



*Audio*  
CONNECTORS















# Amphenol

ENTERTAINMENT INTERCONNECT CATALOGUE

Amphenol Australia Pty Ltd

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## ISO VIEW OF AX SERIES XLR CABLE CONNECTOR

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

Precision socket contacts with compact solder buckets reduce termination time and material wastage during soldering.

Leading first mate last break socket contact (Pin 1)

Ground solder tag.

Concentric socket contact design provides optimal contact resistance

Oversized ergonomic latch for quick and easy mating

Chuck style cable clamp c/w split opening for the widest cable acceptance range

O-ring provides vibration resistance and sealing.

Overmolded boot with flex bend relief for improved aesthetics, cable protection and boot retention.

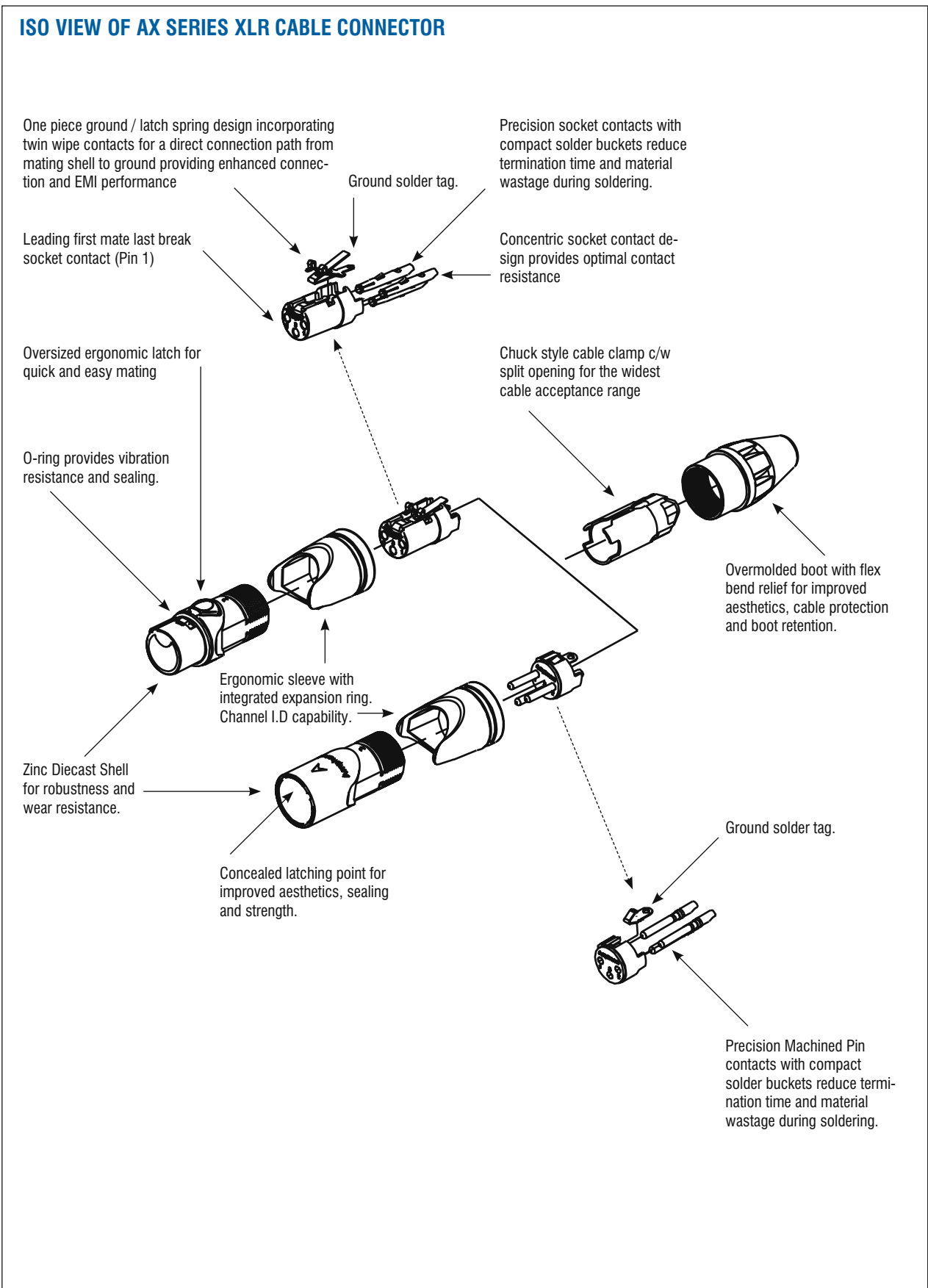
Ergonomic sleeve with integrated expansion ring. Channel I.D capability.

