.449"] 16.7 [.656"] 31.1 [1.224"]	XLR 6A pole female, Wide flange, Machined contacts	Standard Black Finish	AC6AFPZ AC6AFPZB



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 7 pole male, Narrow flange, Gold Plated Machined contacts	Standard	AC7MPNZ
				Black Finish	AC7MPNZB
			XLR 7 pole male, Wide flange, Gold Plated Machined contacts	Standard	AC7MP
				Black Finish	AC7MPB
			XLR 7 pole female, Wide flange, Gold Plated Machined contacts	Standard	AC7FPZ
				Black Finish	AC7FPZB

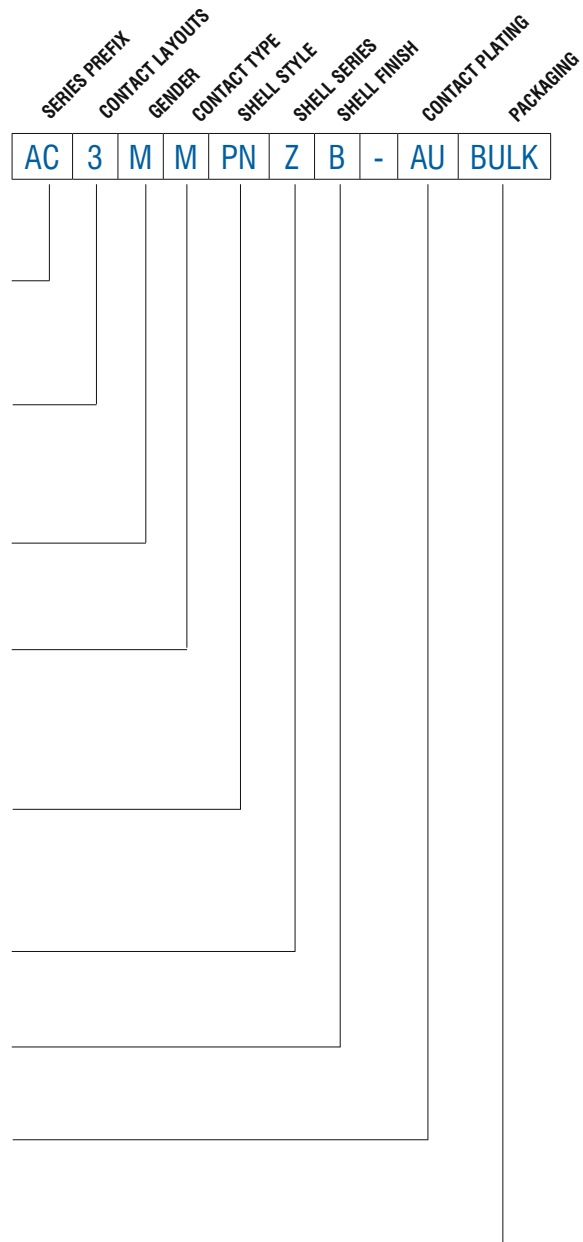


## PART NUMBER BREAKDOWN

### METAL TYPE FLANGE

E. G. **AC3MMPNZVB-AU BULK**  
**AC** (Series Prefix), **3** contacts, **M**ale, **M**achined Contacts, **PN** (Narrow Flange), **Z** (Metal Chassis Series), **B**lack 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.

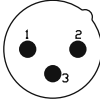
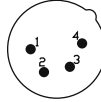
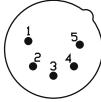
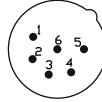
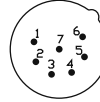
<sup>2</sup> Ground contacts are not supplied with the black polyester finish shell option.

<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 SERIES CHASSIS - METAL "Z"

		VALUE				
<b>GENERAL CHARACTERISTICS</b>	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
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	1400V				
	Current carrying capacity:					
	Solder	15A	10A	7.5A	7.5A	5A
	Printed Circuit Board (PCB)	15A	10A	7.5A	7.5A	5A
	Typical Contact Resistance	≤3mΩ				
Insulation Resistance	≥1000MΩ					
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40				
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)				
<b>MECHANICAL CHARACTERISTICS</b>	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				
<b>MATERIALS</b>	Connector Shell	Diecast Zinc Alloy				
	Shell Finish	Satin Nickel or Black Polyester				
	Insulators	UL94V-0 PBT Resin or Modified PPE 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)					

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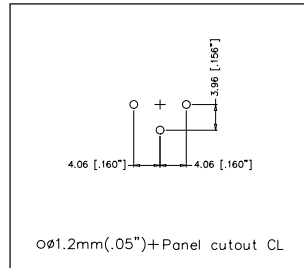
<sup>1)</sup> Not suitable for domestic applications above 50V

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

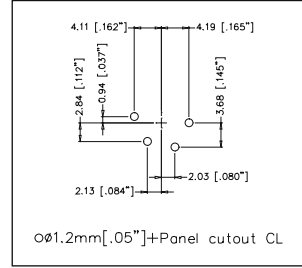
## AC SERIES CHASSIS METAL "Z"

### PCB FOOTPRINTS STRAIGHT (V)

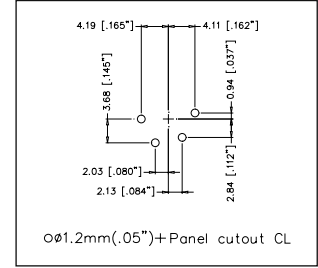
#### CONNECTOR SIDE OF PCB



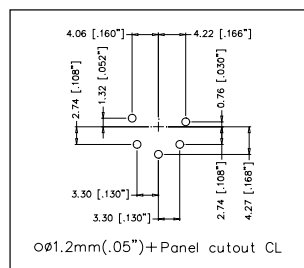
**AC3MM\*ZV**



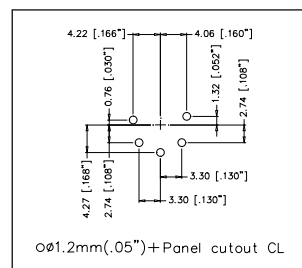
**AC4F\*ZV**



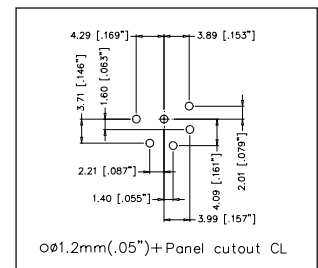
**AC4M\*ZV**



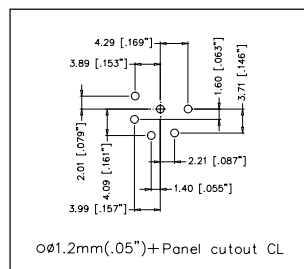
**AC5F\*ZV**



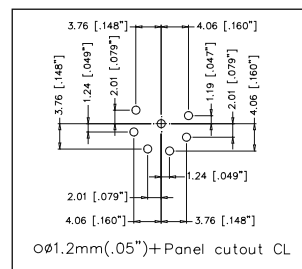
**AC5M\*ZV**



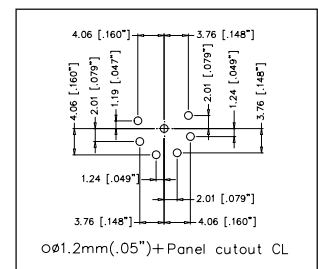
**AC6AF\*ZV**



**AC6AM\*ZV**



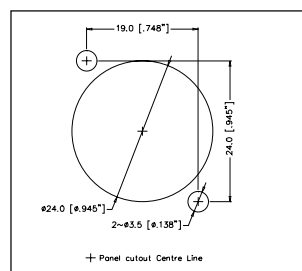
**AC7F\*ZV**



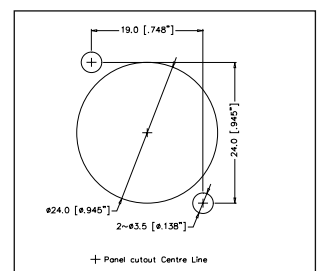
**AC7M\*ZV**

### PANEL CUTOUT DIMENSIONS

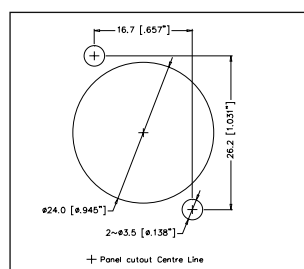
#### FRONT VIEW



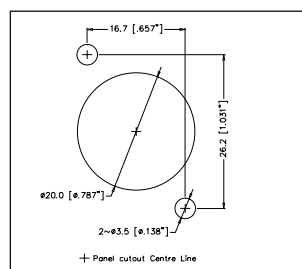
**AC\*FDZ**



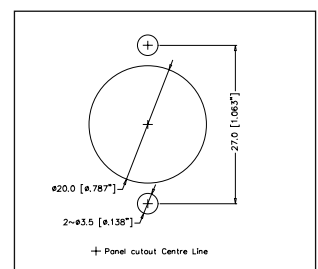
**AC\*MDZ**



**AC\*FPZ**



**AC\*MP**



**AC\*MPNZ**



## 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 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.

# Amphenol

AC SERIES CHASSIS CONNECTORS

## THERMOPLASTIC A - TYPE FLANGE 3 CONTACT




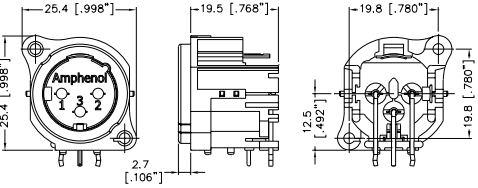

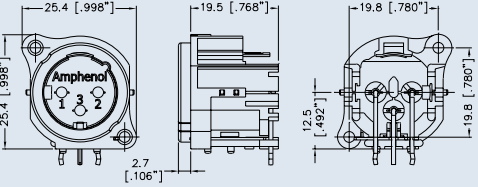

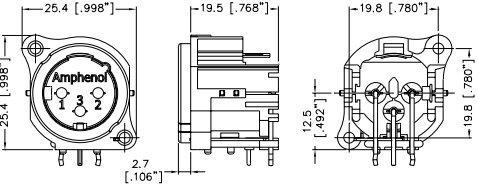

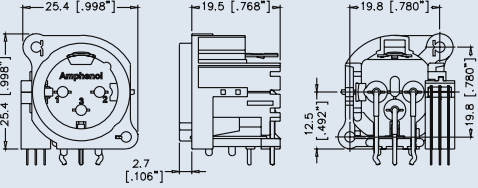

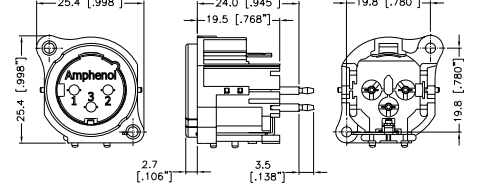
### Features:

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

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

**Part Number Breakdown: Page 37 Specifications: Page 40  
PCB Footprints: Page 41 Panel Cutouts: Page 42  
Recommended Fastener: Page 132**


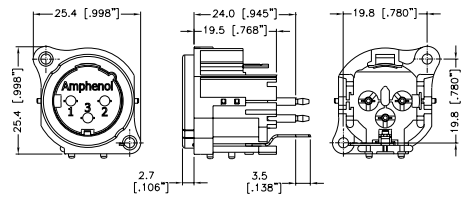

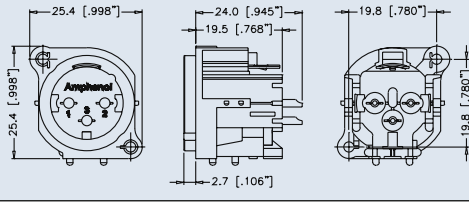

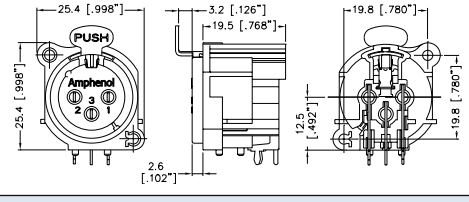

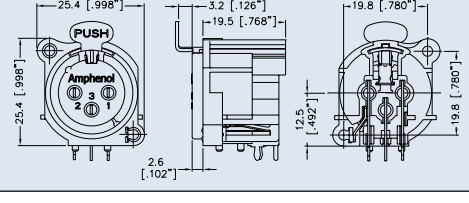

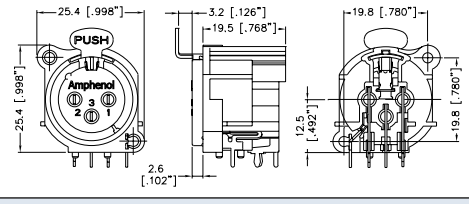

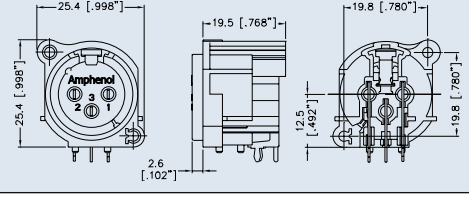

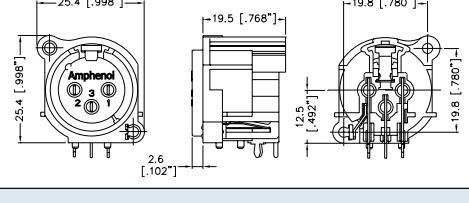

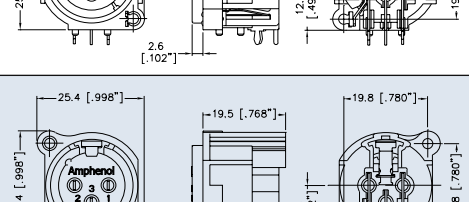


PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAH-AU-PRE
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAH1-AU-PRE
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAH2-AU-PRE
			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
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-PRE


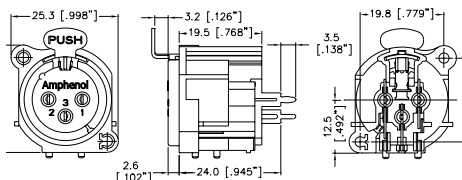

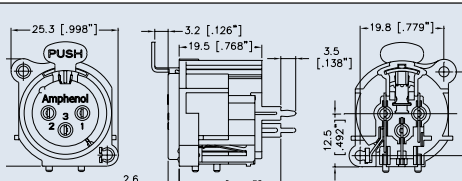

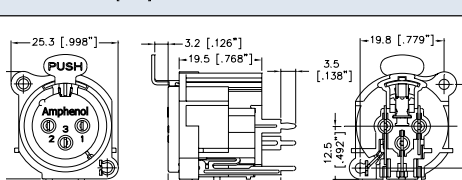

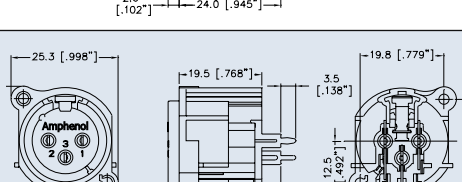

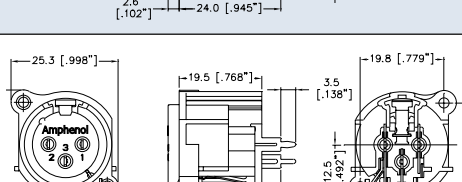

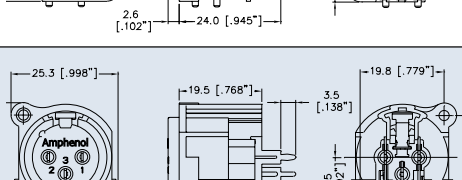
# Amphenol

AC SERIES CHASSIS CONNECTORS

## THERMOPLASTIC A TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole 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



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	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 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





**Features:**

- Thermoplastic Shell with Metal Mounting Flange.
- 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 37    Specifications: Page 40**  
**PCB Footprints: Page 41    Panel Cutouts: Page 42**  
**Recommended Fastener: Page 132**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
		25.3 [ .996" ] 19.5 [ .768" ] 19.8 [ .780" ] 25.3 [ .996" ] 2.7 [ .106" ] 3.5 [ .139" ] 12.5 [ .492" ] 19.8 [ .780" ]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3MBH-AU-B
		25.3 [ .996" ] 19.5 [ .768" ] 19.8 [ .780" ] 25.3 [ .996" ] 2.7 [ .106" ] 3.5 [ .139" ] 12.7 [ .500" ] 19.8 [ .780" ]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBH1-AU-B
		25.3 [ .996" ] 19.5 [ .768" ] 19.8 [ .780" ] 25.3 [ .996" ] 2.7 [ .106" ] 3.5 [ .139" ] 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	Nickel Finish	AC3MBH2-AU-B
		25.3 [ .996" ] 19.5 [ .768" ] 19.8 [ .780" ] 25.3 [ .996" ] 2.7 [ .106" ] 3.5 [ .139" ] 12.5 [ .492" ] 19.8 [ .780" ]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack  Mating connector shell to Pin 1	Nickel Finish	AC3MBH3-AU-B
		25.3 [ .996" ] 19.5 [ .768" ] 19.8 [ .780" ] 25.3 [ .996" ] 2.7 [ .106" ] 3.5 [ .139" ] 12.5 [ .492" ] 19.8 [ .780" ]	XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3MBHL-AU-B
		25.3 [ .996" ] 19.5 [ .768" ] 19.8 [ .780" ] 25.3 [ .996" ] 2.7 [ .106" ] 3.5 [ .139" ] 12.5 [ .492" ] 19.8 [ .780" ] 24.0 [ .945" ]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3MBV-AU-B


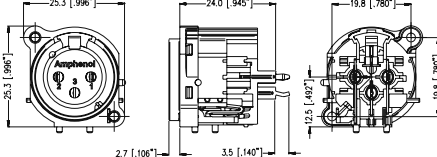

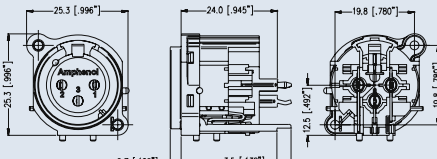

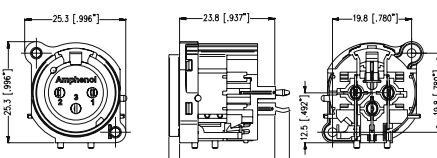
**METAL B TYPE FLANGE**

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-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3MBV2-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  Mating connector shell to Pin 1	Nickel Finish	AC3MBV3-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3FBH-AU-B
			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-B
			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-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish	AC3FBH3-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3FBHL-AU-B



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



PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	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-B
		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-B
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish	AC3FBVL3-AU-B



## THERMOPLASTIC A - TYPE FLANGE 5 CONTACT


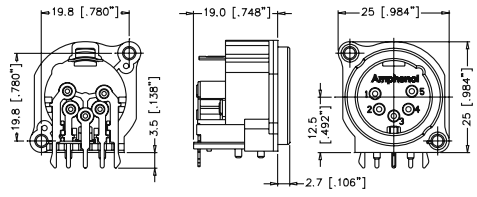

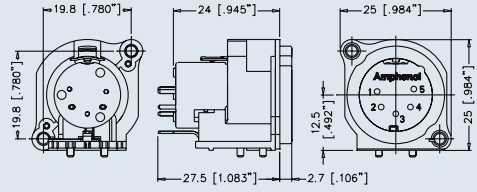

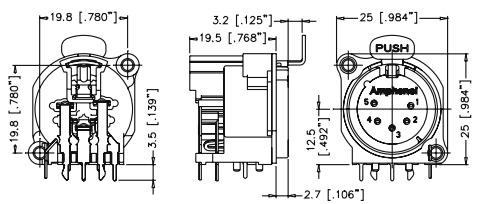

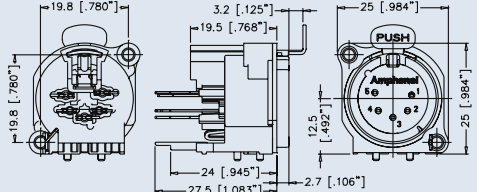


### Features:

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

**Options:** Vertical or Horizontal PCB,

**Part Number Breakdown:** Page 39    **Specifications:** Page 40  
**PCB Footprints:** Page 41    **Panel Cutouts:** Page 42  
**Recommended Fastener:** Page 132

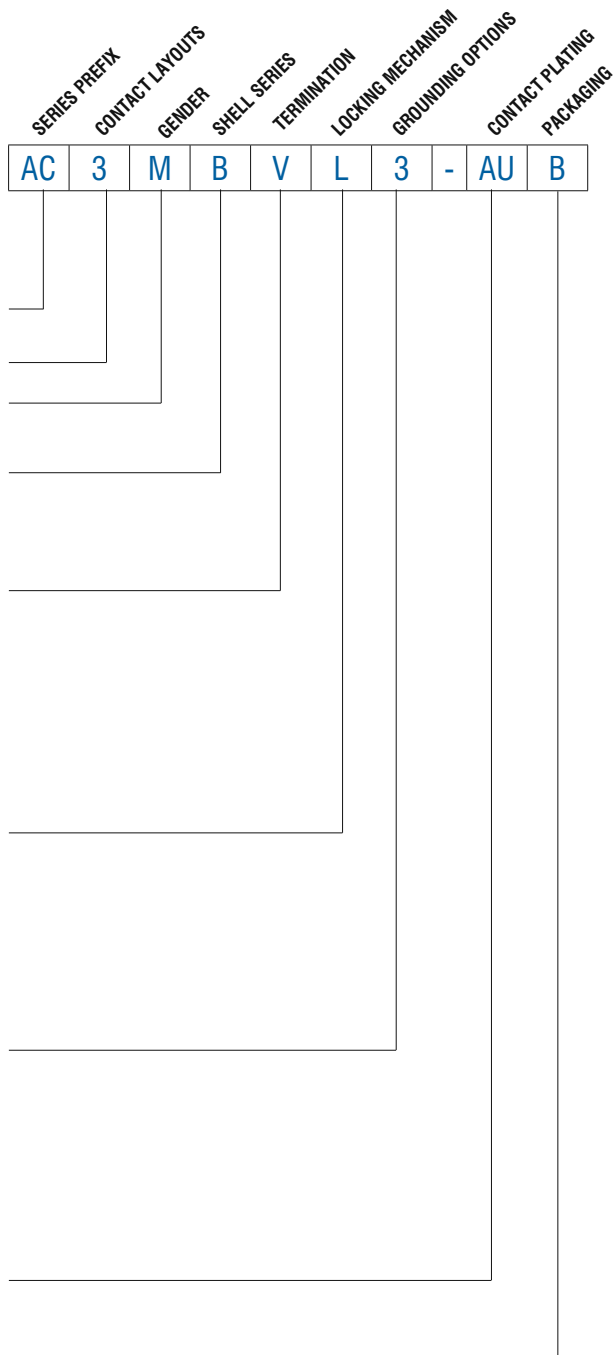
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
			XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5MAH-AU-B
			XLR 5 pole male, Verti- cal PCB, Gold Plated 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

## PART NUMBER BREAKDOWN

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

E. G. **AC3MAVL3-AU B**  
**AC** (series prefix), **3** contacts, **M**ale, **A** Type, **V**ertical Printed Circuit Board, **L**atchless, **3** (Mating Shell to Pin 1 Grounding), **- AU** (Gold Plated Contacts), **B**ulk 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	=	A Type
	B	=	B Type
<b>TERMINATION</b>	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
	Blank	=	Solder Bucket Contacts
<b>MOUNTING FLANGE FINISH (B TYPE ONLY)</b>	Blank	=	Nickel
<b>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	=	Mating connector to Pin 1
<b>CONTACT PLATING</b>	AU	=	Gold Plated Contacts
	AG	=	Silver Plated Contacts (Non-Standard)
<b>PACKAGING</b>	B	=	Bulk Packed