Zinc Diecast Shell for robustness and wear resistance.

Concealed latching point for improved aesthetics, sealing and strength.

Ground solder tag.

Precision Machined Pin contacts with compact solder buckets reduce termination time and material wastage during soldering.





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.

## AX SERIES XLR CABLE CONNECTORS



### 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.
- Clear I.D Sleeve for connector marking.
- Satin nickel or Matt black shell finish.
- Single or Bulk packaging.

**Part Number Breakdown: Page 6**

**Specifications: Page 7**

**Assembly Instructions: PI538\***

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)



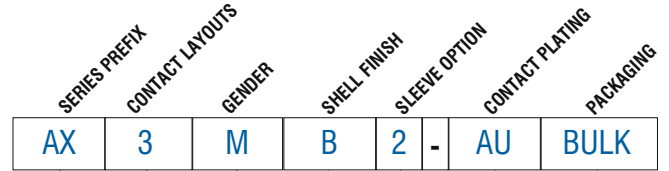
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male Machined contacts Black Finish	Standard	AX4MB
			Gold Plated Contacts	AX4MB-AU
			Bulk Pack	AX4MB BULK
		XLR 4 pole female Machined contacts Nickel Finish	Standard	AX4F
			Gold Plated Contacts	AX4F-AU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

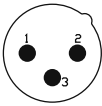
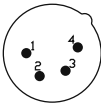
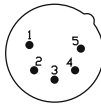
E. G. **AX3MB2-AU BULK**  
**AX** (Series Prefix), **3** contacts, **M**ale, **B**lack Finish,  
**2** (Red Sleeve)- **AU** (Gold Plated Contacts), **BULK** Packaged.



<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
	C	=	Clear
<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



## 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 RoHS Directive 2002/95/EC			
<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 2 - 11/2009

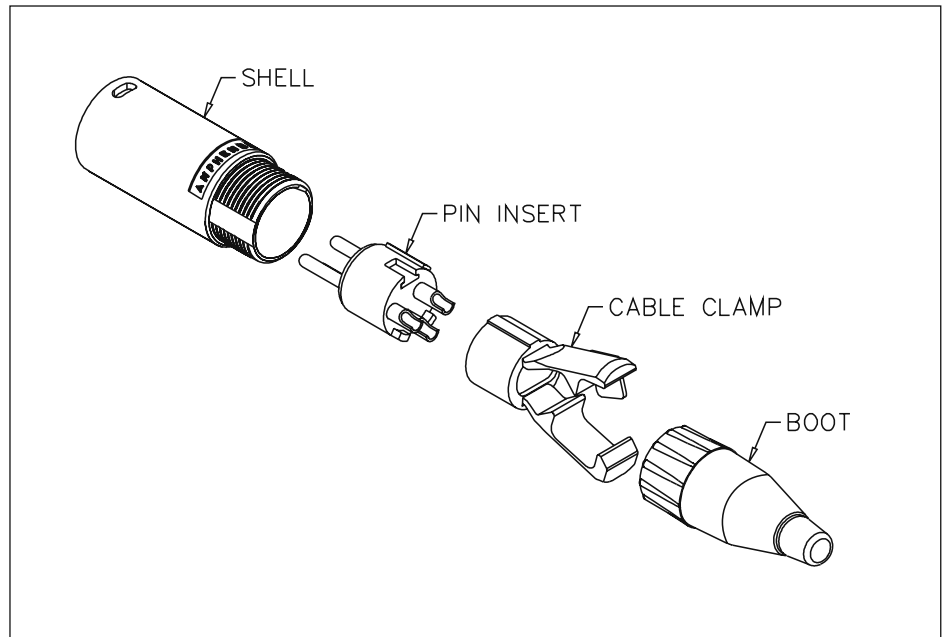
<sup>1)</sup> Not suitable for domestic applications above 50V