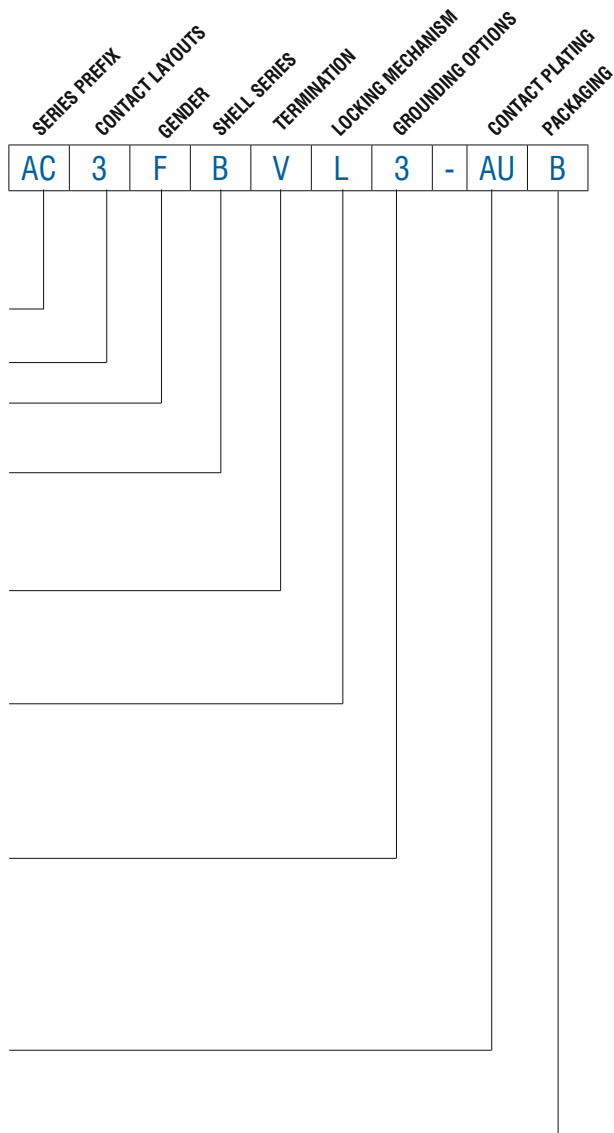
## PART NUMBER BREAKDOWN

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



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), **B**ulk 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>	B	=	Bulk Packed



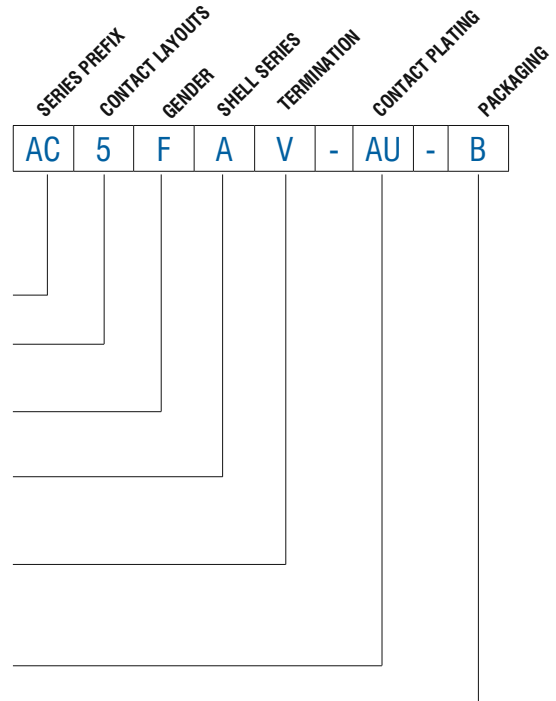


## PART NUMBER BREAKDOWN



AC SERIES A TYPE MALE AND FEMALE - 5 CONTACT

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

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



## STANDARD DATA AC SERIES A AND B TYPE CHASSIS

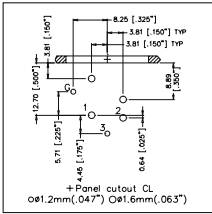
		VALUE	
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	3	5
	Contact Arrangements (Front view of pin insert)		
	Termination	Printed Circuit Board (PCB)	
	Flammability rating of plastics	UL94V-0	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage 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> Fastening B Type Connectors <sup>3)</sup>	Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration Self-Tapping screw M2.5	
<b>MATERIALS</b>	Connector Flange - B-Type Flange Finish - B-Type	Diecast Zinc Alloy Nickel	
	Insulators	PA6.6+25% glass fibre reinforced, UL94V-0	
	Male Contact Material Male Contact Plating	Brass 0.05μm gold over 2μm nickel	
	Female Contact Material Female Contact Plating	Bronze 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

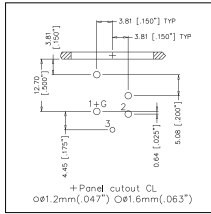
<sup>2</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

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

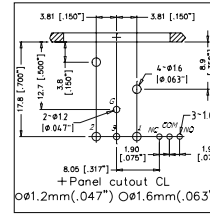
## AC SERIES A AND B TYPE CHASSIS PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



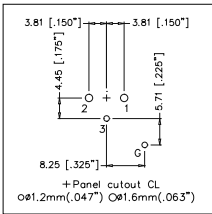
**AC3FAH2  
AC3FBH2**



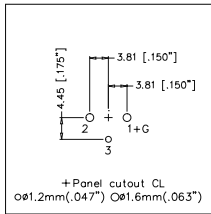
**AC3FAH1  
AC3FAH3  
AC3FBH1  
AC3FBH3  
AC3FAH  
AC3FBH**



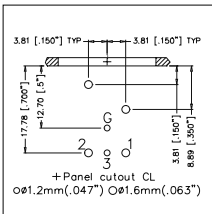
**AC3MAH4SWB**



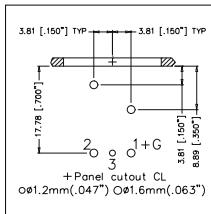
**AC3FAV2  
AC3FBV2**



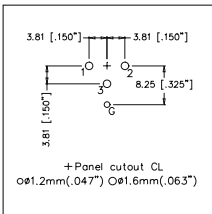
**AC3FAV1  
AC3FAV3  
AC3FBV1  
AC3FBV3  
AC3FAV  
AC3FBV**



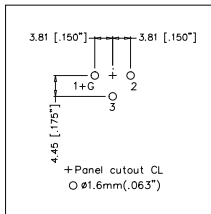
**AC3MAH2  
AC3MAH4  
AC3MBH2**



**AC3MAH1  
AC3MAH3  
AC3MBH1  
AC3MBH3  
AC3MAH  
AC3MBH  
AC3MBHL**

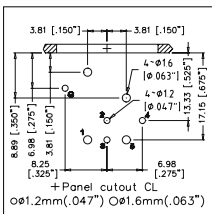


**AC3MAV2  
AC3MAV4  
AC3MBV2**

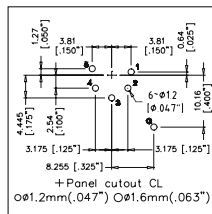


**AC3MAV1  
AC3MAV3  
AC3MBV1  
AC3MBV3  
AC3MAV  
AC3MBV**

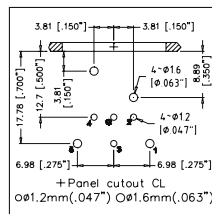
## AC SERIES 5 PIN PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



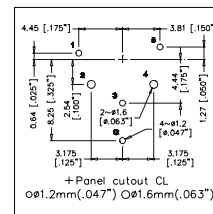
**AC5FAH**



**AC5FAV**



**AC5MAH**



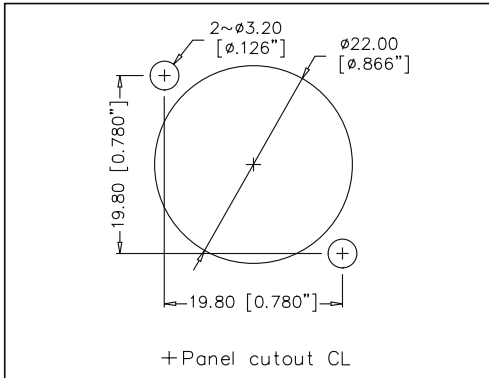
**AC5MAV**



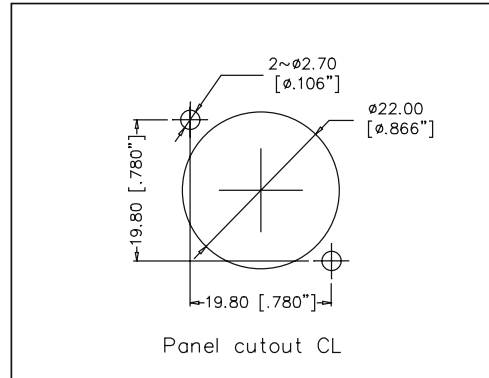
## AC SERIES A AND B TYPE CHASSIS

### PANEL CUTOUT DIMENSIONS - FRONT VIEW

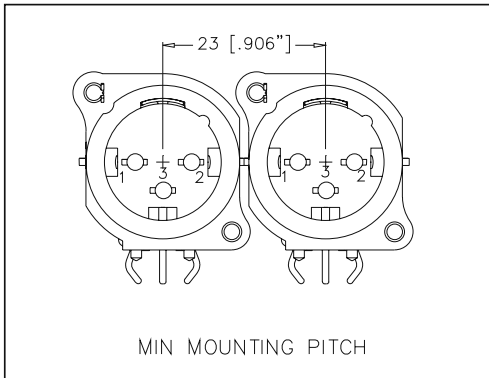
**A TYPE**



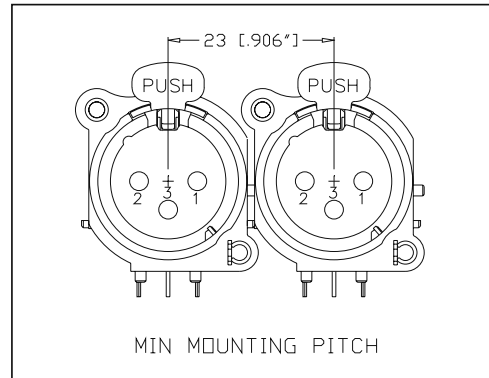
**B TYPE**



**A AND B  
TYPE MALE  
MOUNTING  
PITCH**



**A AND  
B TYPE  
FEMALE  
MOUNTING  
PITCH**



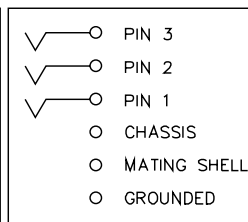
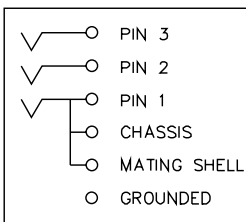
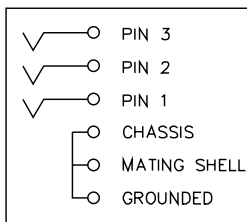
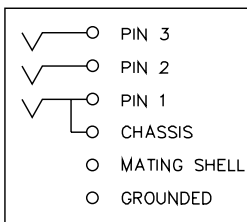
## AC3FA/BH/V SCHEMATIC CHART

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

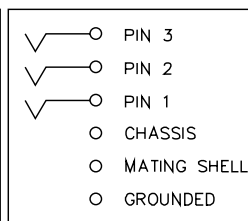
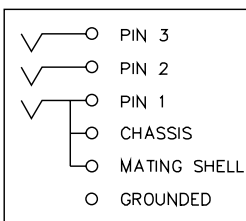
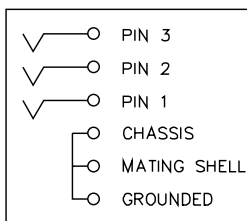
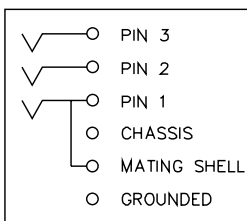


AC3MA/BH/V3-AU  
AC3MA/BH/VL3-AU

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





## 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.

### 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

- 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

# Amphenol

AC SERIES CHASSIS CONNECTORS

## C - TYPE LOW PROFILE DUAL JACK / XLR CONNECTORS


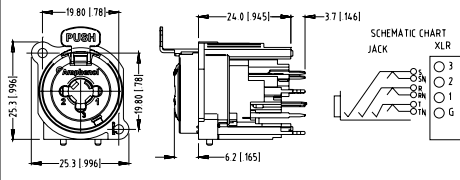

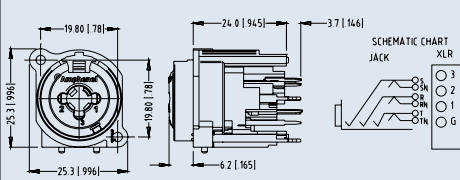

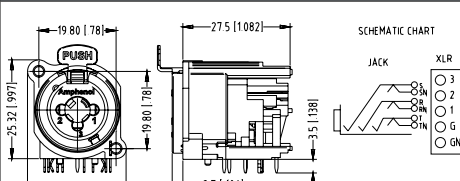

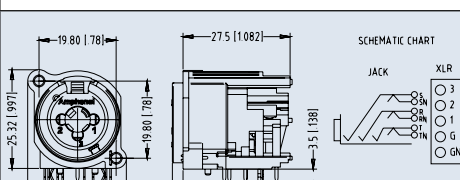

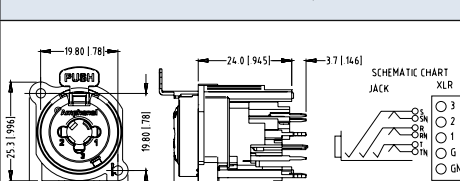

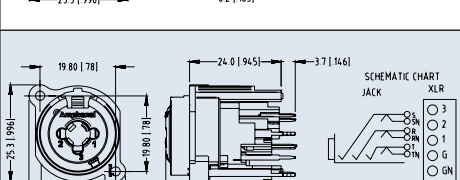


**Features:**

- 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).

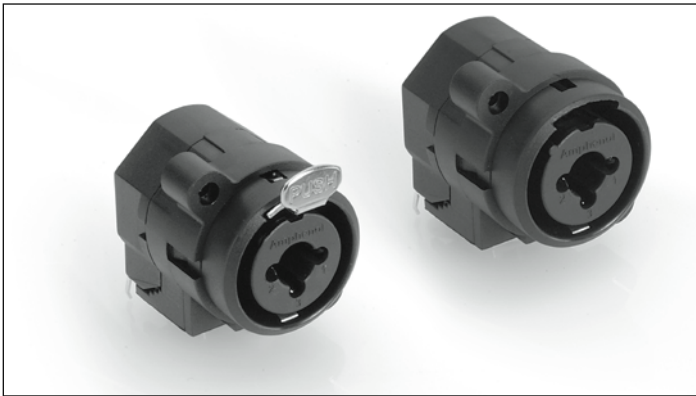
**Part Number Breakdown: Page 49**  
**Specifications: Page 51**  
**PCB Footprints: Page 50**  
**Recommended Fastener: Page 132**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		19.80   781 25.30   996 27.5   1082 19.80   781 3.5   138 2.7   106	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6AH BULK
		19.80   781 25.30   996 27.5   1082 19.80   781 3.5   138 2.7   106	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
		19.80   781 25.31   996 24.0   945 19.80   781 3.7   146 6.2   165	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6AV2 BULK
		19.80   781 25.31   996 24.0   945 19.80   781 3.7   146 6.2   165	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6AV2L BULK
		19.80   781 25.30   996 27.5   1082 19.80   781 3.5   138 2.7   106	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9AH BULK
		19.80   781 25.30   996 27.5   1082 19.80   781 3.5   138 2.7   106	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AHL BULK

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	ACJC9AV2 BULK
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AV2L BULK
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10AH BULK
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10AHL BULK
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10AV2 BULK
			Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10AV2L BULK



## C - TYPE DUAL JACK / XLR CONNECTORS



**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 49](#)


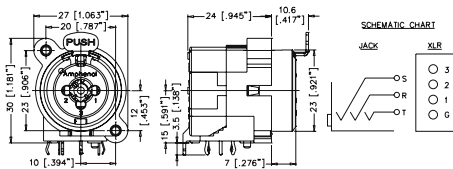

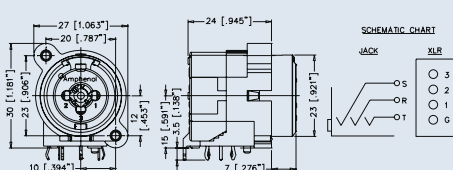

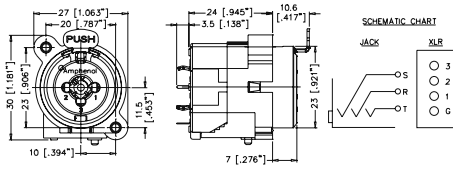

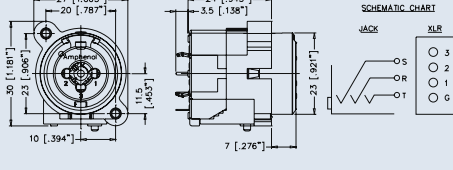

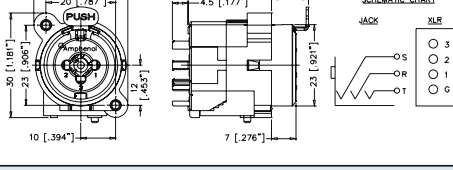

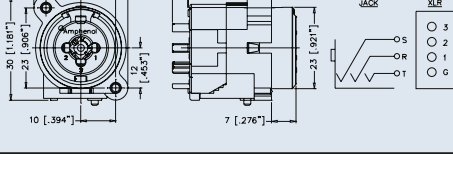
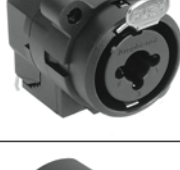
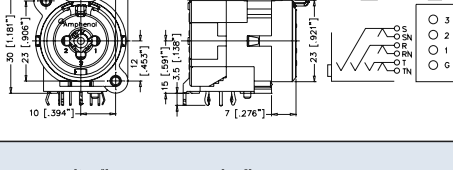

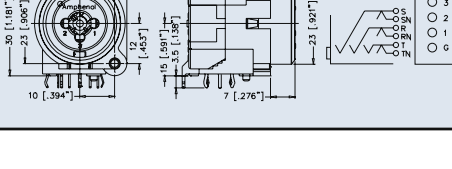
**Specifications:** [Page 51](#)

**PCB Footprints:** [Page 50](#)


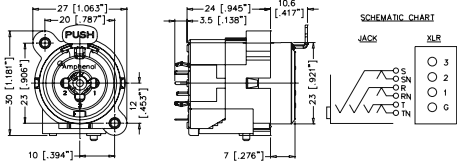

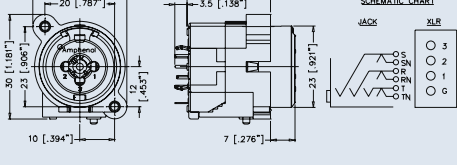

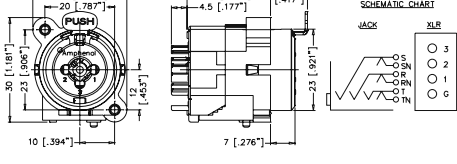

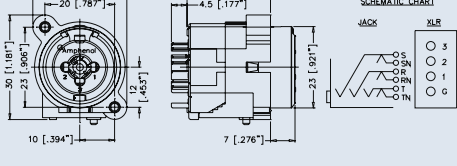

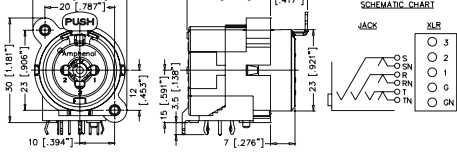

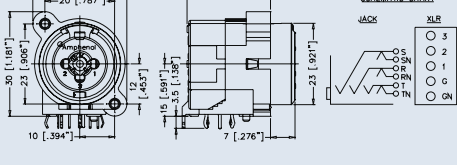

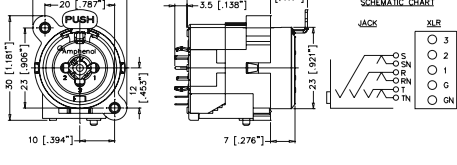

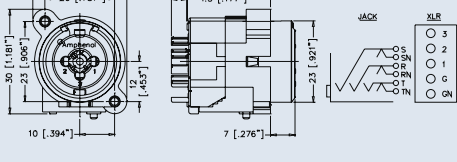
**Recommended Fastener:** [Page 132](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		27 [1.063"] 20 [0.787"] 30 [1.181"] 23 [0.906"] 10 [.394"] 12 [.472"] 24 [.945"] 10.6 [.417"] 7 [.276"] 23 [.921"] 15 [.591"] 3.5 [1.38"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC5H BULK
		27 [1.063"] 20 [0.787"] 30 [1.181"] 23 [0.906"] 10 [.394"] 12 [.472"] 24 [.945"] 10.6 [.417"] 7 [.276"] 23 [.921"] 15 [.591"] 3.5 [1.38"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5HL BULK
		27 [1.063"] 20 [0.787"] 30 [1.181"] 23 [0.906"] 10 [.394"] 12 [.472"] 24 [.945"] 10.6 [.417"] 7 [.276"] 23 [.921"] 15 [.591"] 3.5 [1.38"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC5V BULK
		27 [1.063"] 20 [0.787"] 30 [1.181"] 23 [0.906"] 10 [.394"] 11.5 [.453"] 24 [.945"] 3.5 [1.38"] 7 [.276"] 23 [.921"] 15 [.591"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5VL BULK
		27 [1.063"] 20 [0.787"] 30 [1.181"] 23 [0.906"] 10 [.394"] 12 [.472"] 24 [.945"] 10.6 [.417"] 7 [.276"] 23 [.921"] 15 [.591"] 4.5 [1.77"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC5S BULK
		27 [1.063"] 20 [0.787"] 30 [1.181"] 23 [0.906"] 10 [.394"] 12 [.472"] 24 [.945"] 10.6 [.417"] 7 [.276"] 23 [.921"] 15 [.591"] 4.5 [1.77"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC5SL BULK



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	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



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	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

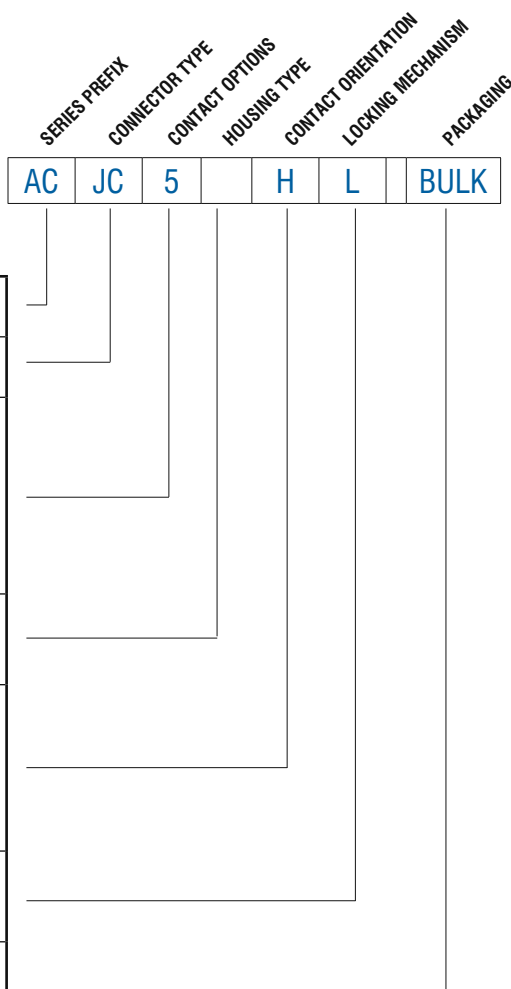
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	<p>Dimensions in mm (inches)</p> <p>SCHEMATIC CHART</p> <p>JACK: XLR</p> <p>3 2 1 G GN</p>	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Latching	ACJC10S BULK
	<p>Dimensions in mm (inches)</p> <p>SCHEMATIC CHART</p> <p>JACK: XLR</p> <p>3 2 1 G GN</p>	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

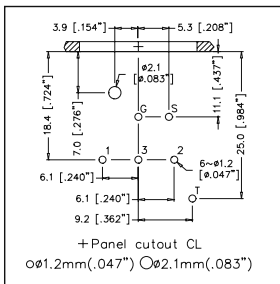
### AC SERIES THERMOPLASTIC C TYPE

E. G. **ACJC5HL BULK**  
**AC** (Series Prefix), **JC** Jack/Connector XLR, **5** Mono, **H**orizontal Printed Circuit Board, **L**atchless, **BULK** Packaged.