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

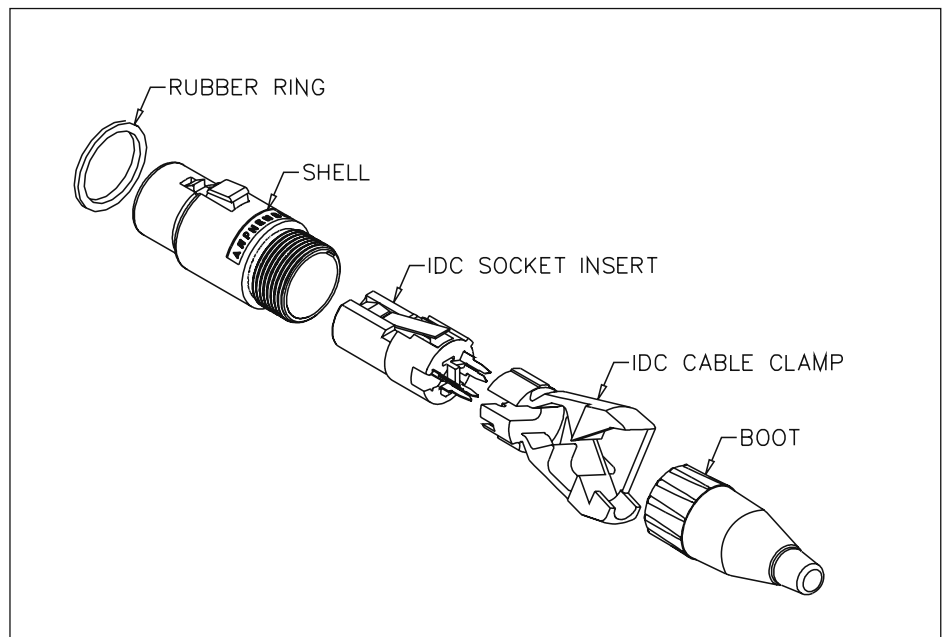


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## ISO VIEW OF AC3MM



## ISO VIEW OF AC3FI



**AMPHENOL AUSTRALIA WEBSITE**

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

**AMPHENOL WORLD HEADQUARTERS WEBSITE**

[www.amphenol.com](http://www.amphenol.com)

# Amphenol



## AC SERIES XLR CABLE CONNECTORS



Amphenol Australia have been manufacturing and designing innovative XLR connectors since 1955 and were the first to offer the cost saving Insulation Displacement Contact (IDC) in an XLR connector. The IDC connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. 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 for both standard Solder connectors and the Insulation Displacement Contact (IDC) connectors.
- 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.
- Solderless IDC technology offers savings of up to 60% in termination time.
- 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
- Insulation Displacement Contact (IDC)
- 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

### Options (Cont'd)

- 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")
- IDC Jaws cable clamp, Max. Cable O.D 5.85mm (0.23")
- 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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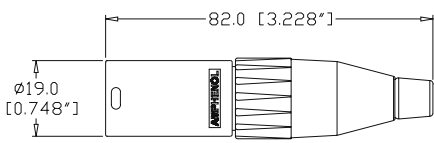

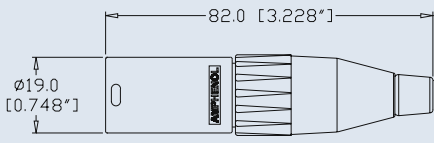

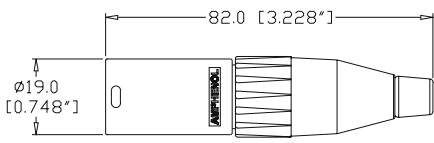

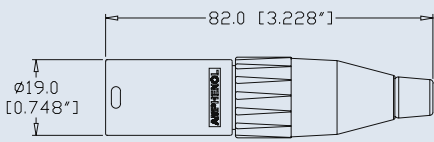

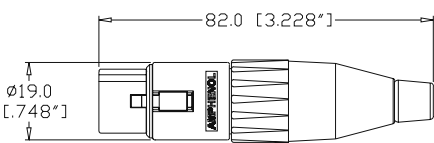

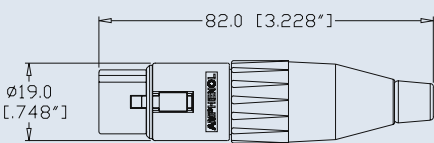

**Features:**

- 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.)