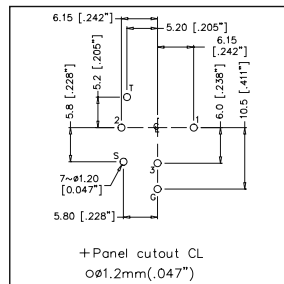
<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONNECTOR TYPE</b>	JC	=	Jack / Connector XLR
<b>CONTACT OPTIONS</b>	5	=	Mono, Non Switching, XLR Grounded
	6	=	Stereo, Non Switching, XLR Grounded
	9	=	Stereo, Switching, XLR Grounded
	10	=	Stereo, Switching, XLR with Ground Switch
<b>HOUSING TYPE</b>	Blank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



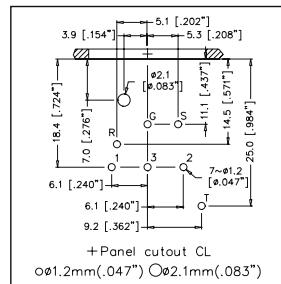
## AC SERIES C TYPE SERIES



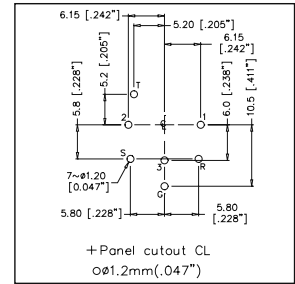
**ACJCSH & ACJCSHL**



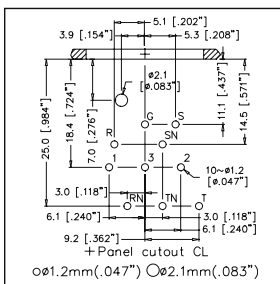
**ACJC5V & ACJC5VL**



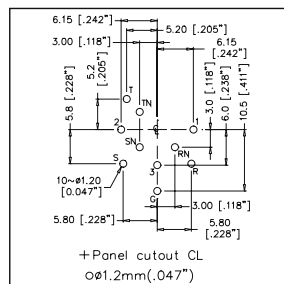
**ACJC6H & ACJC6HL**



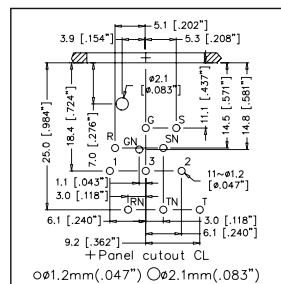
**ACJC6V & ACJC6VL**



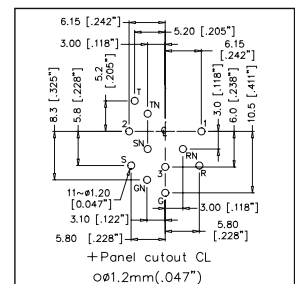
**ACJC9H & ACJC9HL**



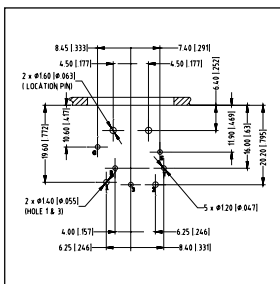
**ACJC9V & ACJC9VL**



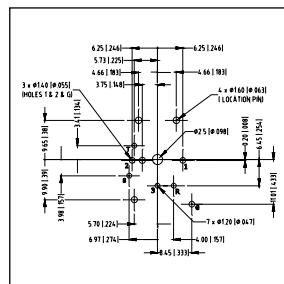
**ACJC10H & ACJC10HL**



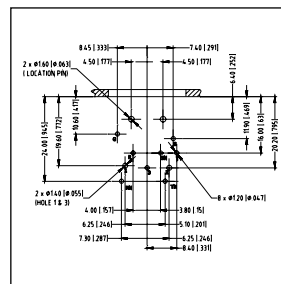
**ACJC10V & ACJC10VL**



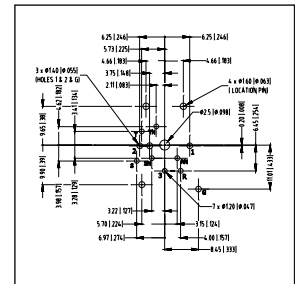
**ACJC6AH & ACJC6AHL**



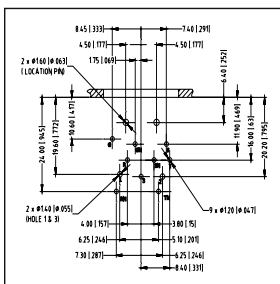
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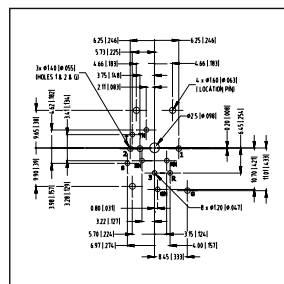
**ACJC9AH & ACJC9AHL**



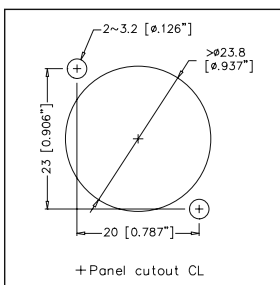
**ACJC9AV2 & ACJC9AV2L**



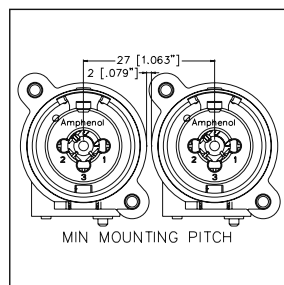
**ACJC10AH & ACJC10AHL**



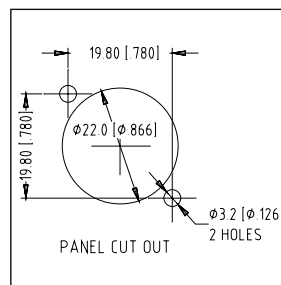
**ACJC10AV2 & ACJC10AV2L**



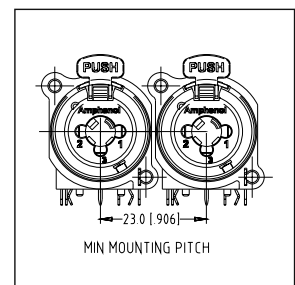
**C TYPE PANEL CUTOUT**



**C TYPE MOUNTING PITCH**



**C TYPE LOW PROFILE PANEL CUTOUT**



**C TYPE LOW PROFILE MOUNTING PITCH**

## STANDARD DATA C TYPE CHASSIS RECEPTACLES

		VALUE	
		LOW PROFILE TYPE	STANDARD C TYPE
<b>GENERAL CHARACTERISTICS</b>	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	
<b>ELECTRICAL CHARACTERISTICS</b>	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	
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40	
	Operating Temperature	-25 °C to +70 °C	
<b>MECHANICAL CHARACTERISTICS</b>	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	
<b>MATERIALS</b>	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 132

Rev 6 - 03/2013

## **SP/HP/EP/ AP SERIES HIGH POWER / 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

### **HP Series**

The HP Series connectors are suitable for power applications where a latch locking connector is required. They are rated at 25A / 250Vac.

#### **Features**

- Quick release, vibration resistant latch lock.
- Power connectors colour coded and keyed for power-in (Blue) and power-out (Grey)
- UL, cUL recognized components (File no. E339831)
- Precision machined contacts

### **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.



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 57**  
**PCB Footprints: Page 59**

**Specifications: Page 61**  
**Assembly Instructions: 60**

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




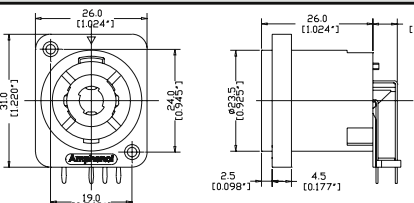

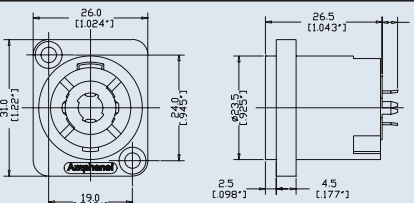
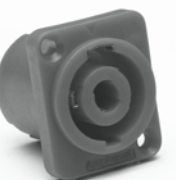
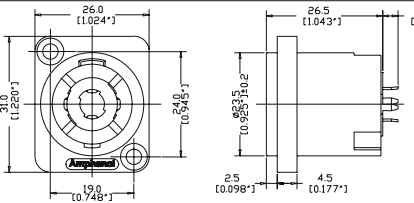

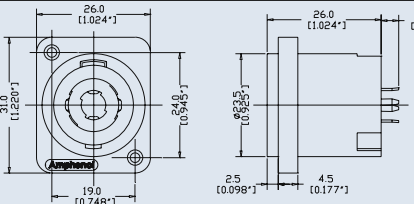

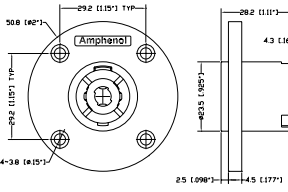
PRODUCT - FIGURE	DRAWING	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
	<p>87 [3.43"]</p> <p>28 [1.10"]</p>	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve	Screw	Black	SP-4-F
			Solder	Black	SP-4-FS
	<p>111 [4.36"]</p> <p>28 [1.09"]</p>	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland	Screw	Black	SP-4-FG
			Solder	Black	SP-4-FSG
	<p>179 [7.06"]</p> <p>28 [1.10"]</p>	4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-4-FL
			Solder	Black	SP-4-FSL
	<p>87 [3.43"]</p> <p>28 [1.10"]</p>	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
	<p>111 [4.36"]</p> <p>28 [1.09"]</p>	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
	<p>179 [7.06"]</p> <p>28 [1.10"]</p>	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





PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 28.2 (1.110") 4.3 (0.169") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 26.0 (1.024") 5.7 (0.224") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 26.5 (1.043") 3.5 (0.138") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 28.2 (1.110") 4.3 (0.169") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 28.2 (1.110") 4.3 (0.169") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 28.2 (1.110") 4.3 (0.169") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 26.0 (1.024") 5.7 (0.224") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
		26.0 (1.024") 31.0 (1.220") 24.0 (0.945") 19.0 (0.748") 26.0 (1.024") 5.7 (0.224") ø23.5 (0.925") 2.5 (0.098") 4.5 (0.177")	4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8



PRODUCT - FIGURE		DESCRIPTION	VARIATIONS	PART NUMBER
		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

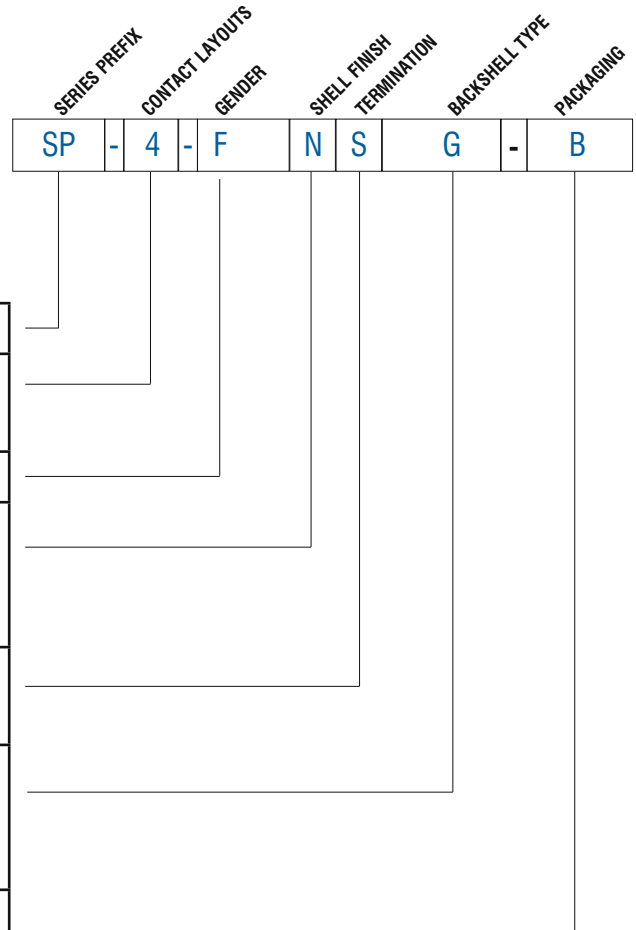


## PART NUMBER BREAKDOWN

### 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)

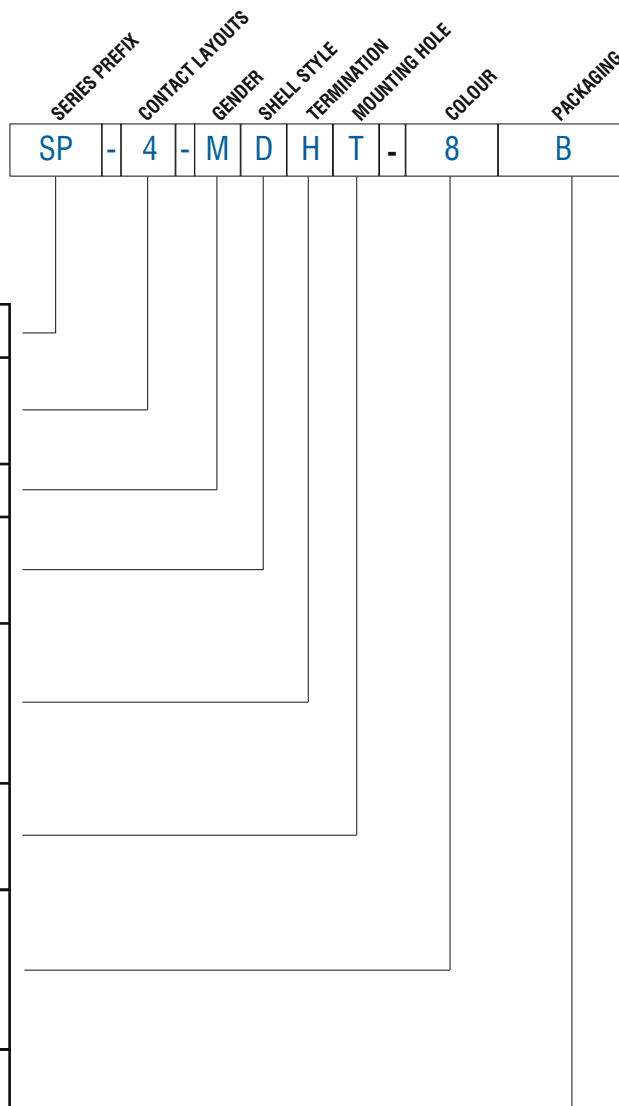
<b>SERIES PREFIX</b>	SP = Series Prefix
<b>CONTACT LAYOUT</b>	2 = 2 Contacts 4 = 4 Contacts
<b>GENDER</b>	F = Cable Connector
<b>SHELL FINISH</b>	Blank = Thermoplastic - Black N = Metal - Nickel Finish B = Metal - Black Finish
<b>TERMINATION</b>	Blank = Screw Terminals S = Solder Terminals
<b>BACKSHELL TYPE</b>	Blank = Standard G = PG Gland L = PG Gland Strain Relief
<b>PACKAGING</b>	Blank = Individual Bags B = Bulk Packed



## 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 **T**apping mounting holes - **8** (Grey), **B**ulk Packaged.

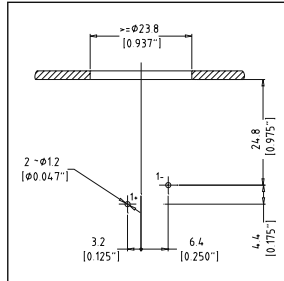


<b>SERIES PREFIX</b>	SP	=	Series Prefix
<b>CONTACT LAYOUT</b>	2	=	2 Contacts
	4	=	4 Contacts
<b>GENDER</b>	M	=	Chassis Connector
<b>SHELL STYLE</b>	D	=	Standard 'D' Type flange
	C	=	EP Series Circular flange
<b>TERMINATION</b>	Blank	=	Solder tabs - 3/16" terminals
	V	=	Vertical Printed Circuit Board
	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

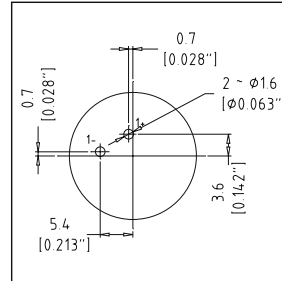


## SP SERIES

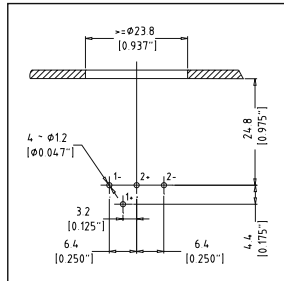
**SP-2-MDH**



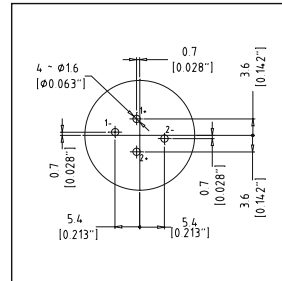
**SP-2-MDV**



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

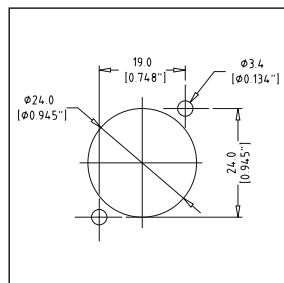


**SP-4-MDV  
SP-4-MDV-2  
SP-4-MDVT-8**

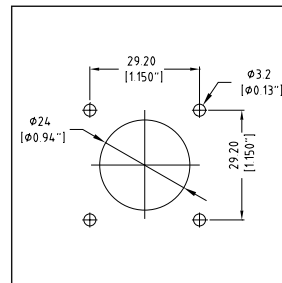


## SP SERIES PANEL CUTOUT

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

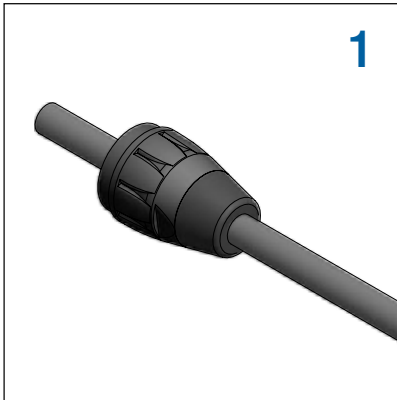


**SP-4-MC**



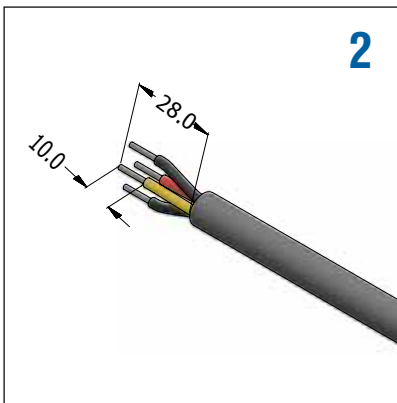
## PI 1070 ASSEMBLY INSTRUCTIONS

SP SERIES CABLE CONNECTOR



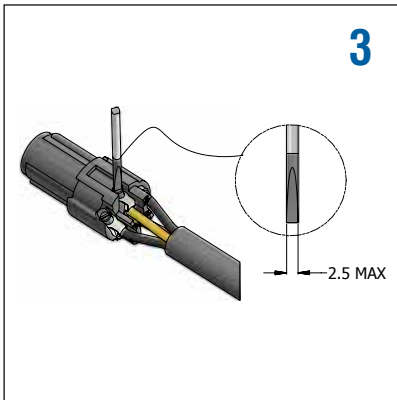
1

Slide the nut onto the cable



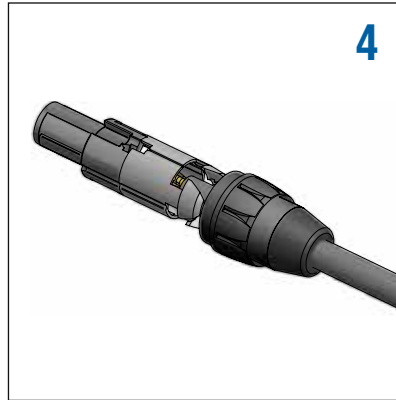
2

Strip the cable and twist the conductors.



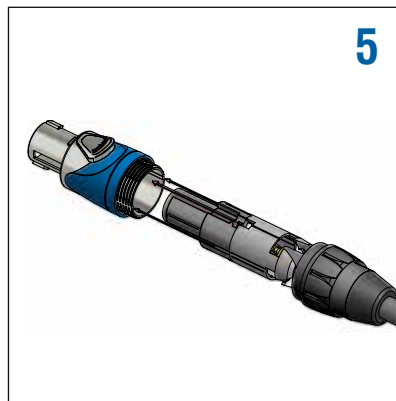
3

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.



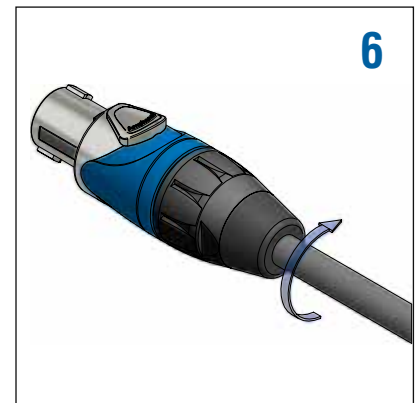
4

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



5

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



6

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	30A
	Typical Contact Resistance	≤3mΩ
	Insulation Resistance (initial)	≥2GΩ
	Insulation Resistance (after damp heat test)	≥1GΩ
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP54
	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")	4 pole 9-14mm (0.35" - 0.55")
	6-12mm (0.23" - 0.47")	8-14mm (0.31" - 0.55")
	9-14mm (0.35" - 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)
<b>MATERIALS</b>	Connector Shell / Finish - Cable Plug Thermoplastic - Cable Plug Metal	PA66 GF30 / Black Diecast Zinc Alloy / Nickel or Black
	Insulators - Chassis - Cable Plugs	PA66 GF20 PA66 GF30
	Cable Boot / Backshell	Santoprene / PA6 GF 15
	Cable Clamp (Chuck)	P.O.M
	Cable Clamp (PG)	Polyamide / EPDM
	Sleeve	PBT
	Contact Chassis - Material / Plating Contact Cable Plug - Material / Plating	Phosphor Bronze / Silver Brass / Silver



Rev 5 - 03/2013

\*\*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

# Amphenol

EP / AP / SP / HP SERIES

## HP POWER CONNECTORS



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)



**Specifications: Page 63**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
			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	1500V
	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	IP54
	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)
	<b>MATERIALS</b>	Connector Shell / Finish
	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 3 - 05/2015

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




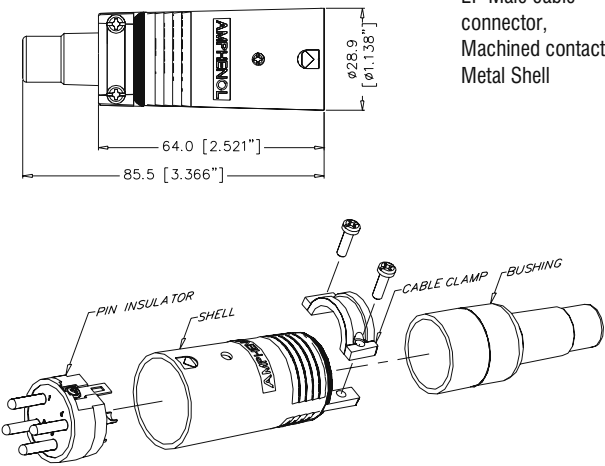

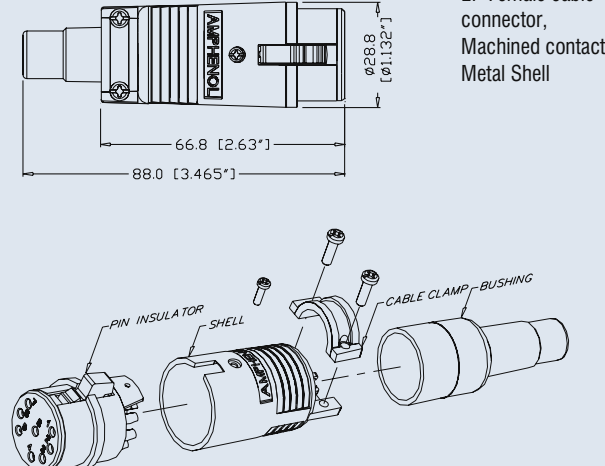
The EP Series has set the standard in high performance speaker connectors. Apart from its durability and strength, it offers consistent superior power handling capabilities.

**Features:**


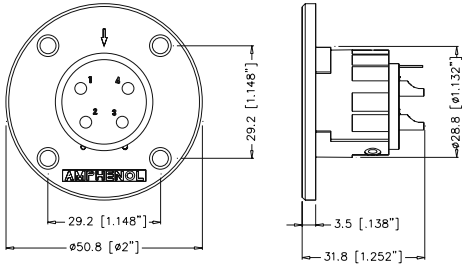

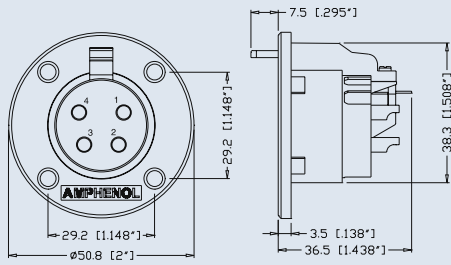
- Solder Bucket connections.
- Precision machined contacts.
- Diecast Metal Housings
- High current contacts
- Male and female cable and chassis connectors available.

**Options:** Black Finish Shell  
**Panel Cutouts:** Page 68

**Specifications:** Page 67

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
 <p><b>ISO ASSEMBLY OF EP MALE</b></p>	<p>Dimensions in mm (inches)</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			
 <p><b>ISO ASSEMBLY OF EP FEMALE</b></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			



PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	<p style="text-align: center;">Dimensions in mm (inches)</p> 	<p>EP Male chassis mount, Round Flange, Machined contacts, Metal Shell</p>	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
		<p>EP Female chassis mount, Round Flange, Machined contacts, Metal Shell</p>	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





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.

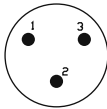
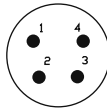
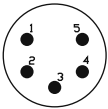
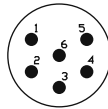
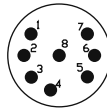
**Specifications: Page 67**

**Panel Cutouts: Page 68**

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"] 432.4 [16.276"] 29.2 [1.15"] 450.8 [17.75"] 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"] 432.4 [16.276"] 29.2 [1.148"] 450.8 [17.75"] 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"] 432.4 [16.276"] 29.2 [1.148"] 50.0 [1.969"] 40.0 [1.575"] 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"] 432.4 [16.276"] 29.2 [1.148"] 50.0 [1.969"] 40.0 [1.575"] 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				
<b>GENERAL CHARACTERISTICS</b>	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					
<b>ELECTRICAL CHARACTERISTICS</b>	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				
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40				
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)				
<b>MECHANICAL CHARACTERISTICS</b>	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.



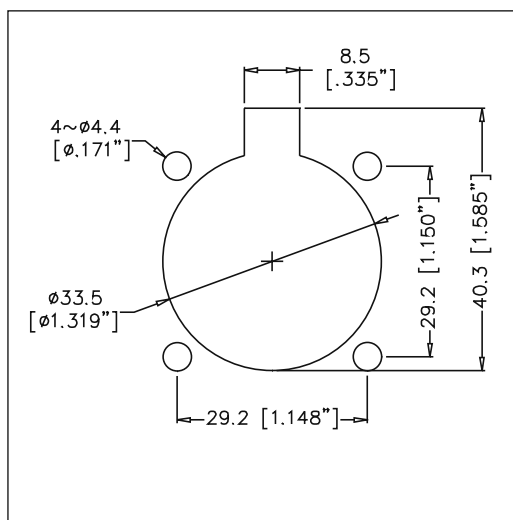
## STANDARD DATA EP/AP (CONT'D)

MATERIALS		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

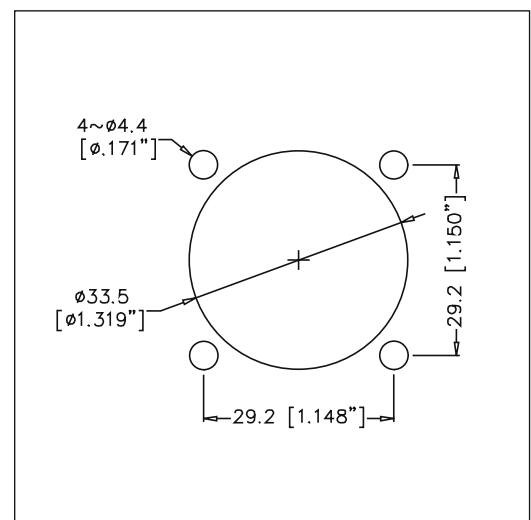
Rev 3 - 03/2013

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

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22





## 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 71

Part Number Breakdown : Page 71

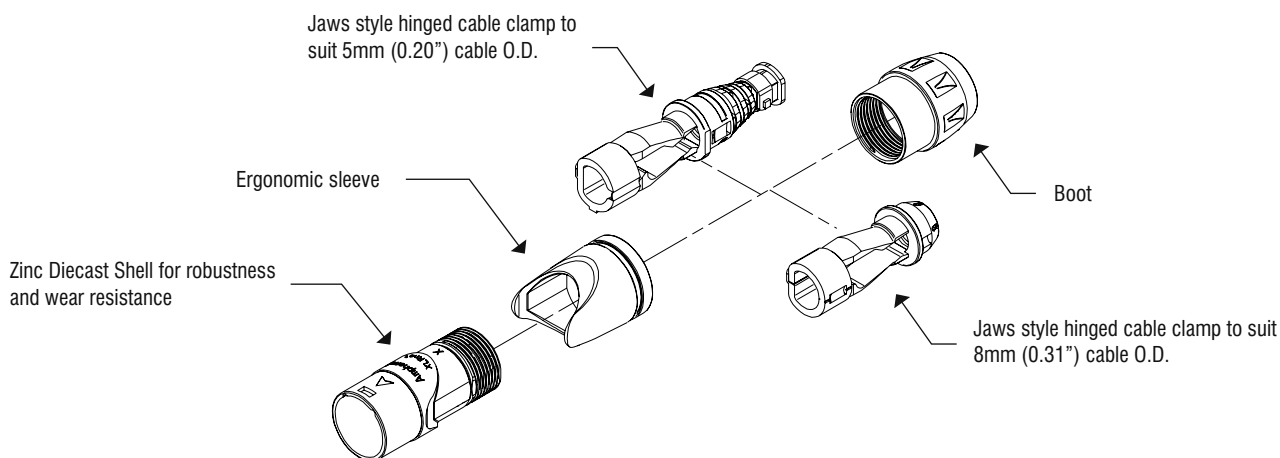
Assembly Instructions: Page 72

**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"] 21 [0.81"]	XLRnet, XLR cable plug housing to suit pre-assembled RJ45 cables, Nickel Finish	Standard Bulk Pack	RJX8M RJX8M BULK
		84 [3.31"] 21 [0.81"]	XLRnet, XLR cable plug housing to suit pre-assembled RJ45 cables, Black Finish	Standard Bulk Pack	RJX8MB RJX8MB BULK



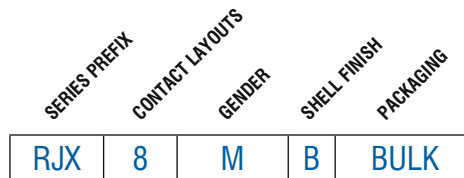
## ISO VIEW OF RJX8M





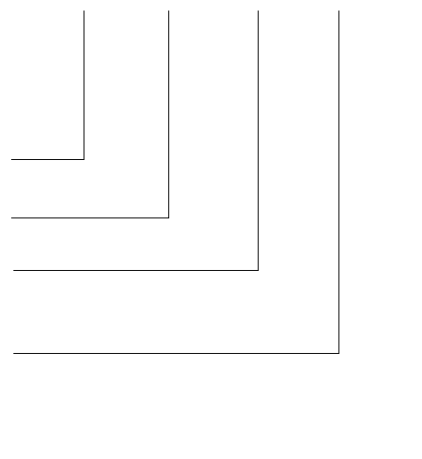
## PART NUMBER BREAKDOWN

### XLRnet SERIES



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

<b>SERIES PREFIX</b>	RJX	=	Series Prefix
<b>CONTACT LAYOUT</b>	8	=	RJ45 Cable Housing
<b>GENDER</b>	M	=	Male Cable Plug
<b>SHELL FINISH</b>	Blank	=	Nickel Plated Finish
	B	=	Metal - Black Finish
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed



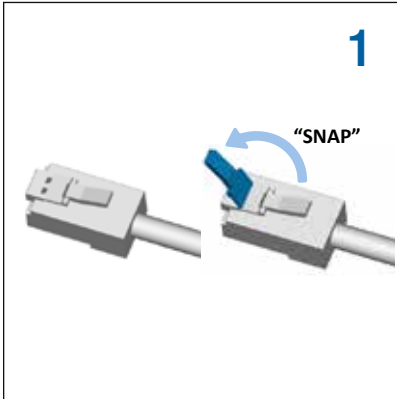
## STANDARD DATA XLRnet SERIES



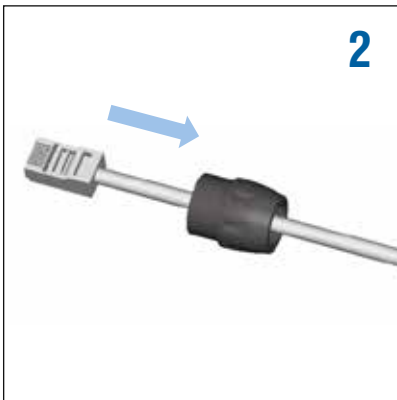
		VALUE
<b>GENERAL CHARACTERISTICS</b>	Termination	Preassembled RJ45 Cable (Not supplied)
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal force	≥10N - ≤20N
	Weight <sup>2)</sup>	26g (0.057lb)
	Cable O.D. range	5 or 8mm (0.20" or 0.31")
	Mechanical Operations	1000 mating cycles
<b>MATERIALS</b>	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

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

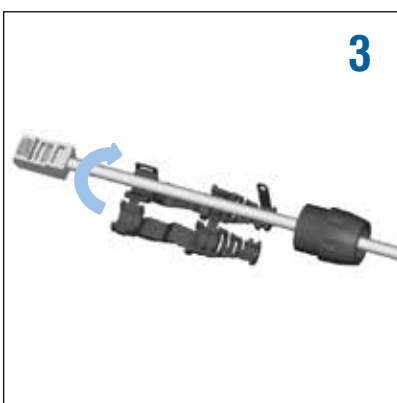
## XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



△ 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.



Slide the nut (backshell) onto the cable.



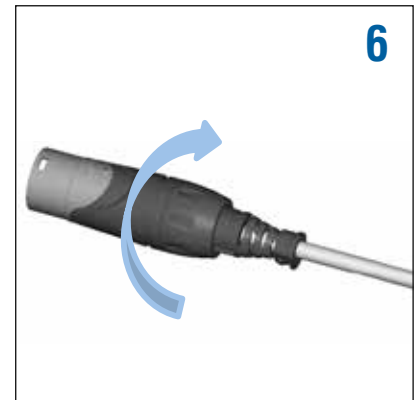
Install the cable clamp-boot.



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



Push clamp-boot & cable together into the shell



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



# Amphenol

## XLrnet CHASSIS MOUNT CONNECTORS



### 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 76**

**Specifications: Page 80**

**PCB Footprints: PagePage 79**


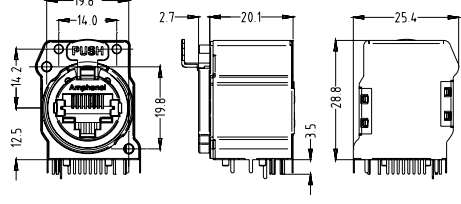

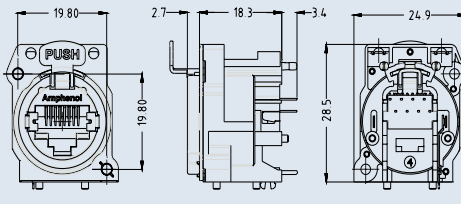

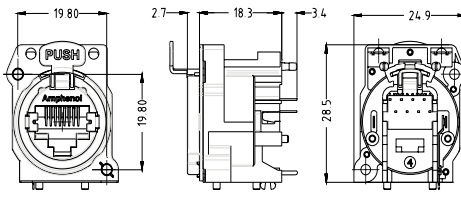

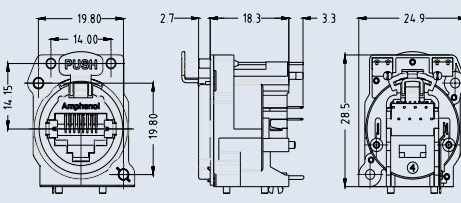

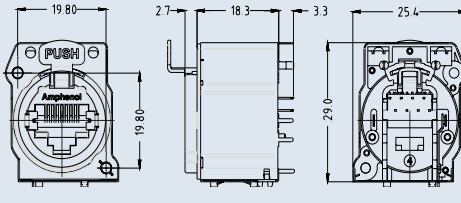
**Recommended Fastener: Page 133**

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


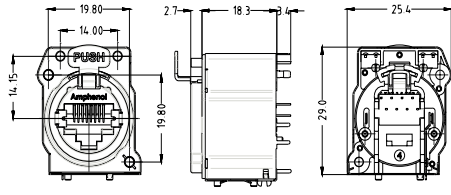
\*Note: LED colours are denoted left to right from the panel side front view. Refer page 79  
R = Red, G = Green, Y = Yellow, U = Blue



# Amphenol

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	RJX8FB5HRGEB
					R Y	RJX8FB5HRYEB
					R R	RJX8FB5HRRREB
					G R	RJX8FB5HGREB
					G Y	RJX8FB5HGYEB
					U U	RJX8FB5HUUEB
				CAT6	R G	RJX8FB6HRGEB
					R Y	RJX8FB6HRYEB
					R R	RJX8FB6HRRREB
					G R	RJX8FB6HGREB
					G Y	RJX8FB6HGYEB
					U U	RJX8FB6HUUEB
			XLRnet chassis, A type, Vertical PCB	Class D	- -	RJX8FA3VB
				CAT5E		RJX8FA5VB
				CAT6		RJX8FA6VB
			XLRnet chassis, B Type, Vertical PCB	Class D	- -	RJX8FB3VB
				CAT5E		RJX8FB5VB
				CAT6		RJX8FB6VB
			XLRnet chassis, B type, LEDs, Vertical PCB, Bulk packed	CAT5E	R G	RJX8FB5VRGB
					R Y	RJX8FB5VRYB
					R R	RJX8FB5VRRB
					G R	RJX8FB5VGRB
					G Y	RJX8FB5VGYB
					U U	RJX8FB5VUUB
				CAT6	R G	RJX8FB6VRGB
					R Y	RJX8FB6VRYB
					R R	RJX8FB6VRRB
					G R	RJX8FB6VGRB
					G Y	RJX8FB6VGYB
					U U	RJX8FB6VUUB
			XLRnet chassis, B type, Shielded Hood, Vertical PCB, Bulk packed	Class D	- -	RJX8FB3VEB
				CAT5E		RJX8FB5VEB
				CAT6		RJX8FB6VEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 79  
 R = Red, G = Green, Y = Yellow, U = Blue

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	TYPE	LED* LHS/RHS		PART NUMBER
		XLRnet chassis, B type, Shielded Hood, LEDs, Vertical PCB, Bulk packed	CAT5E	R	G	RJX8FB5VRGEB
				R	Y	RJX8FB5VRYEB
				R	R	RJX8FB5VRREB
				G	R	RJX8FB5VGRGB
				G	Y	RJX8FB5VGYEB
				U	U	RJX8FB5VUUEB
			CAT6	R	G	RJX8FB6VRGEB
				R	Y	RJX8FB6VRYEB
				R	R	RJX8FB6VRREB
				G	R	RJX8FB6VGRGB
				G	Y	RJX8FB6VGYEB
				U	U	RJX8FB6VUUEB

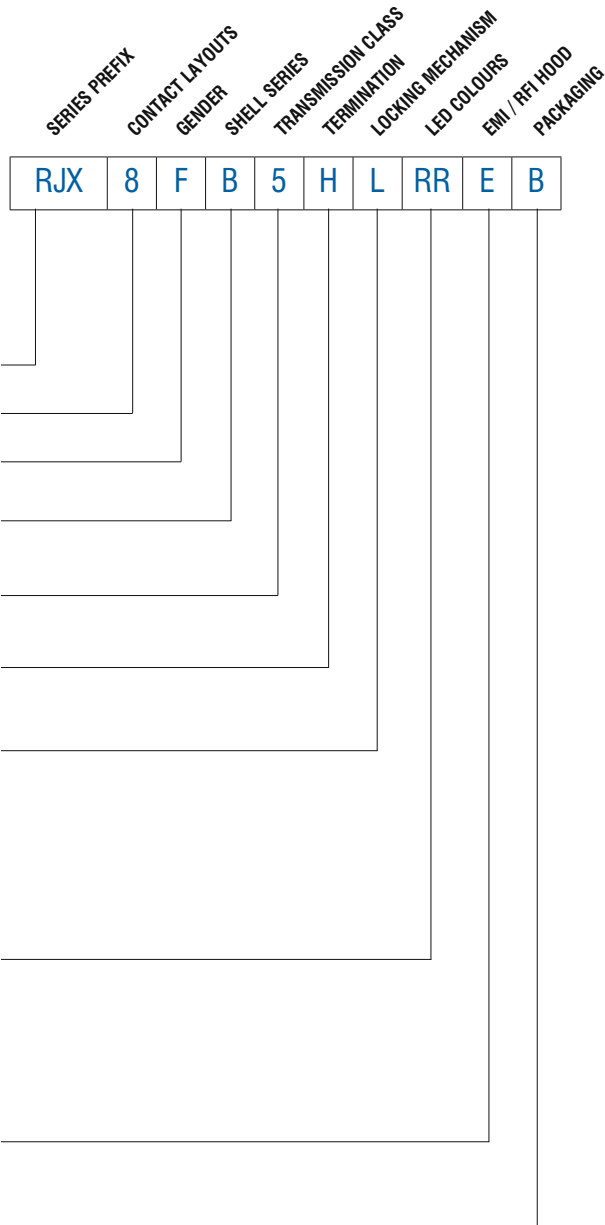
\*Note: LED colours are denoted left to right from the panel side front view. Refer page 79  
R = Red, G = Green, Y = Yellow, U = Blue



## PART NUMBER BREAKDOWN

XLRnet A AND B TYPE Printed Circuit Board Connectors

E. G. **RJX8FB5HLRREB**  
**RJX** (Series Prefix), **8** (Contacts), **F**emale **B** type, **5** Cat5E **H**orizontal, Latchless,  
**Red** - Red LEDs, **EMI** / RFI Hood, **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>	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

\*Note: LED colours are denoted left to right from the panel side front view.  
Refer Page 79



# Amphenol

XLRnet CHASSIS CONNECTORS

## D TYPE FLANGE



### 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 78**

**Specifications: Page 80**

**PCB Footprints: Page 79**

**Recommended Fastener: Page 133**

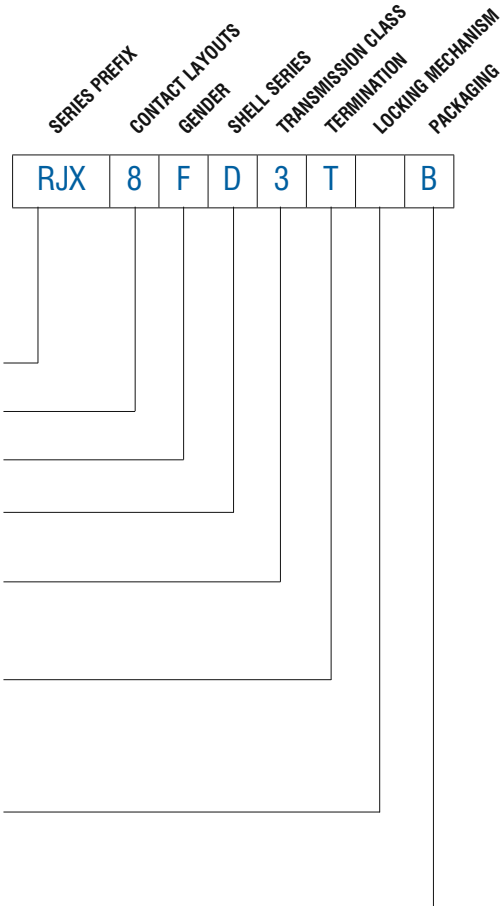
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
			XLRnet chassis, D type, Feedthrough, Nickel Finish	CAT5E	RJX8FD5T
				CAT6	RJX8FD6T
			XLRnet chassis, D type, IDC Terminals, 110 type, Nickel Finish	CAT5E	RJX8FD5110
				CAT6	RJX8FD6110
			XLRnet chassis, D type, IDC Terminals, Nickel Finish	CAT5E	RJX8FD5I
				CAT6	RJX8FD6I
			XLRnet chassis, D type, Horizontal PCB, Nickel Finish	Class D	RJX8FD3HB
				CAT5E	RJX8FD5HB
				CAT6	RJX8FD6HB
			XLRnet chassis, D type, Vertical PCB, Nickel Finish	Class D	RJX8FD3VB
				CAT5E	RJX8FD5VB
				CAT6	RJX8FD6VB



## 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

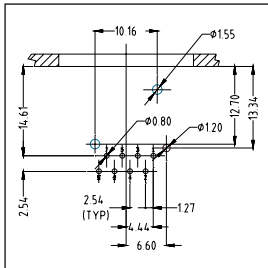
\*Note: LED colours are denoted left to right from the panel side front view.  
Refer Page 79