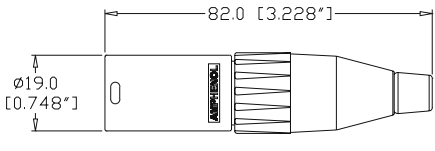

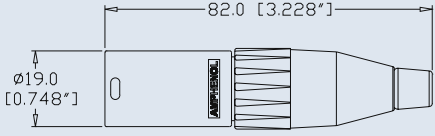

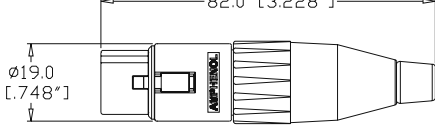

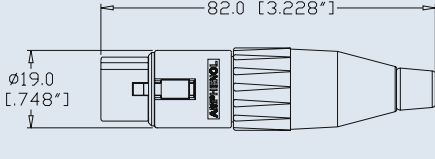

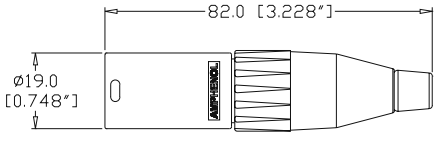

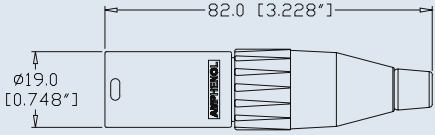

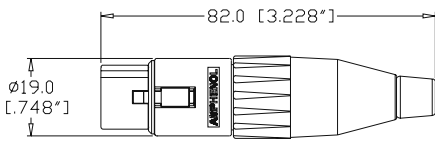

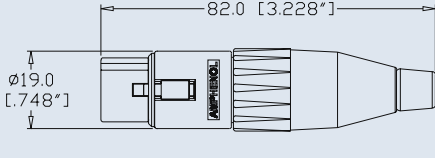
**Options:** Stamped Contacts (3 contact only), Gold plated contacts, Large or Small Jaws Cable Clamp, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells