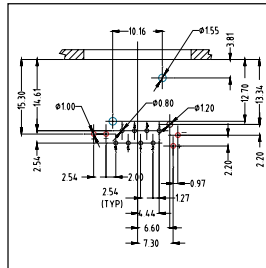


## XLRNET A, B AND D TYPE SERIES

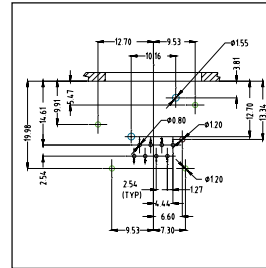
\* Applicable to 3 (Class D), 5 (CAT5E) and 6 (CAT6), where available



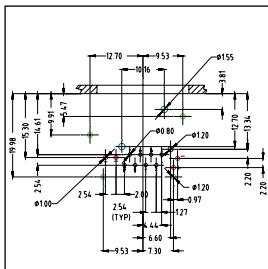
RJX8FA\*H  
RJX8FA\*HB



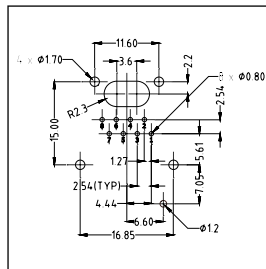
RJX8FB\*HRGB  
RJX8FB\*HRYB  
RJX8FB\*HRRB  
RJX8FB\*HGRB  
RJX8FB\*HGYB  
RJX8FB\*HGGB



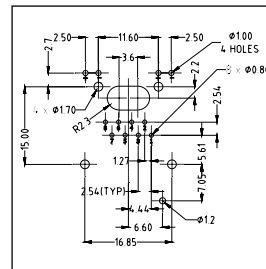
RJX8FB\*HEB



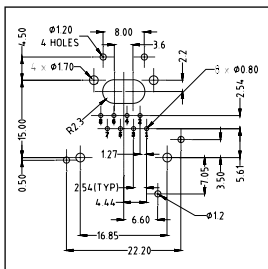
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RJX8FB\*HRYEB  
RJX8FB\*HRRB  
RJX8FB\*HGREB  
RJX8FB\*HGYEB  
RJX8FB\*HGGB



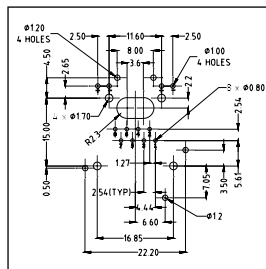
RJX8FA\*VB  
RJX8FB\*VB



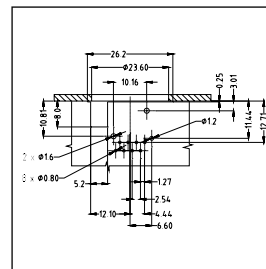
RJX8FB\*VRGB  
RJX8FB\*VRYB  
RJX8FB\*VRRB  
RJX8FB\*VGRB  
RJX8FB\*VGYB  
RJX8FB\*VUUB



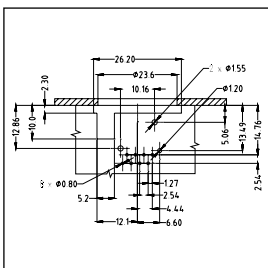
RJX8FB\*VEB



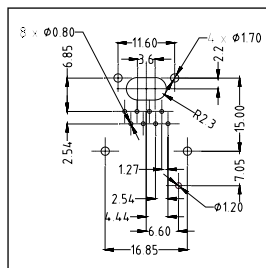
RJX8FB\*VRGEB  
RJX8FB\*VRYEB  
RJX8FB\*VRRB  
RJX8FB\*VGREB  
RJX8FB\*VGYEB  
RJX8FB\*VUUEB



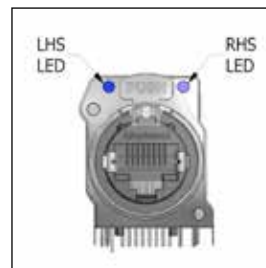
RJX8FD\*HB  
(Front Mounting)



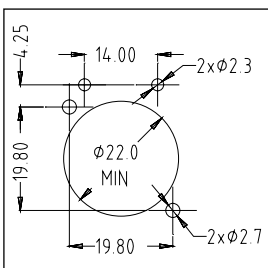
RJX8FD\*HB  
(Rear Mounting)



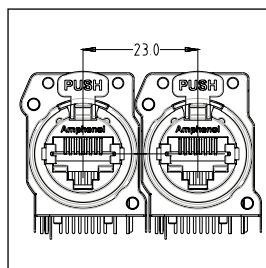
RJX8FD\*VB



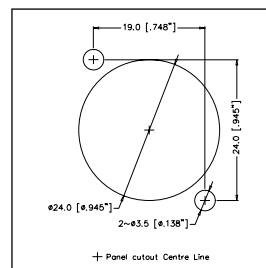
LED Arrangement  
(Front view)



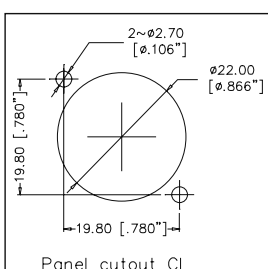
PANEL CUTOUT  
A and B type  
with LED's



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		

Rev 3 - 05/2015

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



## BNC 75 RF CONNECTORS

Amphenol offers a complete range of high-performance BNC plugs for use in digital/HD video applications. Amphenol's True 75 Ohm BNC connectors perform well up to and beyond 3GHz and are designed to terminate to a variety of popular coaxial cable types. We can also offer custom connectors to suit non-standard cables on request. Plugs feature a precision machined brass body and coupling nut plated with cost effective nickel plating.

### Applications

- Broadcast
- High bandwidth video equipment
- D1/D2 serial digital
- Graphic work stations
- Telephony / Workstations

### Options

- Crimp Plugs
- Jack to Jack adapters
- Patch Panels
- 'D' Shell Jacks
- Plug to Plug U-Link connectors
- Crimp Tools

### Ordering Codes

We have listed the more common ordering codes in each section. Amphenol offer an extensive range of RF connectors for most applications.

Please visit [www.amphenolconnex.com](http://www.amphenolconnex.com) for further information. Please contact us if you need any further assistance.

### Simple steps to guide you in using this catalogue


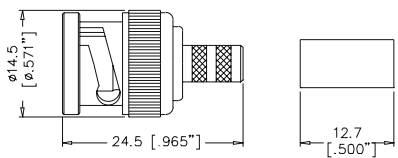
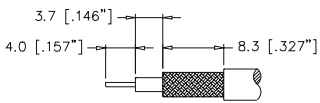

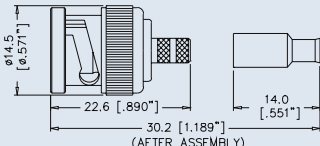
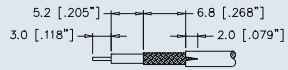
- 1) Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description 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.




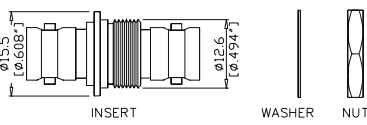

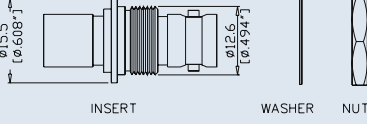

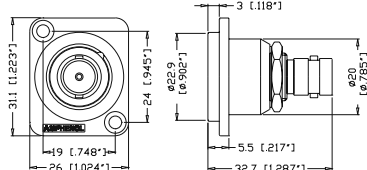

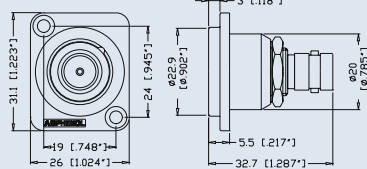

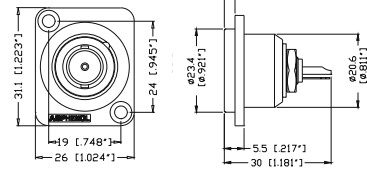

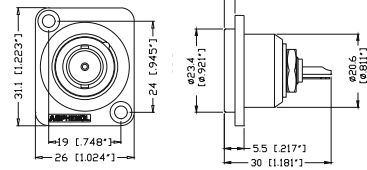

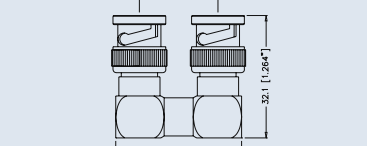

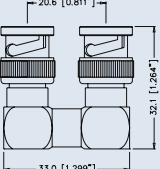


Amphenol manufactures a large range of connectors to suit cables other than those listed below, for example Belden YR23769 and 46899, please contact us to discuss your specific requirements.


The complete Amphenol Connex catalogue featuring a wide range of RF connector products is available on request. Item code CAT-CONNEX-01.

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER	
   RECOMMENDED CABLE STRIPPING DIMS.	Straight Crimp Plug - Captive Contact- Standard Cable	59/ 62/ 140/ 210	Delrin	A	112119	
			Teflon	E	112952*	
			59/ U-20AWG	Delrin	A	112507
				Teflon	E	112956*
			11/ U-14AWG/ B8213/ B9292/ B7731/ B1859A	Teflon	D	112606
			6/ 143/ 212	Delrin	E	112508
			B1694A/ B9248	Delrin	E	112565
				Teflon	E	112957*
			6 PLENUM/ B1695A	Delrin	E	112519
			B8281/ B9231/ B9141	Delrin	E	112509
				Teflon	E	112953*
			B1505A	Teflon	E	112951*
		B735A1	Teflon	F	112950*	
  (AFTER ASSEMBLY)  RECOMMENDED CABLE STRIPPING DIMS.	Straight Crimp Plug-Captive Contact-Miniature Cable (Remark: With Teflon sleeve / Hex crimp size .178")	179/ 187/ B9221	Delrin	B	112133	
			180/ 195/ 122/ B8218/ B1865A/ B1855	Delrin	B	112521
				Teflon	F	112955*

Note: \*True 75 ohm.

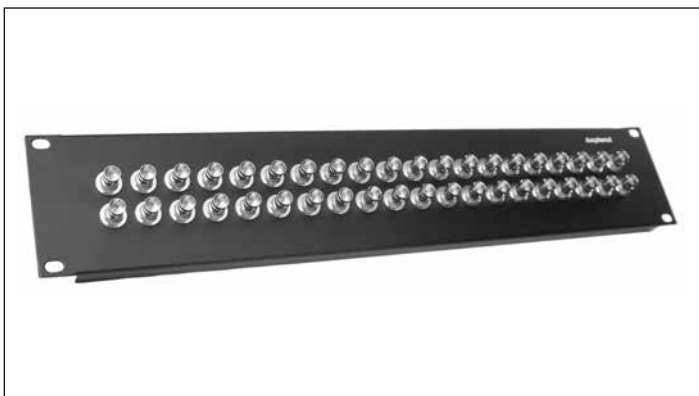
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION & CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER
		<b>Bulkhead Adapter -Isolated</b> Jack to Jack - Straight Bayonet Lock to Bayonet Lock	Teflon	N/A	AC-BNC-JJA-75T*
		<b>Bulkhead Adapter -Isolated</b> Jack to Jack - Straight Push on to Bayonet Lock	Teflon	N/A	AC-BNC-PJA-75T*
		<b>Bulkhead Adapter -Isolated, 'D' Shell Housing</b> Jack to Jack, Bayonet Lock to Bayonet Lock, Nickel Finish	Teflon	N/A	AC-BNC-JJ-75*
		<b>Bulkhead Adapter -Isolated, 'D' Shell Housing</b> Jack to Jack, Push on to Bayonet Lock, Nickel Finish	Teflon	N/A	AC-BNC-PJ-75*
		<b>Bulkhead Adapter -Isolated, 'D' Shell Housing</b> Jack to Jack, Push on to Bayonet Lock, Black Finish	Teflon	N/A	AC-BNC-PJ-75B*
		<b>Bulkhead Receptacle -Isolated, 'D' Shell Housing</b> Jack to Solder Bucket with Ground Tag, Nickel Finish	Nylon	N/A	AC-BNC-JS-75
		<b>Bulkhead Receptacle -Isolated, 'D' Shell Housing</b> Jack to Solder Bucket with Ground Tag, Black Finish	Nylon	N/A	AC-BNC-JS-75B
		<b>U - Link</b> Centre to Centre - 20.6 mm  <b>Note:</b> Custom Sizes available please contact factory.	Teflon	N/A	BNC-U-LINK 75*1

## BNC 75 RF ACCESSORIES AND TOOLING

PRODUCT - FIGURE	DESCRIPTION	DIE CAVITIES	CABLE TYPE RG-/U	CONNECTOR GUIDE	PART NUMBER
	Crimp tool with Die Set	.255 / .213 / .068	59 / 62	A	47-10070
		.178 / .128 / .068	179 / 187 / 180 / 195	B	47-10150
		.429 / .100 / .080	11	D	47-10090
		.324/.255/.068/.042	6 / 59 / B8281	E	47-10110
		.213/.178 / .068/.042	AT&T 735A, B1855A, B8218	F	47-10120

Note: \*True 75 ohm.





**Features:**

- Amphenol True 75 Ohm Connectors
- Bayonet lock or Push-on types
- Supplied with adhesive strip ID labels

**Options:**

- 1RU, 20 BNC connectors or 2RU, 40 BNC connectors
- Aluminium in Clear or Black anodised
- Steel in Black powder coat
- Customised versions available on request

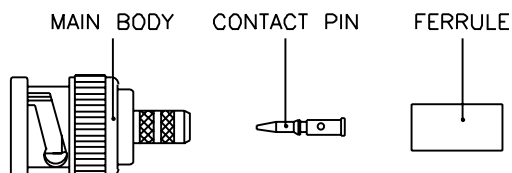
PRODUCT - FIGURE DRAWING	Dimensions in mm (inches)	DESCRIPTION	MATERIAL / FINISH	LOADED WITH <small>(refer to page 84 for specifications)</small>	PART NUMBER
		1RU 1X20 Patch Panel, Supplied with 1 ID label	Steel / Black	Empty Panel	AC-BNC20M
		Steel / Black	AC-BNC-JJA-75	AC-BNC20MJ75	
		Steel / Black	AC-BNC-PJA-75	AC-BNC20MP75	
		Aluminium / Clear	Empty Panel	AC-BNC20A	
		Aluminium / Clear	AC-BNC-JJA-75	AC-BNC20AJ75	
		Aluminium / Clear	AC-BNC-PJA-75	AC-BNC20AP75	
		Aluminium / Black	Empty Panel	AC-BNC20B	
		Aluminium / Black	AC-BNC-JJA-75	AC-BNC20BJ75	
		Aluminium / Black	AC-BNC-PJA-75	AC-BNC20BP75	
		2RU 2X20 Patch Panel, Supplied with 2 ID labels	Steel / Black	Empty Panel	AC-BNC40M
		Steel / Black	AC-BNC-JJA-75	AC-BNC40MJ75	
		Steel / Black	AC-BNC-PJA-75	AC-BNC40MP75	
		Aluminium / Clear	Empty Panel	AC-BNC40A	
		Aluminium / Clear	AC-BNC-JJA-75	AC-BNC40AJ75	
		Aluminium / Clear	AC-BNC-PJA-75	AC-BNC40AP75	
		Aluminium / Black	Empty Panel	AC-BNC40B	
		Aluminium / Black	AC-BNC-JJA-75	AC-BNC40BJ75	
		Aluminium / Black	AC-BNC-PJA-75	AC-BNC40BP75	
Panel ID label	Plastic	Not Applicable	AC-BNC-LABEL		



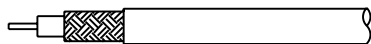
## BNC 75 RF ASSEMBLY INSTRUCTIONS

### ASSEMBLY A

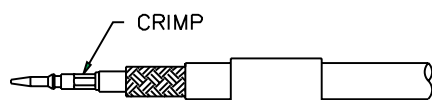
#### STEP 1



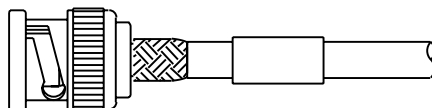
#### STEP 2



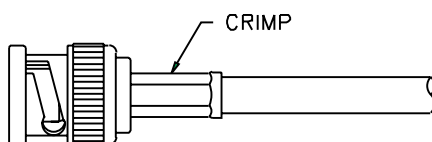
#### STEP 3



#### STEP 4



#### STEP 5



STEP 1. All parts of the connector are shown. A crimp tool is necessary to complete the connection.

STEP 2. Strip the cable inner conductor, dielectric, braid, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalogue.

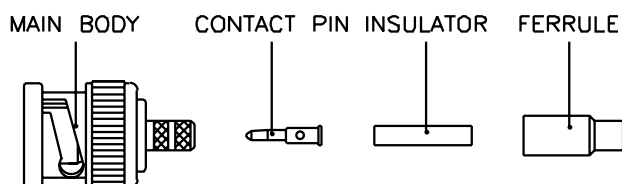
STEP 3. Insert inner conductor into the CONTACT PIN, crimp it with the crimp tool as shown. Then slide the FERRULE onto cable.

STEP 4. Insert the MAIN BODY into braid and dielectric.

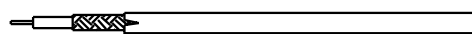
STEP 5. Slide the FERRULE over braid, crimp it with the crimp tool as shown.

### ASSEMBLY B

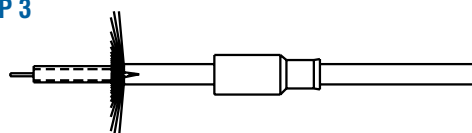
#### STEP 1



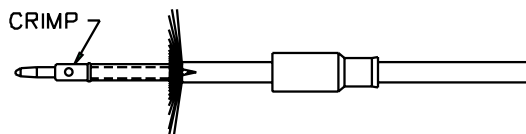
#### STEP 2



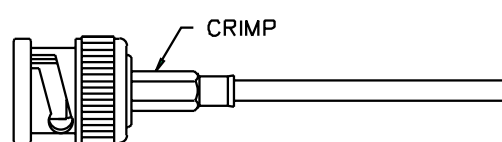
#### STEP 3



#### STEP 4



#### STEP 5



STEP 1. All parts of the connector are shown. A crimp tool is necessary to complete the connection.

STEP 2. Strip the inner conductor, dielectric, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalogue.

STEP 3. Slide the FERRULE on to cable, then fold back braid wire and slide the INSULATOR on to dielectric as shown.

STEP 4. Insert inner conductor into the CONTACT PIN, crimp it with crimp tool as shown.

STEP 5. Push cable and parts into the MAIN BODY until it stops. Then slide the FERRULE over braid wire and against the MAIN BODY, crimp it with the crimp tool as shown.



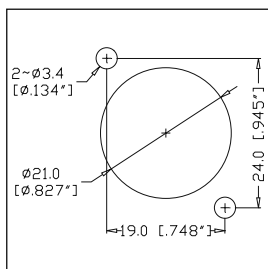
## STANDARD DATA BNC 75 RF CONNECTORS

		VALUE	
<b>GENERAL CHARACTERISTICS</b>	Mating	Bayonet Lock	
	Cable Attachment	Crimp - Crimp	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
<b>ELECTRICAL CHARACTERISTICS</b>	Impedance	75Ω	
	Frequency Range - Standard	0 - 1 GHz	
	- True 75 Ohm	0 - 4 GHz	
	Voltage Rating	500V RMS	
	Dielectric withstanding voltage	1500 Volts RMS	
	VSWR - Standard	1.05+0.1f(GHz) DC to 1 GHz	
	- True 75 Ohm	1.5+0.1f(GHz) DC to 4 GHz	
	Contact Resistance		
Centre Contact	1.5 milliohm		
Outer Contact	1.0 milliohm		
Insulation Resistance	5000 MΩ (min.)		
<b>MATERIALS</b>	<b>Part</b>	<b>Material</b>	<b>Finish</b>
	Body, Coupling sleeves	Brass	Nickel
	Crimp Ferrule	Annealed Copper	Nickel
	Male Contact	Brass	Gold
	Female Contact	Beryllium Copper or Phosphor Bronze	Gold
	XLR Housing	Diecast Zinc Alloy	Satin Nickel or Black Polyester
	Insulators	Teflon or Delrin	Natural

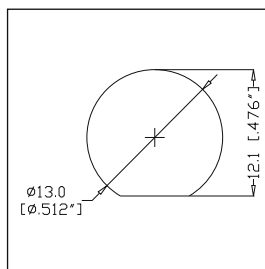
**NOTE:** These characteristics are typical and may not apply to all connectors.

## PANEL CUTOUTS - FRONT VIEW

AC-BNC-PJ-75  
AC-BNC-JJ-75



AC-BNC-PJA-75  
AC-BNC-JJA-75



Rev 4 - 03/2013





## 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
- Speakers
- Mixing desks
- Rack mount equipment
- Patch panel

### Features / Options – PRO RANGE 1/4" Phone Plug T-Series.

- Mono or Stereo (TRS)
- Switching Plugs
- Stylised shell design with Ergonomic grip
- Nickel or Gold contact plating
- Straight or Right Angle
- Keyed Shell
- Optional heavy duty metal backshell / boot
- Great solderability
- Increased solder area on ground contact
- "Jaws" Cable Clamp
- Precision machined contacts
- Coloured Grommet
- JUMBO Series Plugs

### Features / Options – MUSICIAN RANGE 1/4" Phone Plug

- Mono or Stereo (TRS)
- Compact Shell
- Straight or Right angle
- Stylish shell design
- Flexible grommet cable protection
- Nickel or Gold contact plating
- Satin Nickel or Black finish
- Diecast shell
- 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 95 for right angle connector Jaws cable clamp specifications.

### 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)	M SERIES	M SERIES II	CUSTOM SERIES <sup>1</sup>
<b>PRECISION MACHINED CONTACTS</b>		X	X	X	X	X	X	X	X
<b>CENTER CONTACT</b>	1 pc. Center Contact	X	X	X	X	X			X*
	2 pc Press Fit Tip/Center Contact					X	X		X*
<b>BARREL:</b>	Machined Tube	X	X	X	X	X			
	Precision Extruded Tube					X	X		X
<b>JAWS CABLE CLAMP</b>		X	X		X	X			
<b>MIN. CABLE OD</b>	Black Jaw: 3mm/0.118"	X	X		X	X			
	Purple Jaw: 6mm/0.236"	X			X				
	Purple Jaw: 5.5mm/0.216"		X			X			
<b>MAX. CABLE OD</b>	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			
<b>STANDARD CABLE CLAMP</b>				X			X	X	X
<b>MIN. CABLE OD</b>	7.5mm/0.295"			X					
<b>MAX. CABLE OD</b>	6mm/0.236"					X			
	8mm/0.315"						X		
	8.8mm/0.345"							X	
	10.5mm/0.413"			X					
<b>BACKSHELL FINISH</b>	Satin Nickel	X	X	X	X	X	X	X	
	Black	X	X	X	X	X	X	X	
	Bright Nickel								X
	Bright Gold								X
<b>CONTACT MATERIAL/ FINISH OPTIONS</b>	Brass/Nickel (Ni)	X	X	X	X	X	X	X	X
	Brass/Gold over 2µm (Ni)	X	X	X	X	X	X	X	X

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


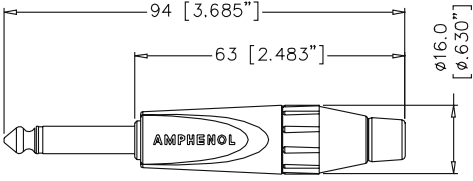

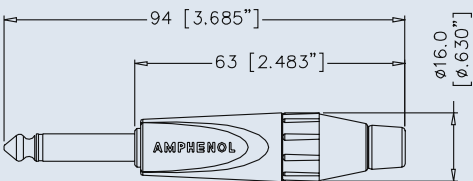

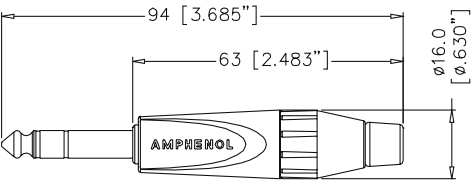

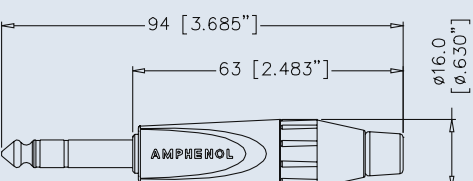


**Features:**

- 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



# Amphenol



1/4" PHONE PLUGS

T-SERIES (PRO RANGE)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM2PN TM2PN-AU TM2PNJ TM2PN BULK
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM2PBM TM2PBM-AU TM2PBMJ TM2PBM BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TS3PN TS3PN-AU TS3PNJ TS3PN BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TS3PBM TS3PBM-AU TS3PBMJ TS3PBM BULK
		1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin finish.	Standard Gold Plated Contacts Small Cable Clamp Bulk Pack	TM2RJ TM2RJ-AU TM2R TM2RJ BULK
		1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Black finish.	Standard Gold Plated Contacts Small Cable Clamp Bulk Pack	TM2RBJ TM2RBJ-AU TM2RB TM2RBJ BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin finish.	Standard Gold Plated Contacts Small Cable Clamp Bulk Pack	TS3RJ TS3RJ-AU TS3R TS3RJ BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Black finish.	Standard Gold Plated Contacts Small Cable Clamp Bulk Pack	TS3RBJ TS3RBJ-AU TS3RB TS3RBJ BULK

\*NOTE: Refer to page 95 for Jaws cable clamp specifications applicable to right angle connectors.



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 oxidization 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 94**  
**Specifications: Page 95**

US Patent No.8,162,697

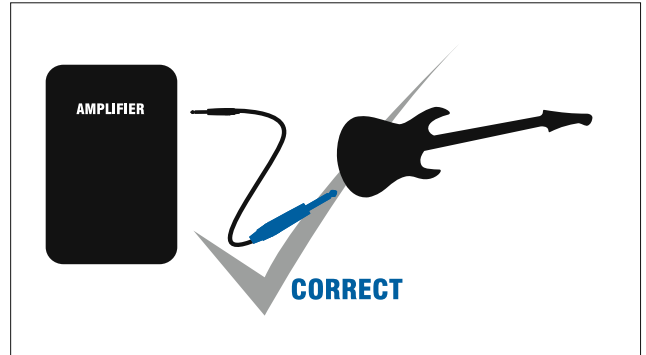
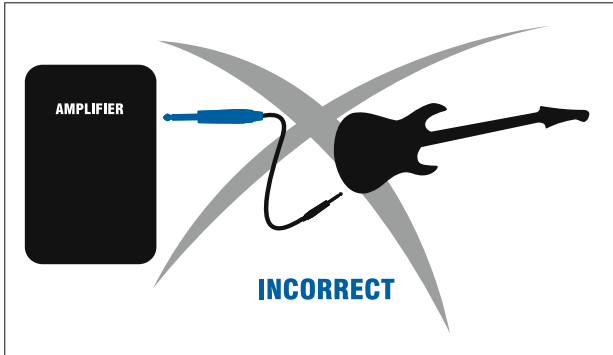
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mm $\varnothing$ ) Switch Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM1P TM1P-AU TM1PJ TM1P BULK
			1/4" (6.35mm $\varnothing$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

\*NOTE: Refer to page 98 for Jaws cable clamp specifications applicable to right angle connectors.

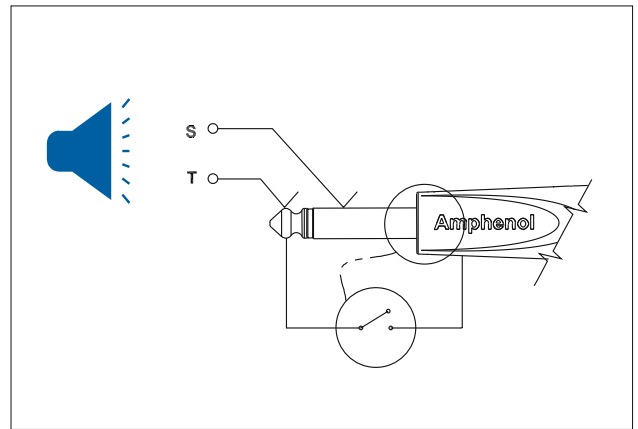
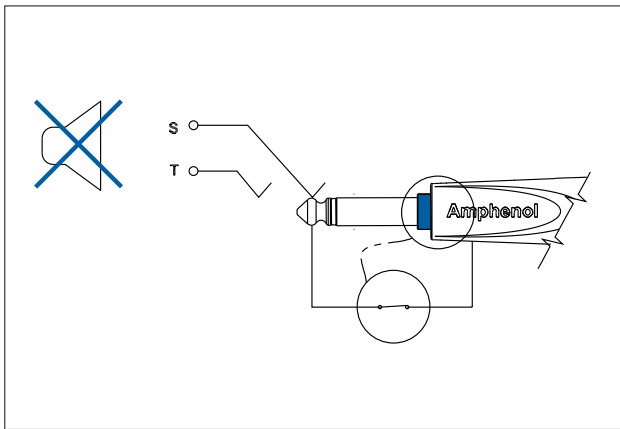
# Amphenol

## SwitchPlug - User Instruction

**CAUTION!**  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



**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 95

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

NOTE: Contact factory for availability of metal backshells.

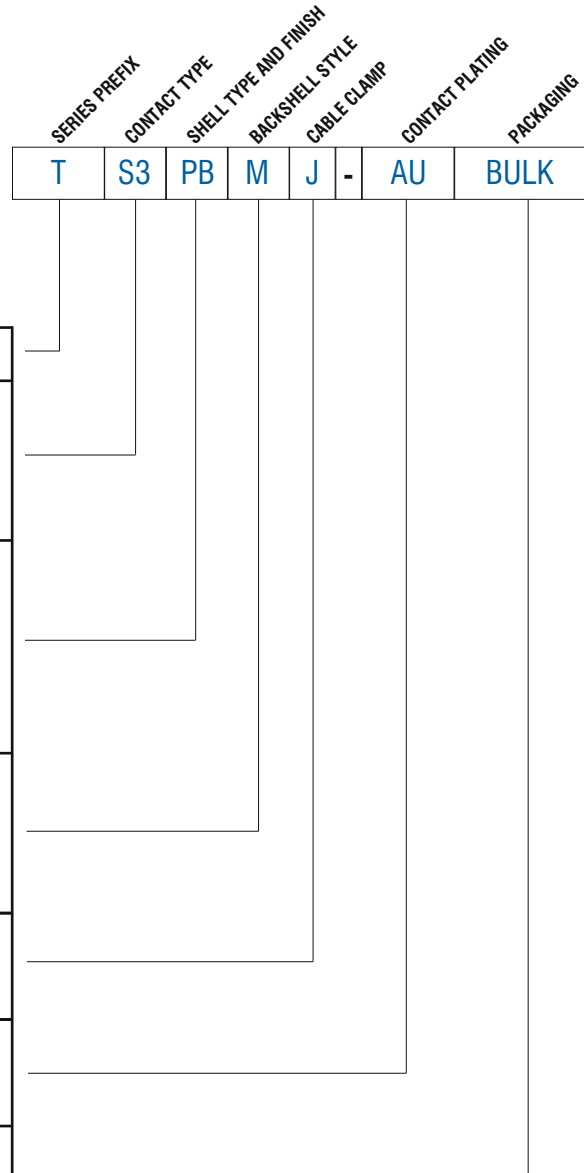


# Amphenol

## PART NUMBER BREAKDOWN

### T-SERIES (PRO RANGE)

E. G. **TS3PBMJ-AU BULK**  
**T** (Series Prefix), **S3** (Stereo), **P** (Plug Black), **M** (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





## 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 <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)	>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)		
	Weight <sup>1)</sup> - 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	3mm to 6mm (0.118" to 0.236")	3mm to 5.5mm (0.118" to 0.216")	NA
	Cable O.D. - Large Jaw	6mm to 7mm (0.236" to 0.275")	5.5mm to 6.5mm (0.216" to 0.255")	NA
	Cable O.D. - Jumbo	NA	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 5 - 03/2013

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





**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.






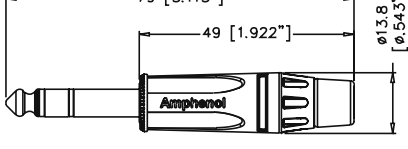

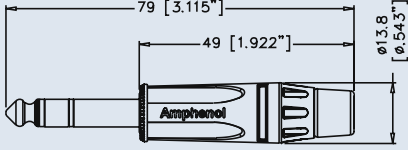
**Clamp Info:**







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



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





**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")

**Clamp Info:**







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

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

**Specifications:** Page 109

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	<p>Dimensions in mm (inches)</p>	1/4" (6.35mm $\varnothing$ ) 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" (6.35mm $\varnothing$ ) 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" (6.35mm $\varnothing$ ) 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" (6.35mm $\varnothing$ ) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-GB
			Gold Plated Contacts	ACPS-GB-AU
			Bulk Pack	ACPS-GB BULK

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

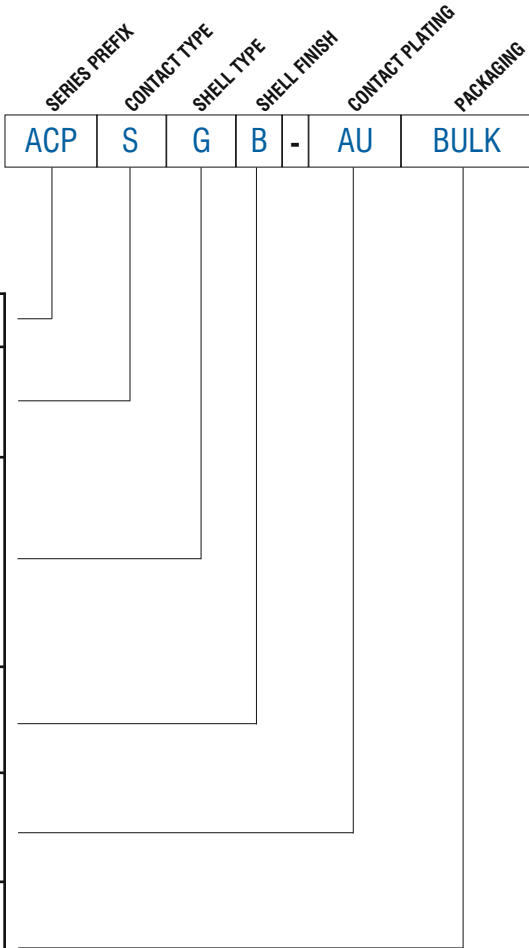


## PART NUMBER BREAKDOWN

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





## 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.

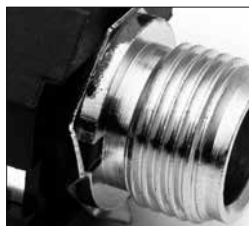
### Applications

- 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

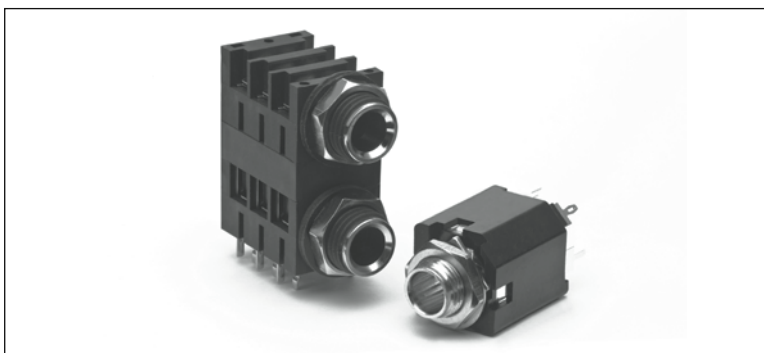
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- 6) Identify part number.
- 7) In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.





**Features:**

- 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 107**

**Panel Cutouts: Page 106**

**PCB Footprints: Page 108**

**Specifications: Page 109**

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 107	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 107	ACJM-MV35-2 ACJM-MV35-2S ACJS-MV35-3 ACJS-MV35-3S ACJS-MV35-5
		3.5mm / 1/4" (6.35mm) Dual Phone Jack, (Piggy-back), 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 107	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




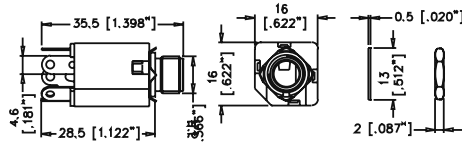
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDR
				Stereo	ACJS-MHDR
			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore	Mono	ACJM-MHDRM
				Stereo	ACJS-MHDRM
			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.	Refer to Schematic Chart on page 107	ACJM-HHOP
					ACJS-HHOP
			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.	Refer to Schematic Chart on page 107	ACJM-HHOP-1
					ACJS-HHOP-1
			1/4" (6.35mmø) 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" (6.35mmø) 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" (6.35mmø) 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" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
				Mono - Metal Nut	ACJM - MH



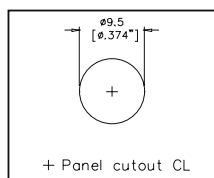
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
				Stereo - Metal Nut	ACJS - MH
			1/4" (6.35mmø) Jack, Horizontal Snap-fit PCB mount, Plastic housing 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 mount 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
<b>1/4" PHONE JACKS HORIZONTAL DUAL</b>			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*
Stereo	ACJS-MHDCM				

PRODUCT - FIGURE	DRAWING	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, 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*
<b>1/4" PHONE JACKS VERTICAL</b>		1/4" (6.35mmØ) Jack, Vertical PCB mount, Plastic housing, nut and entry bore	Refer to Schematic Chart on page 107	ACJM-PVB-2
				ACJM-PVB-2S
				ACJS-PVB-3
				ACJS-PVB-3S
				ACJS-PVB-5
		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 107	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 107	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 107	ACJM-MV-2
				ACJM-MV-2S
				ACJS-MV-3
				ACJS-MV-3S
				ACJS-MV-5

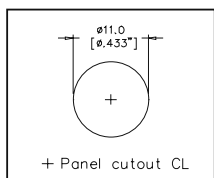


PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	 <p>Dimensions in mm (inches)</p>	1/4" (6.35mm) Jack, Solder Lug, Metal nut and insert	Refer to Schematic Chart on Page 110	ACJM-MVS-2 ACJM-MVS-2S ACJS-MVS-3 ACJS-MVS-3S ACJS-MVS-5

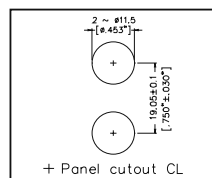
## PANEL CUTOUTS -FRONT VIEW



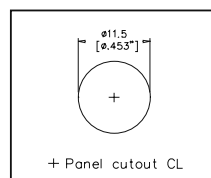
ACJM-MV  
ACJS-MV  
ACJM-MN-2  
ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJM-MN-5  
ACJS-MN-5  
ACJM-MIV  
ACJS-MIV  
ACJM-MVS  
ACJS-MVS



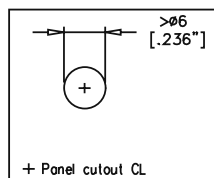
ACJM/S-PH  
ACJM/S-MH  
ACJM/S-PC  
ACJM/S-MC  
ACJM/S-PHR  
ACJM/S-MHR  
ACJM/S-PHS  
ACJM/S-MHS



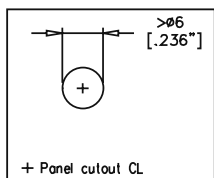
ACJM-MHD  
ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE



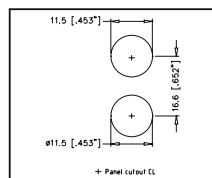
ACJM-MHDR  
ACJS-MHDR  
ACJS-HHDR



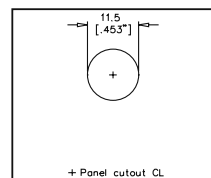
ACJM-NH35  
ACJS-NH35



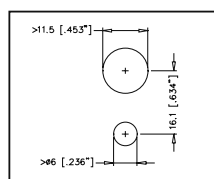
ACJM-NV35-2  
ACJM-NV35-2S  
ACJS-NV-35-3  
ACJS-NV-35-3S  
ACJS-NV-35-5  
ACJM-MV35-2  
ACJM-MV35-2S  
ACJS-MV-35-3  
ACJS-MV-35-3S  
ACJS-MV-35-5



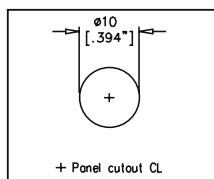
ACJS-MHDC  
ACJM-MHDC



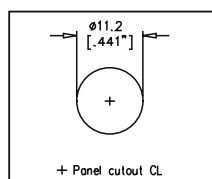
ACJS-IH  
ACJM-IH  
ACJS-IHS  
ACJM-IHS



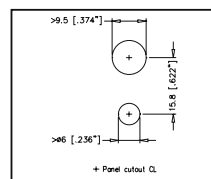
ACJM-MHD985  
ACJS-MHD985



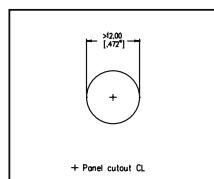
ACJS-MHOM  
ACJM-MHOM



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



ACJS-MVD985  
ACJM-MVD985



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

## SCHEMATIC CHART

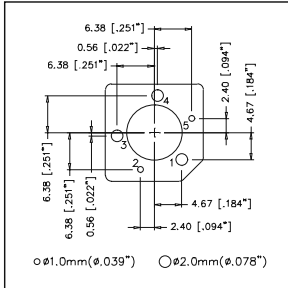
PART NO.	ACJM-MV35-2 ACJM-MN-2 ACJM-NV35-2 ACJM-PVB-2 ACJM-MV-2 ACJM-MVS-2 ACJM-MIV-2	ACJM-MV35-2S ACJM-MN-2S ACJM-NV35-2S ACJM-PVB-2S ACJM-MV-2S ACJM-MVS-2S ACJM-MIV-2S	ACJS-MV35-3 ACJS-MN-3 ACJS-NV35-3 ACJS-PVB-3 ACJS-MV-3 ACJS-MVS-3 ACJS-MIV-3	ACJS-MV35-3S ACJS-MN-3S ACJS-NV35-3S ACJS-PVB-3S ACJS-MV-3S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

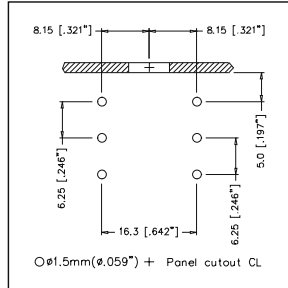
PART NO.	ACJM-HHOP-1 ACJM-PHOP-1 ACJM-MHOP-1	ACJS-HHOP-1 ACJS-PHOP-1 ACJS-MHOP-1	ACJM-HHOP ACJM-PHOP ACJM-MHOP	ACJS-HHOP ACJS-PHOP ACJS-MHOP
GENERAL SCHEMATIC				



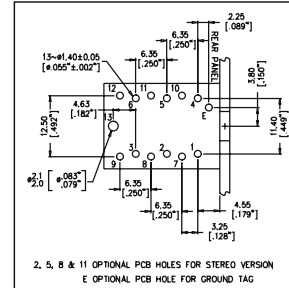
## PCB FOOTPRINT - CONNECTOR SIDE OF PCB



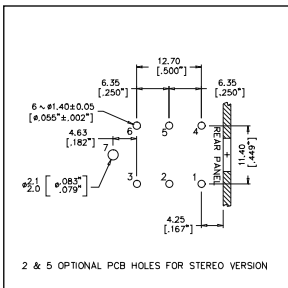
**ACJM-MV**  
**ACJS-MV**  
**ACJM-MN-2**  
**ACJS-MN-3**  
**ACJM-MN-2S**  
**ACJS-MN-3S**  
**ACJM-MN-5**  
**ACJS-MN-5**  
**ACJM-NV35-XX**  
**ACJS-NV35-XX**  
**ACJM-MIV-2**  
**ACJS-MIV-2S**  
**ACJM-MIV-3**  
**ACJS-MIV-3S**  
**ACJM-MIV-5**  
**ACJS-MIV-5**



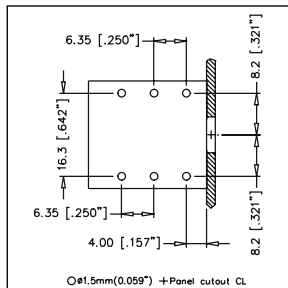
**ACJM-PH**  
**ACJM-MH**  
**ACJS-PH**  
**ACJS-MH**  
**ACJM-PC**  
**ACJM-MC**  
**ACJS-PC**  
**ACJS-MC**



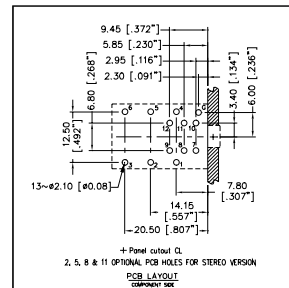
**ACJM-MHD**  
**ACJS-MHD**  
**ACJM-MHDE**  
**ACJS-MHDE**  
**ACJM-MHDEM**  
**ACJS-MHDEM**  
**ACJM-MHDC**  
**ACJS-MHDC**  
**ACJM-MHDCM**  
**ACJS-MHDCM**  
**ACJM-MHDM**  
**ACJS-MHDM**



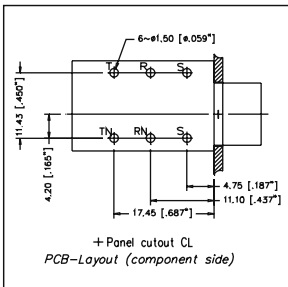
**ACJM-MHDR**  
**ACJS-MHDR**  
**ACJM-PHR**  
**ACJM-MHR**  
**ACJS-PHR**  
**ACJS-MHR**  
**ACJM-HHDR**  
**ACJS-HHDR**  
**ACJM-MHDM**  
**ACJS-MHDM**



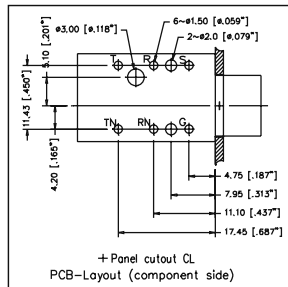
**ACJS-IH**  
**ACJM-IH**



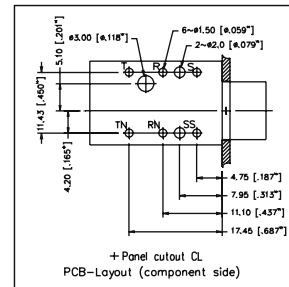
**ACJS-MHD985**  
**ACJM-MHD985**



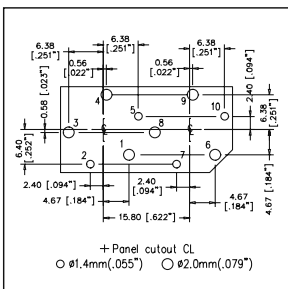
**ACJS-MHOM**  
**ACJM-MHOM**



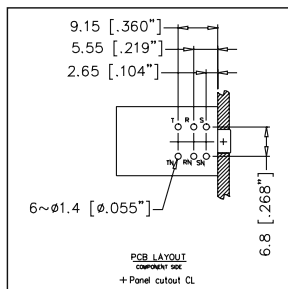
**ACJS-MHOP-1**  
**ACJS-PHOP-1**  
**ACJS-HHOP-1**  
**ACJM-MHOP-1**  
**ACJM-PHOP-1**  
**ACJM-HHOP-1**



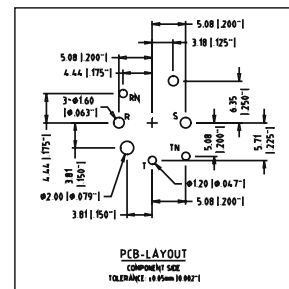
**ACJS-MHOP**  
**ACJS-PHOP**  
**ACJM-MHOP**  
**ACJM-PHOP**  
**ACJM-HHOP**  
**ACJS-HHOP**



**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.



## 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 Shell Material	Nylon PA66 30% Glass Filled
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin and fiberglass laminate
	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)

Rev 4 - 05/2014

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







## 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)

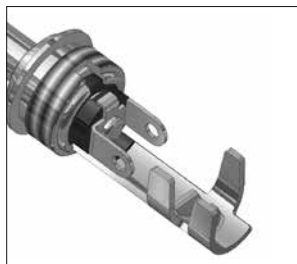
### Features / Options – 3.5mm Plugs Phone Jack

- 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.