**Part Number Breakdown: Page 13**

**Specifications: Page 20-21**


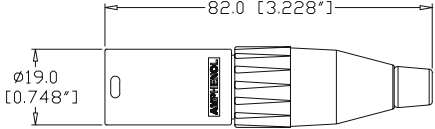

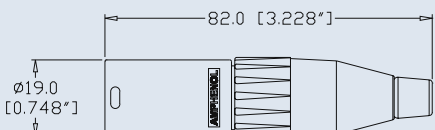

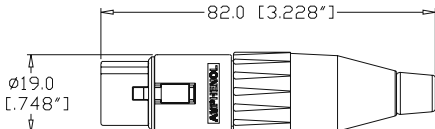



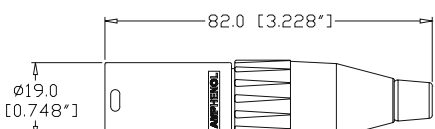

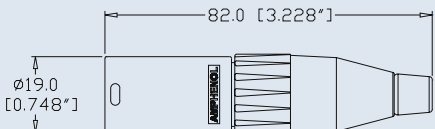

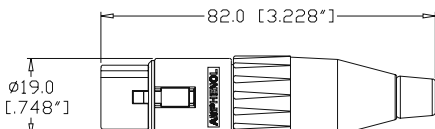

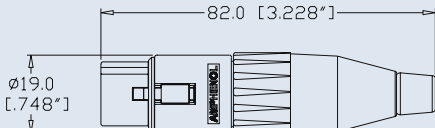
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	 <p>Dimensions in mm (inches)</p> <p>82.0 [3.228"]</p> <p>∅19.0 [0.748"]</p>	XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Large Cable Clamp</a> <a href="#">Bulk Pack</a>	<a href="#">AC3MM</a> <a href="#">AC3MM-AU</a> <a href="#">AC3MMJ</a> <a href="#">AC3MM BULK</a>
	 <p>Dimensions in mm (inches)</p> <p>82.0 [3.228"]</p> <p>∅19.0 [0.748"]</p>	XLR 3 pole male, Machined contacts, Black Finish, Jaws cable clamp	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Large Cable Clamp</a> <a href="#">Bulk Pack</a>	<a href="#">AC3MMB</a> <a href="#">AC3MMB-AU</a> <a href="#">AC3MMBJ</a> <a href="#">AC3MMB BULK</a>
	 <p>Dimensions in mm (inches)</p> <p>82.0 [3.228"]</p> <p>∅19.0 [0.748"]</p>	XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Large Cable Clamp</a> <a href="#">Bulk Pack</a>	<a href="#">AC3M</a> <a href="#">AC3M-AU</a> <a href="#">AC3MJ</a> <a href="#">AC3M BULK</a>
	 <p>Dimensions in mm (inches)</p> <p>82.0 [3.228"]</p> <p>∅19.0 [0.748"]</p>	XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Large Cable Clamp</a> <a href="#">Bulk Pack</a>	<a href="#">AC3MB</a> <a href="#">AC3MB-AU</a> <a href="#">AC3MBJ</a> <a href="#">AC3MB BULK</a>
	 <p>Dimensions in mm (inches)</p> <p>82.0 [3.228"]</p> <p>∅19.0 [0.748"]</p>	XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Large Cable Clamp</a> <a href="#">Bulk Pack</a>	<a href="#">AC3F</a> <a href="#">AC3F-AU</a> <a href="#">AC3FJ</a> <a href="#">AC3F BULK</a>
	 <p>Dimensions in mm (inches)</p> <p>82.0 [3.228"]</p> <p>∅19.0 [0.748"]</p>	XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Large Cable Clamp</a> <a href="#">Bulk Pack</a>	<a href="#">AC3FB</a> <a href="#">AC3FB-AU</a> <a href="#">AC3FBJ</a> <a href="#">AC3FB BULK</a>

# Amphenol

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



# Amphenol

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



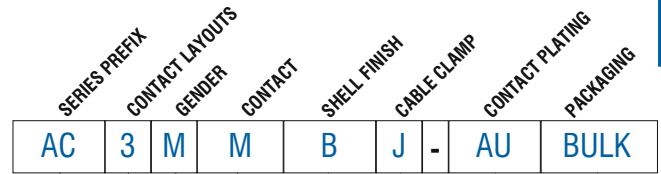
# Amphenol

## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - SOLDER



E. G. **AC3MMBJ-AU BULK**  
**AC** (Series Prefix), **3** contacts, **Male**, **M** Machined Contacts, **Black** Polyester Finish,  
**J** (Large Jaws), - **AU** (Gold Plated Contacts), **BULK** Packaged.



<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUTS</b>	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
	7	=	7 Contacts
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>CONTACT</b>	Blank	=	Stamped Contacts
	M	=	Machined Contacts
	G	=	Stamped Contacts, Ground Tag
	MG	=	Machined Contacts, Ground Tag (Applicable 3 male pin contacts, option M and MG only)
NOTE: 4 - 7 contact connectors have machined contacts and grounding as standard. They are not available in stamped contacts.			
<b>SHELL FINISH</b>	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
<b>CABLE CLAMP</b>	Blank	=	Standard Jaws 3 mm - 6.5 mm 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</b>	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated
NOTE: 7 Contact is gold plated as standard.			
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed

**Note:** All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 80 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.)

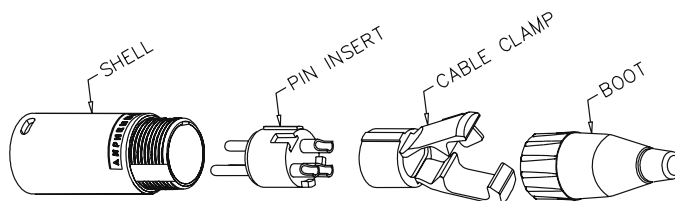
**Options:** Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells  
3, 4, 5, 6A and 7 Contacts.

**Specifications:** Page 20-21

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**



**METAL SHELL TYPE  
RIGHT ANGLE - SOLDER**



**Features:**

- XLR 90° right angle
- Metal or Thermoplastic connector shell
- Thermoplastic 90° right angle backshell
- Solder bucket connections
- "Jaws"™ Cable Retention System
- Contact Layouts in 3, 4, 5, 6A and 7
- Precision machined pin contacts
- Leading first mate last break socket contact

**Specifications: Page 20-21      Assembly Tooling: Page 79**

**NOTE\*** Connector assembly requires the use of assembly tool T2880. Please refer to assembly instruction PI540\* for details. The connector is non-servicable once assembled.



PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 90° right angle female, Metal shell, Nickel Finish, Jaws cable clamp	3 pole	AC3FR
			4 pole	AC4FR
			5 pole	AC5FR
			6A pole	AC6AFR
			7 pole	AC7FR
		XLR 90° right angle male, Metal shell, Nickel Finish, Jaws cable clamp	3 pole	AC3MMR
			4 pole	AC4MR
			5 pole	AC5MR
			6A pole	AC6AMR
			7 pole	AC7MR

\*PI540 is available for download at [www.amphenolaudio.com](http://www.amphenolaudio.com)



# Amphenol

## METAL SHELL TYPE - IDC (SOLDERLESS)



The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be quickly and easily assembled without screws or a soldering iron – by hand or portable termination tool. (Part number T2860.)

Labour savings of up to 60% in termination time can be achieved.

**Recommended Cable Dimensions: Page 21**

**Features:**

- Zinc Diecast Shell
- Available in 3 Contact only.
- Insulation Displacement Contacts (IDC - Solderless).
- “Jaws” Cable Retention System.
- Leading first mate last break socket contact.

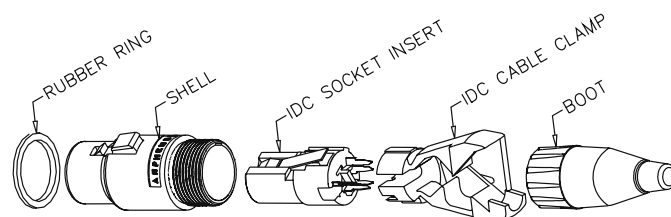
**Options:** Gold plated contacts, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells.

**Part Number Breakdown: Page 17 Specifications: Page 20-21 Assembly Instructions: Page 19**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, IDC contacts, Nickel Finish, IDC Jaws cable clamp	Standard	AC3MI
			Gold Plated Contacts	AC3MI-AU
			Bulk Pack	AC3MI BULK
		XLR 3 pole male, IDC contacts, Black Finish, IDC Jaws cable clamp	Standard	AC3MIB
			Gold Plated Contacts	AC3MIB-AU
			Bulk Pack	AC3MIB BULK
		XLR 3 pole female, IDC contacts, Nickel Finish, IDC Jaws cable clamp	Standard	AC3FI
			Gold Plated Contacts	AC3FI-AU
			Bulk Pack	AC3FI BULK
		XLR 3 pole female, IDC contacts, Black Finish, IDC Jaws cable clamp	Standard	AC3FIB
			Gold Plated Contacts	AC3FIB-AU
			Bulk Pack	AC3FIB BULK

**Note:** Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 21 are followed.

### ISO VIEW OF AC3FI





METAL SHELL TYPE - IDC (SOLDERLESS)

# Amphenol

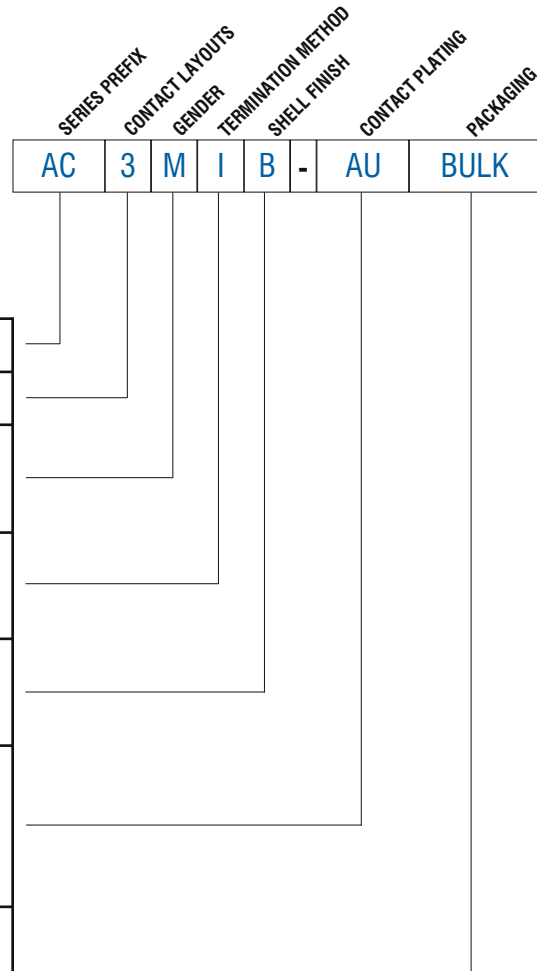
## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - IDC