## 3.5mm K-SERIES



**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.

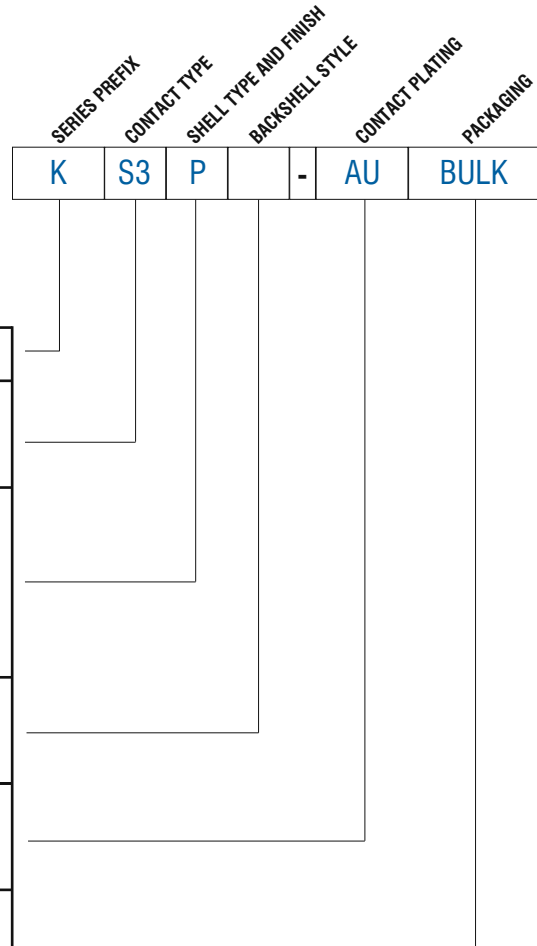
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		49 [1.911"] 35 [1.370"] ø10.3 [ø.406"]	3.5mm, Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard Gold Plated Contacts Bulk Pack	KM2P KM2P-AU KM2P BULK
		49 [1.911"] 35 [1.370"] ø10.3 [ø.406"]	3.5mm, Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard Gold Plated Contacts Bulk Pack	KM2PB KM2PB-AU KM2PB BULK
		49 [1.911"] 35 [1.370"] ø10.3 [ø.406"]	3.5mm, Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard Gold Plated Contacts Bulk Pack	KS3P KS3P-AU KS3P BULK
		49 [1.911"] 35 [1.370"] ø10.3 [ø.406"]	3.5mm, Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard Gold Plated Contacts Bulk Pack	KS3PB KS3PB-AU KS3PB BULK
		51 [2.008"] 37 [1.467"] 3.10 [.122"] ø10.3 [ø.406"]	3.5mm, Stereo Phone plug with extended shaft for mobile phones fitted with covers. Diecast Shell, Black Chrome finish, Flexible grommet	Standard Gold Plated Contacts	KS3PC KS3PC-AU



## PART NUMBER BREAKDOWN

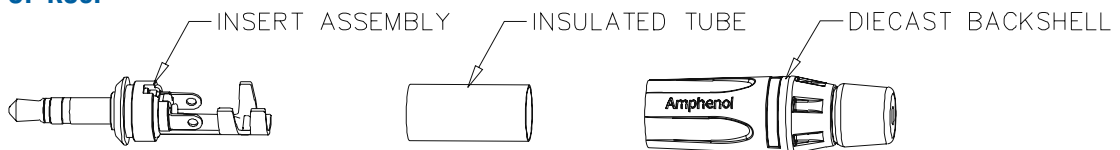
### K-SERIES

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



## 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.




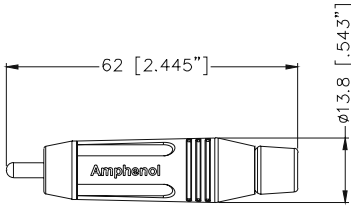

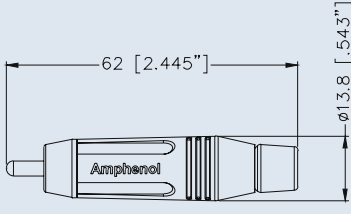

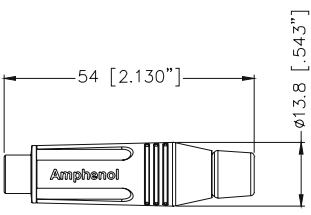

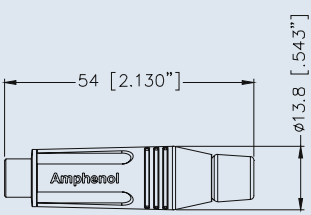

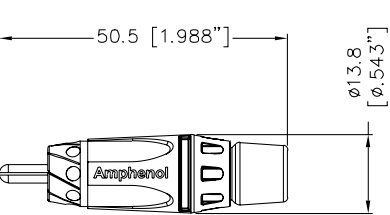
## RCA SERIES



### Features:


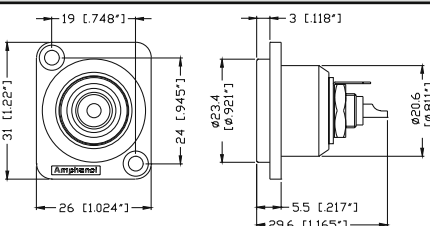
- Stylish design
- Flexible grommet cable protection
- Robust diecast shell
- Gold plated contacts
- Colour coded
- Good solderability
- Quick and easy assembly
- Panel mount utilises standard 'D' type housing

**Part Number Breakdown: Page 116**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		62 [2.445"] ø13.8 [.543"]	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
		62 [2.445"] ø13.8 [.543"]	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
		54 [2.130"] ø13.8 [.543"]	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
		54 [2.130"] ø13.8 [.543"]	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
		50.5 [1.988"] ø13.8 [ø.543"]	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



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			RCA Jack, Diecast Shell, Gold plated contacts, Nickel finish shell, coloured insulator.	<ul style="list-style-type: none"> <li>Red</li> <li>Black</li> <li>Yellow</li> <li>White</li> <li>Blue</li> <li>Green</li> </ul>	<ul style="list-style-type: none"> <li>ACJD-RED</li> <li>ACJD-BLK</li> <li>ACJD-YEL</li> <li>ACJD-WHT</li> <li>ACJD-BLU</li> <li>ACJD-GRN</li> </ul>

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

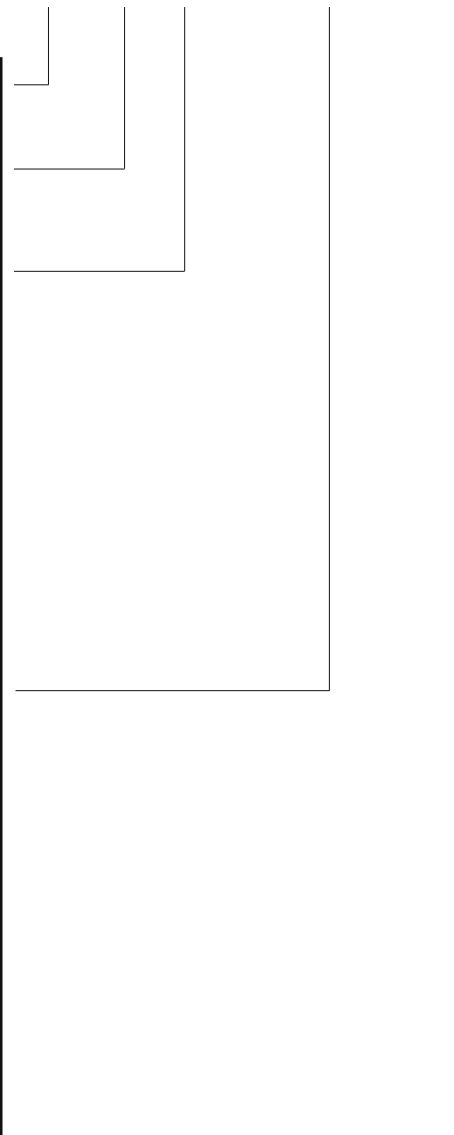
## PART NUMBER BREAKDOWN

### M SERIES RCA

E. G. **ACPR-RED BULK**  
**AC** (Series Prefix), **P** (Plug), **R** (Shell type), **RED** (Shell and Grommet Colour), **Bulk** Packaged.

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

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





**Features:**




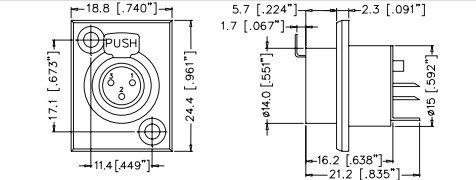
- Miniature version of the standard XLR series
- Diecast or Precision machined metal housings
- Metal cable clamp
- Precision machined pin contacts
- Stamped socket contacts
- Solder cup or Printed Circuit board contacts
- Available in 3, 4, 5 or 6 contacts
- Postive latchlock
- Flexible cable grommet

**Part Number Breakdown: Page 119 Specifications: Page 120**  
**PCB Footprints: Page 121 Panel Cutouts: Page 121**

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



# Amphenol

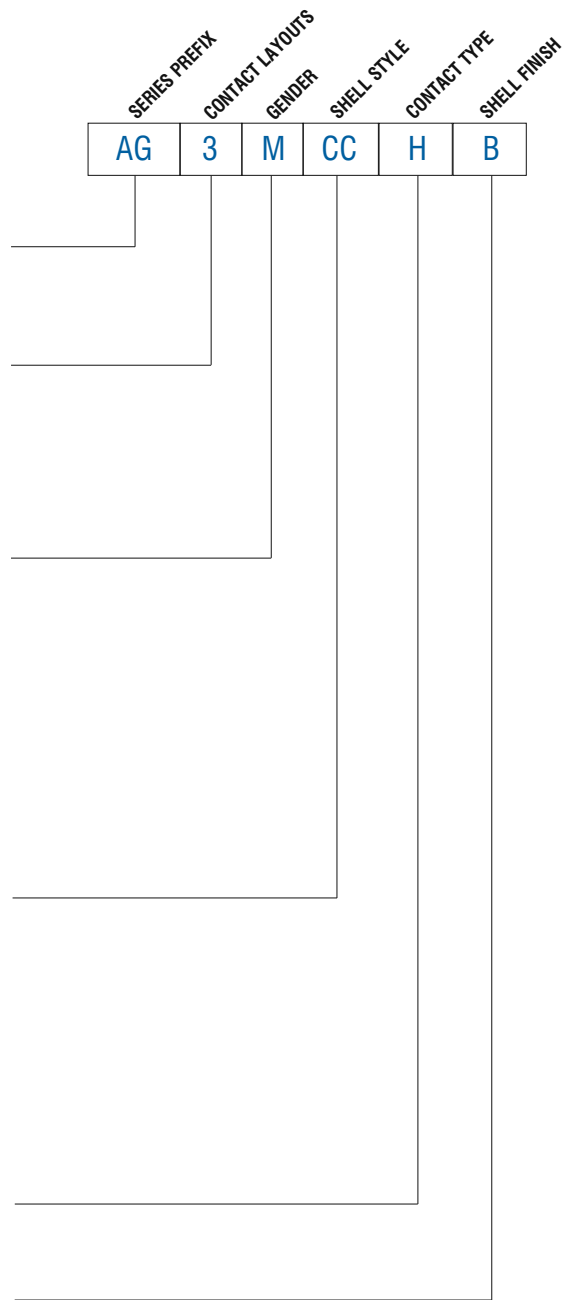
		<p>Male chassis connector, Horizontal PCB, Machined contacts, Thermoplastic shell</p>	<p>4 pole</p>	<p>AG4MPCH</p>
		<p>Female chassis connector, Stamped contacts, Nickel Finish</p>	<p>3 pole</p>	<p>AG3FCRV</p>
			<p>4 pole</p>	<p>AG4FCRV</p>
			<p>5 pole</p>	<p>AG5FCRV</p>
			<p>6 pole</p>	<p>AG6FCRV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

## PART NUMBER BREAKDOWN

### G TYPE CONNECTORS

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

<b>SERIES PREFIX</b>	AG	=	Series Prefix
<b>CONTACT LAYOUTS</b>	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6	=	6 Contacts
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
	Blank	=	Cable Connector Standard (Male or Female)
<b>SHELL STYLE</b>	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)	
<b>CONTACT TYPE</b>	H	=	Horizontal PCB (Style CC, PC only)
	V	=	Vertical PCB (Style CR only)
	Blank	=	Nickel Plated Finish
<b>SHELL FINISH</b>	B	=	Black Finish



## STANDARD DATA G TYPE

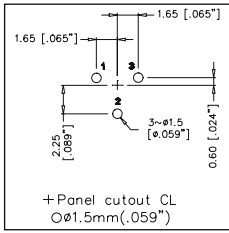
		VALUE			
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	3	4	5	6
	Termination	Printed Circuit Board (PCB) or Solder Bucket			
	Max. Wire Gauge - Stranded Wire	AWG 24 - 0.5mm <sup>2</sup>			AWG 28 - 0.38mm <sup>2</sup>
	Flammability	UL94V-0			
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU			
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS	1000V			250V
	Test Voltage AC RMS	125V AC			
	Current Carrying Capacity	5A	5A	4A	1.2A
	Typical Contact Resistance	≤10mΩ			
	Insulation resistance (initial) After Damp Heat Test	≥510MΩ ≥10MΩ			
	Dielectric Strength	1500 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.	2mm to 3.5mm (0.078" to 0.137")		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				

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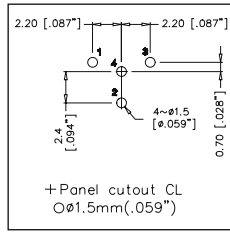
<sup>1)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



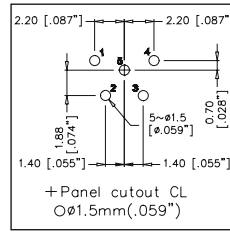
## PANEL CUTOUTS - CONNECTOR SIDE OF PCB



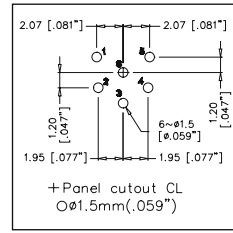
**AG3MCC**



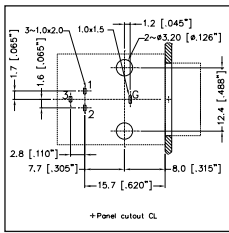
**AG4MCC**



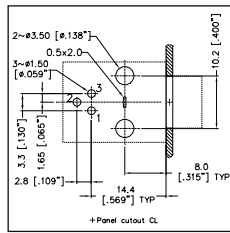
**AG5MCC**



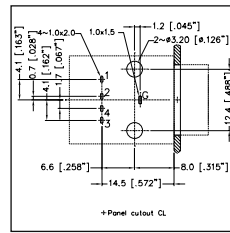
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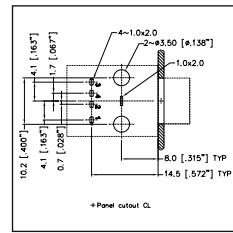
**AG3FCCH**



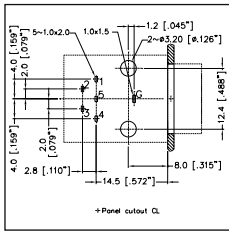
**AG3MCCCH**



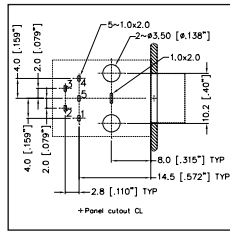
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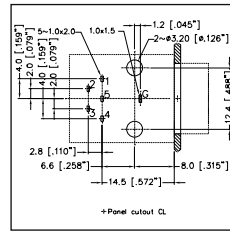
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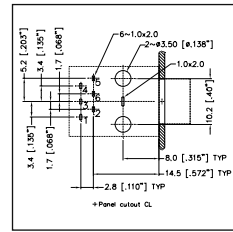
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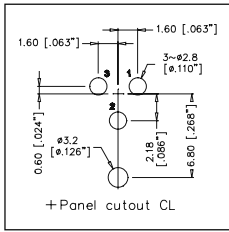
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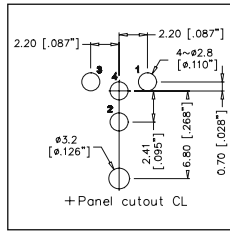
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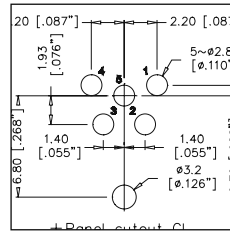
**AG6MCCCH**



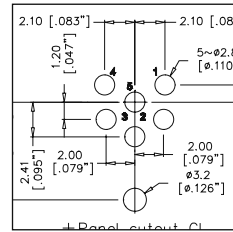
**AG3FCRV**



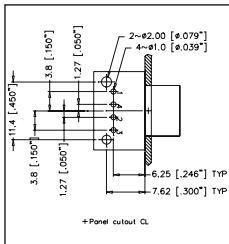
**AG4FCRV**



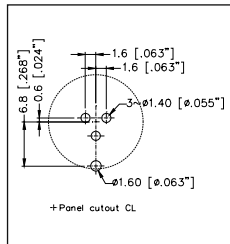
**AG5FCRV**



**AG6FCRV**

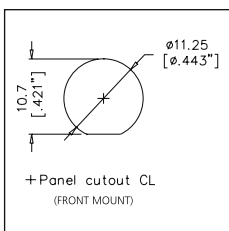


**AG4MPCH**

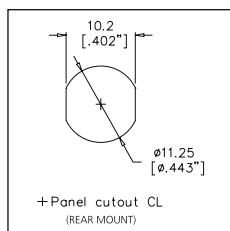


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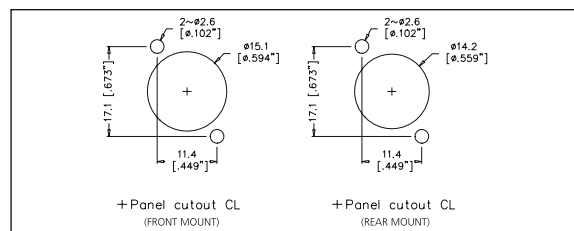
## PANEL CUTOUTS - FRONT VIEW



**AG3MCC  
AG4MCC  
AG5MCC  
AG6MCC**



**AG3MCCCH  
AG4MCCCH  
AG5MCCCH  
AG6MCCCH  
AG4MPCH**



**AG3FCRV  
AG4FCRV  
AG5FCRV  
AG6FCRV**



## 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.


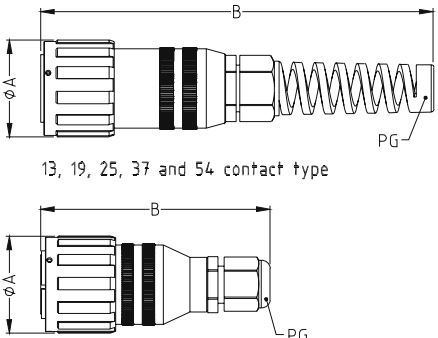
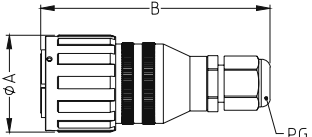

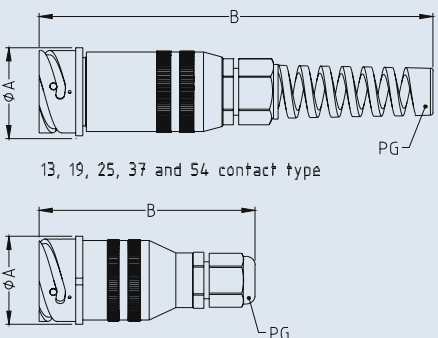
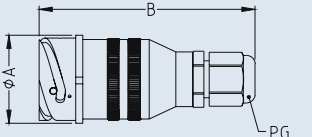
**Features:**

- 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.


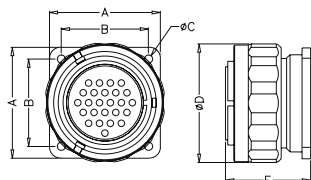

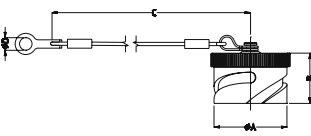
**Specifications:** Page 127 **Part Number Breakdown:** Page 126 **Wiring Information:** Page 136


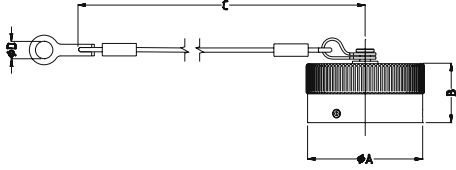

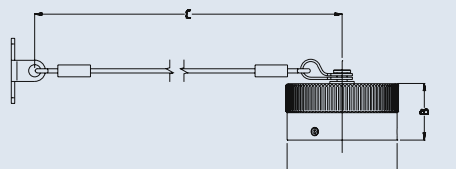
**Crimp Tooling:** Page 126

PRODUCT - FIGURE	Dimensions in mm (inches) <b>DRAWING</b>	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
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.



PRODUCT - FIGURE	Dimensions in mm (inches) <b>DRAWING</b>	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
		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	-
		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		
	<p>Plug protective dustcap to suit MP-4102 types.</p> 	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
			<p>Receptacle protective dustcap to suit MP-4101 types.</p> 	38.8 (1.53)	20.7 (0.81)	255 (8.07)	-	-	-
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



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

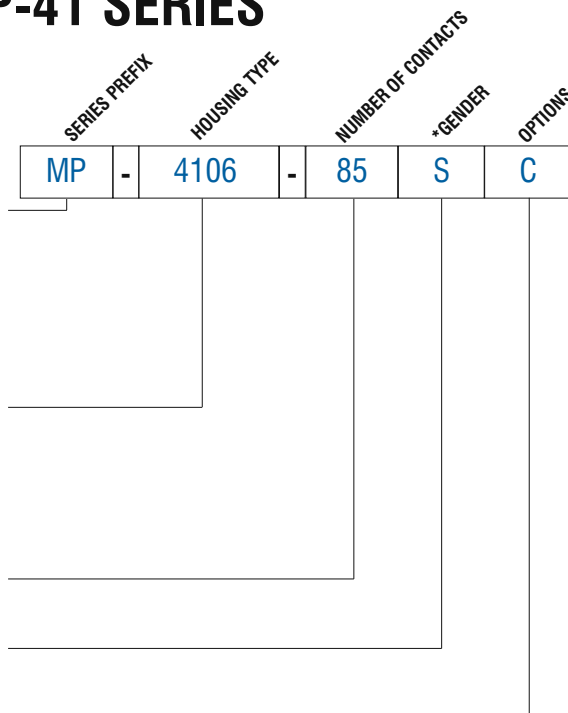
**NOTE:** Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary contacts in MP-41 Series connectors are available in publication PI523 located on our website [www.amphenolaudio.com](http://www.amphenolaudio.com).

## PART NUMBER BREAKDOWN MP-41 SERIES

### MULTIPIN CIRCULAR CONNECTORS

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

<b>SERIES PREFIX</b>	MP	=	Series Prefix
<b>HOUSING TYPE</b>	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	
<b>NO. OF CONTACTS</b>			13, 19, 25, 37, 54, 85, 150
<b>GENDER</b> *Not required for dustcap part numbers	P	=	Male pin contacts
	S	=	Female socket contacts
<b>OPTIONS</b>	C	=	Supplied with Dustcap





## 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	4-10	5-12	9-14	13-18	14-25	19-32
	(inches)	(0.15"-0.39")	(0.19"-0.47")	(0.35"-0.55")	(0.51"-0.70")	(0.55"-0.98")	(0.74"-1.25")	

Rev 2 - 03/2013

\*Not suitable for domestic applications above 50V






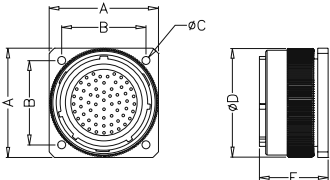

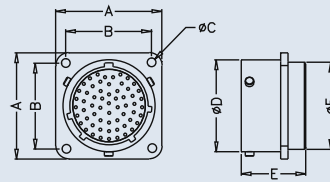

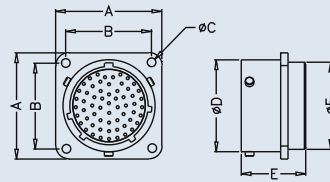

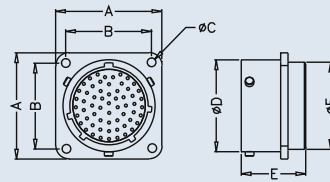
Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles as the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61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


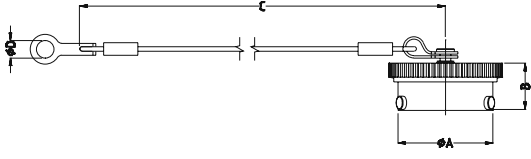

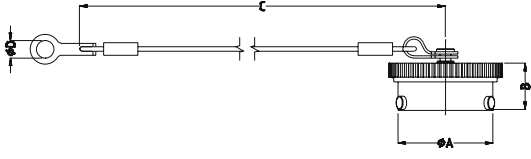

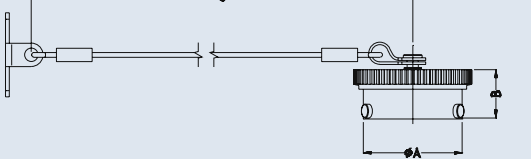

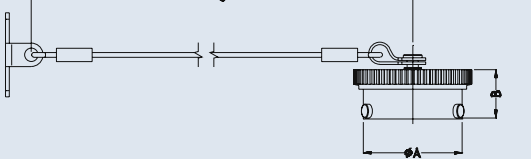

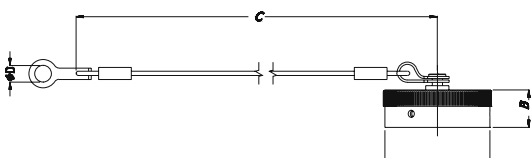

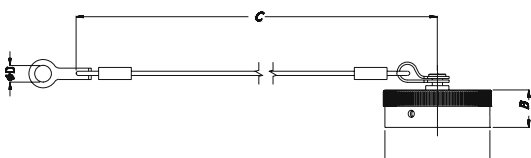

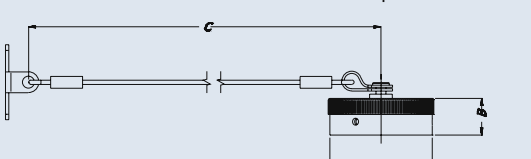

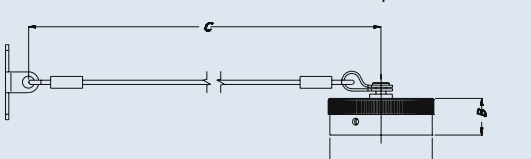
**Features:**

- 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 130    Wiring Info: Page 135**

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 pin contacts, Black finish, Gold plated solder contacts. 	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
	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts. 	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
	Straight cable plug with pin contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts. 	38.9 (1.53)	90 (3.54)	NPT	39	MP-6516-39P	MP-6516-39P-C
		45.5 (1.80)	100 (3.94)	NPT	61	MP-6516-61P	MP-6516-61P-C
	Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts. 	36.7 (1.45)	90 (3.54)	NPT	39	MP-6511-39S	MP-6511-39S-C
		43.0 (1.70)	100 (3.94)	NPT	61	MP-6511-61S	MP-6511-61S-C

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

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



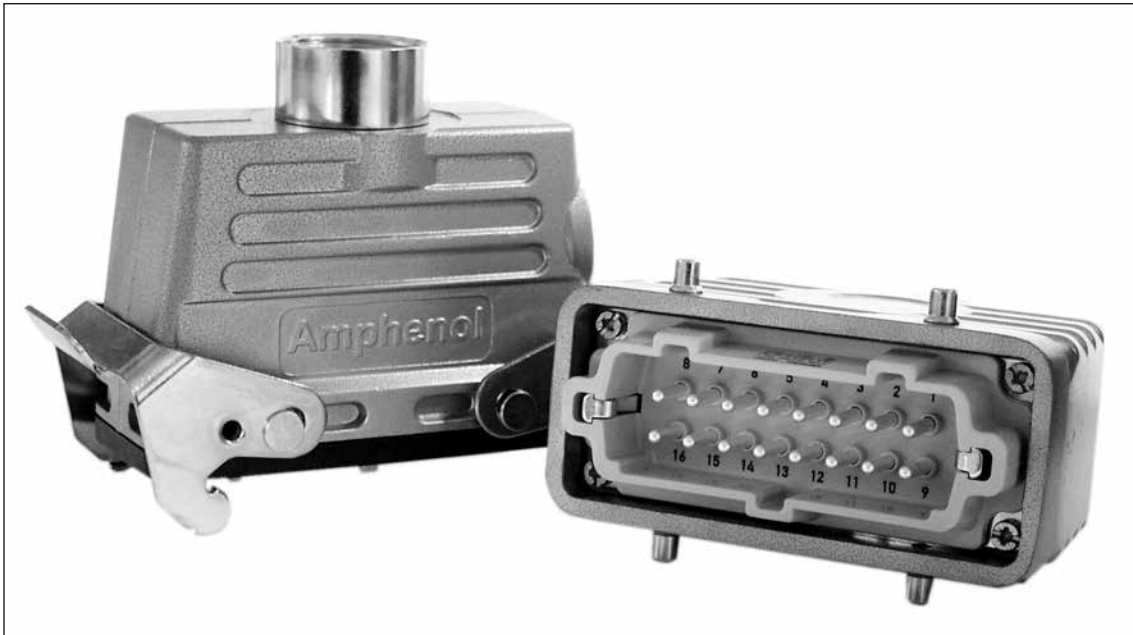
## STANDARD DATA MP-62 SERIES / MP - 65 SERIES

		VALUE	
<b>GENERAL CHARACTERISTICS</b>	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	
<b>ELECTRICAL CHARACTERISTICS</b>	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	
<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 / NPT Thread	
	Mechanical Operations	500 mating cycles (minimum)	
<b>MATERIALS</b>	Connector / Shell Finish	Aluminium Alloy / Black	
	Insert	Neoprene	
	Male pin contact machined - Plating	Brass / Gold plated	
	Female socket contact machined - Plating	Brass / Gold plated	
<b>CLAMPING CHARACTERISTICS</b>	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





## 146 SERIES RECTANGULAR 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.



# Amphenol

AC SERIES

## ACCESSORIES




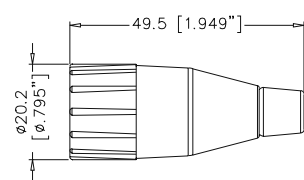

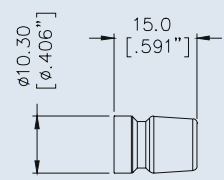

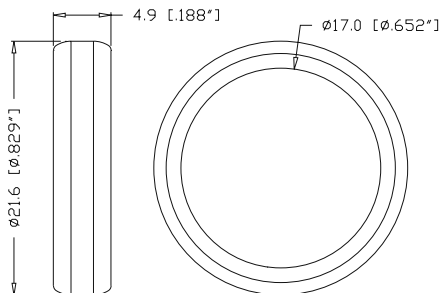

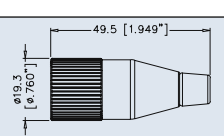

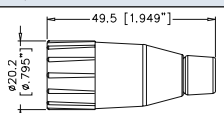
### ACCESSORIES

- 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	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		60.4 [2.378"] ø19.0 [ø.748"]	XLR 3 pole male to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish Black Finish	AC3M3MW AC3M3MBW
		60.4 [2.378"] ø19.0 [ø.748"] 66.5 [2.618"]	XLR 3 pole female to 3 pole female adapter, Pre wired, Metal Shell	Nickel Finish Black Finish	AC3F3FW AC3F3FBW
		60.4 [2.378"] ø19.0 [ø.748"] 73.5 [2.892"]	XLR 3 pole female to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish Black Finish	AC3F3FBW AC3F3MBW
		62.5 [2.461"] 75.7 [2.980"] ø18.9 [ø.744"]	XLR 3 pole female to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F5MW
		62.5 [2.461"] 75.7 [2.980"] ø18.9 [ø.744"]	XLR 3 pole male to 5 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3M5FW
		76 [2.991"] ø19 [ø.748"]	XLR 5 pole male to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC5M5MW
		29 34 75	XLR D shell adapter, 3 pole male to 3 pole male, Pre-wired	Not Applicable	AC3M3MDW
		29 34 75	XLR D shell adapter, 3 pole female to 3 pole female, Pre-wired	Not Applicable	AC3F3FDW
		29 34 75	XLR D shell adapter, 3 pole female to 3 pole male, Pre-wired	Not Applicable	AC3F3MDW
		29 34 75	XLR D shell adapter, 5 pole male to 5 pole male, Pre-wired	Not Applicable	AC5M5MDW
		29 34 75	XLR D shell adapter, 5 pole female to 5 pole female, Pre-wired	Not Applicable	AC5F5FDW

ACC.



PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	 <p>49.5 [1.949"] ø20.2 [ø.795"]</p>	AC Coloured Boot / Backshell  Note: Number Identification optional. (Please contact us.)	Brown	AC-NUT-BRN
			Red	AC-NUT-RED
			Orange	AC-NUT-ORG
			Yellow	AC-NUT-YEL
			Green	AC-NUT-GRN
			Blue	AC-NUT-BLU
			Violet	AC-NUT-VIO
			Grey	AC-NUT-GRY
			White	AC-NUT-WHT
	 <p>ø10.30 [ø.406"] 15.0 [.591"]</p>	Coloured Grommets to suit AC Series, T Series and Musician range	Brown	AC-GROMMET-BRN
			Red	AC-GROMMET-RED
			Orange	AC-GROMMET-ORG
			Yellow	AC-GROMMET-YEL
			Green	AC-GROMMET-GRN
			Blue	AC-GROMMET-GRN
			Violet	AC-GROMMET-VIO
			Grey	AC-GROMMET-GRY
			White	AC-GROMMET-WHT
	 <p>4.9 [188"] ø21.6 [ø.829"] ø17.0 [ø.652"]</p>	AC Coloured Identification Rings – Plain and Numbered  Note: Custom number Identification optional. (Please contact us.)	Brown	AC-RING-BRN
			Red	AC-RING-RED
			Orange	AC-RING-ORG
			Yellow	AC-RING-YEL
			Green	AC-RING-GRN
			Blue	AC-RING-BLU
			Violet	AC-RING-VIO
			Grey	AC-RING-GRY
			White	AC-RING-WHT
			Red #1-24	AC-RING-RED-PK1
			Yellow #1-24	AC-RING-YEL-PK1
			Blue #1-24	AC-RING-BLU-PK1
			Red #1-48	AC-RING-RED-PK2
Yellow #1-48	AC-RING-YEL-PK2			
Blue #1-48	AC-RING-BLU-PK2			
	 <p>49.5 [1.949"] ø19.3 [ø.760"]</p>	AC Metal Boot / Backshell, Black Finish	Not Applicable	AC-NUT-METAL
	 <p>49.5 [1.949"] ø20.2 [ø.795"]</p>	AC Thermoplastic Boot / Backshell. Suitable for use with 8.5mm (0.33") O.D. cable.	Not Applicable	AC-NUT-J-BLK

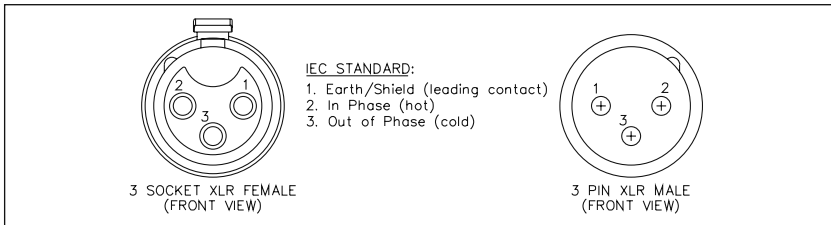
ACC.

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.



## CONNECTOR WIRING INFORMATION

### XLR (Microphone / Patch Cables)

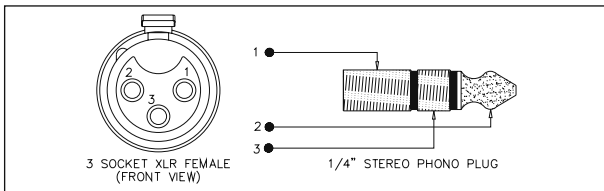


The standard XLR 3 contact pin outs are as shown above for a balanced lead. In such a configuration audio "Hot" (pin 2) is the in-phase connection whilst audio "Cold" (pin 3) is the out-of-phase connection. For an unbalanced lead however, you may connect pin 1 to either pin 2 or pin 3, but not both.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

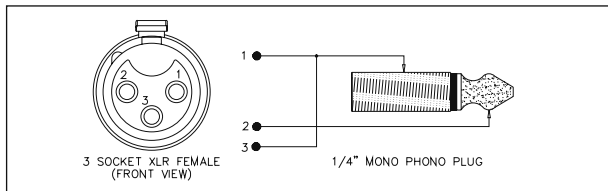
When terminating the cable shielding to pin 1 it is suggested that the shield be only grounded at one end of the cable to avoid inducing "hum". Pin 1 is a leading contact that engages at interconnection, before pin 2 or pin 3.

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

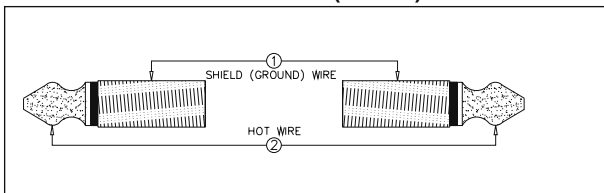
#### MICROPHONE CABLE - BALANCED



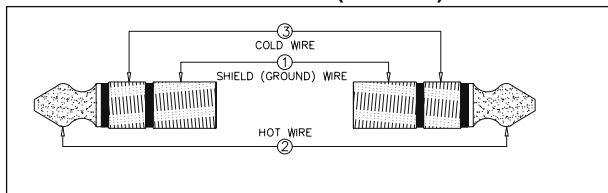
#### MICROPHONE CABLE - UNBALANCED



#### INSTRUMENT / LINE CABLE (MONO)



#### INSTRUMENT / LINE CABLE (STEREO)

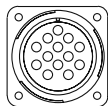


## CONNECTOR WIRING INFORMATION

### MP Series

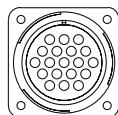
MP-41 Series  
4 Ch - 13 pin

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



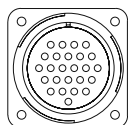
MP-41 Series  
6 Ch - 19 pin

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			
Ground	F		



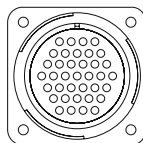
MP-41 Series  
8 Ch - 25 pin

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			
Ground	a		



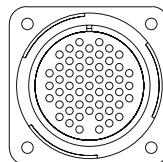
MP-41 Series  
12 Ch - 37 pin

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			
Ground	z		



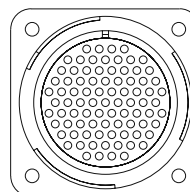
MP-41 Series  
16 Ch - 54 pin

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			
Ground	AG		



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			
Ground	V		

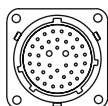


MP-41 Series  
48 Ch - 150 pin

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	20	30	31
11	32	33	34
12	35	36	37
13	38	39	40
14	41	42	43
15	44	45	46
16	47	48	49
17	50	51	52
18	53	54	55
19	57	58	59
20	60	61	62
21	63	64	65
22	66	67	68
23	69	70	71
24	72	73	74
25	75	76	77
26	78	79	80
27	82	83	84
28	85	86	87
29	88	89	90
30	91	92	93
31	94	95	96
32	97	98	99
33	100	101	102
34	103	104	105
35	56	81	106
36	107	108	109
37	110	111	112
38	113	114	115
39	116	117	118
40	119	120	121
41	122	123	124
42	125	126	127
43	139	128	129
44	130	131	132
45	133	134	135
46	136	137	138
47	140	141	142
48	143	144	145
General			
Ground	150		

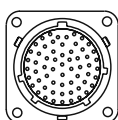
MP-62 Series  
12 Ch - 39 pin

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			
Ground	N/A		



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			
Ground	N/A		



Symbols	AC3FDZB-AU	19	AC4FB BULK	12	AC5MPB	23	AC-BNC20BP75	84
47-10070	AC3FDZB BULK	19	AC4FBJ	12	AC5MPNZ	23	AC-BNC20M	84
47-10090	AC3FDZ BULK	19	AC4F BULK	12	AC5MPNZB	23	AC-BNC20MJ75	84
47-10110	AC3FJ	11	AC4FDZ	20	AC6AF	13	AC-BNC20MP75	84
47-10120	AC3FPZ	22	AC4FDZ-AU	20	AC6AF-AU	13	AC-BNC40A	84
47-10150	AC3FPZB	22	AC4FDZB	20	AC6AFB	13	AC-BNC40AJ75	84
112119	AC3M	11	AC4FDZB-AU	20	AC6AFB-AU	13	AC-BNC40AP75	84
112133	AC3M3MBW	132	AC4FDZB BULK	20	AC6AFB BULK	13	AC-BNC40B	84
112157	AC3M3MDW	132	AC4FDZ BULK	20	AC6AFBJ	13	AC-BNC40BJ75	84
112508	AC3M3MW	132	AC4FDZV	20	AC6AF BULK	13	AC-BNC40BP75	84
112509	AC3M5FW	132	AC4FDZVB	20	AC6AFDZ	21	AC-BNC40M	84
112519	AC3MA-AU-PRE	30	AC4FJ	12	AC6AFDZ-AU	21	AC-BNC40MJ75	84
112521	AC3MAH1-AU-PRE	29	AC4FPZ	23	AC6AFDZB	21	AC-BNC40MP75	84
112565	AC3MAH2-AU-PRE	29	AC4FPZB	23	AC6AFDZB-AU	21	AC-BNC-JJ-75	83
112606	AC3MAH4-SW-B	29	AC4M	12	AC6AFDZB BULK	21	AC-BNC-JJ-75B	83
112950	AC3MAH-AU-PRE	29	AC4M-AU	12	AC6AFDZ BULK	21	AC-BNC-JJA-75T	83
112951	AC3M-AU	11	AC4MB	12	AC6AFDZV	21	ACBNCJJDW	133
112952	AC3MAV2-AU-PRE	30	AC4MB-AU	12	AC6AFDZVB	21	AC-BNC-JS-75	83
112953	AC3MAV-AU-PRE	29	AC4MB BULK	12	AC6AFJ	13	AC-BNC-JS-75B	83
112955	AC3MB	11	AC4MBJ	12	AC6AFPZ	23	AC-BNC-LABEL	84
112956	AC3MB-AU	11	AC4M BULK	12	AC6AFPZB	23	AC-BNC-PJ-75	83
112957	AC3MB BULK	11	AC4MDZ	20	AC6AM	13	AC-BNC-PJ-75B	83
52500002-734	AC3MBH1-AU-B	32	AC4MDZ-AU	20	AC6AM-AU	13	AC-BNC-PJA-75T	83
52500005-732	AC3MBH2-AU-B	32	AC4MDZB	20	AC6AMB	13	AC-D-ADAPTER	133
	AC3MBH3-AU-B	32	AC4MDZB-AU	20	AC6AMB-AU	13	AC-GROMMET-BRN	134
	AC3MBH-AU-B	32	AC4MDZB BULK	20	AC6AMB BULK	13	AC-GROMMET-GRN	134
A	AC3MBHL-AU-B	32	AC4MDZV	20	AC6AMB BULK	13	AC-GROMMET-GRY	134
	AC3MBJ	11	AC4MDZVB	20	AC6AMBJ	13	AC-GROMMET-ORG	134
	AC3M BULK	11	AC4MJ	12	AC6AMDZ	21	AC-GROMMET-RED	134
AC3F	AC3MBV1-AU-B	33	AC4MP	23	AC6AMDZ-AU	21	AC-GROMMET-VIO	134
AC3F3FBW	AC3MBV2-AU-B	33	AC4MPB	23	AC6AMDZB	21	AC-GROMMET-WHT	134
AC3F3FDW	AC3MBV3-AU-B	33	AC4MPNZ	22	AC6AMDZB-AU	21	AC-GROMMET-YEL	134
AC3F3FW	AC3MBV-AU-B	32	AC4MPNZB	22	AC6AMDZB BULK	21	ACJC5H BULK	46
AC3F3MBW	AC3MCP	15	AC5F	12	AC6AMDZ BULK	21	ACJC5HL BULK	46
AC3F3MDW	AC3MCP-AU	15	AC5F5FDW	132	AC6AMDZV	21	ACJC5S BULK	46
AC3F5MW	AC3MCP BULK	15	AC5F5MDW	133	AC6AMDZVB	21	ACJC5SL BULK	46
AC3FAH1-AU-PRE	AC3MCPJ	15	AC5FAH-AU-B	36	AC6AMJ	13	ACJC5V BULK	46
AC3FAH2-AU-PRE	AC3MDZ	19	AC5FAH-AU-B	36	AC6AMP	23	ACJC5VL BULK	46
AC3FAH-AU-PRE	AC3MDZ-AU	19	AC5FAV-AU-B	36	AC6AMPB	23	ACJC6AH BULK	44
AC3FAHL1-AU-PRE	AC3MDZB	19	AC5FB	12	AC6AMPNZ	23	ACJC6AHL BULK	44
AC3FAHL2-AU-PRE	AC3MDZB-AU	19	AC5FB-AU	12	AC6AMPNZB	23	ACJC6AV2 BULK	44
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MP-4164-25S	124	RJX8FB5HEB	73	SP-2-FBG	53	TM2PBM-AU	90		
MP-4164-25S-C	124	RJX8FB5HGRB	73	SP-2-FBL	53	TM2PBM BULK	90		
MP-4164-37S	124	RJX8FB5HGREB	74	SP-2-FBS	53	TM2PBMJ	90		
MP-4164-37S-C	124	RJX8FB5HGYB	73	SP-2-FBSL	53	TM2P BULK	89		
MP-4164-54S	124	RJX8FB5HGVEB	74						

## 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.

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