E. G . **AC3MIB-AU BULK**  
**AC** (Series Prefix), **3** contacts, **M**ale, IDC Contacts, **B**lack Polyester Finish,  
- **AU** (Gold Plated Contacts), **BULK** Packaged.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT</b>	3	=	3 Contact only
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>TERMINATION METHOD</b>	I	=	IDC Contacts
<b>SHELL FINISH</b>	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
<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



**Note:** All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 80 and simply add colour to end of part number. Example: AC3MI - RED

**THERMOPLASTIC SHELL TYPE - IDC (SOLDERLESS)**



The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be quickly and easily assembled without screws or a soldering iron – by hand or portable termination tool. Labour savings of up to 60% in termination time can be achieved.

**Recommended Cable Dimensions: Page 21**

**Features:**

- Thermoplastic Shell
- Available 3 Contact only.
- Insulation Displacement Contacts (IDC - Solderless).
- "Jaws" Cable Retention System.
- 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, Bulk Pack, Coloured Boots / Backshells  
**Part Number Breakdown: Page 18** **Specifications: Page 20-21**  
**Assembly Instructions: Page 19**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, IDC contacts, Thermoplastic shell, IDC Jaws cable clamp	Standard	AC3MCPI
			Gold Plated Contacts	AC3MCPI-AU
			Bulk Pack	AC3MCPI BULK
		XLR 3 pole female, IDC contacts, Thermoplastic shell, IDC Jaws cable clamp	Standard	AC3FCPI
			Gold Plated Contacts	AC3FCPI-AU
			Bulk Pack	AC3FCPI BULK

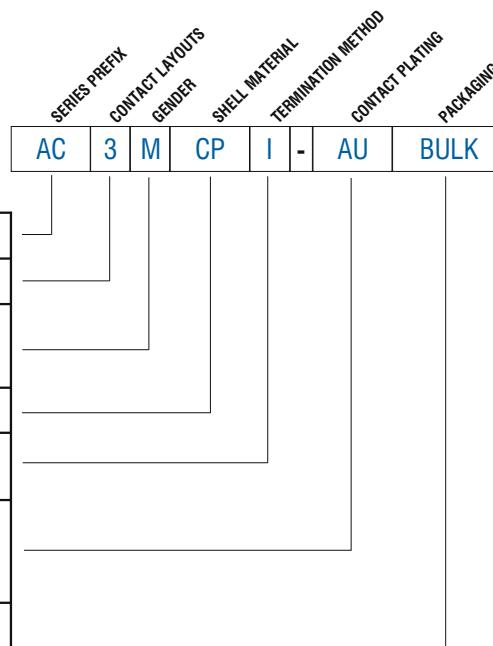
**Note:** Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 21 are followed.

## PART NUMBER BREAKDOWN

### IDC THERMOPLASTIC SHELL TYPE

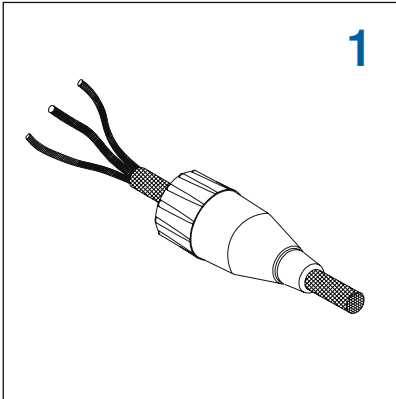
E. G. **AC3MCPI-AU BULK**  
**AC** (Series Prefix), **3** contacts, **Male**, **CP** (Thermoplastic Shell), IDC Contacts,  
**- AU** (Gold Plated Contacts), **BULK** Packaged.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT</b>	3	=	3 Contacts only
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>SHELL MATERIAL</b>	CP	=	Thermoplastic Shell
<b>TERMINATION METHOD</b>	I	=	IDC Contacts
<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



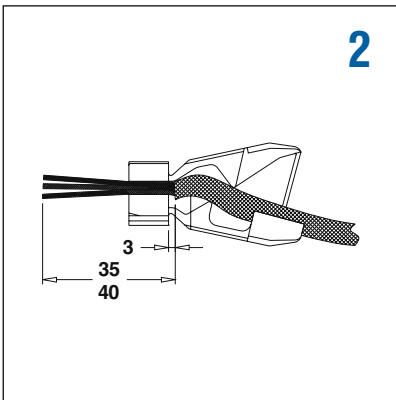
**Note:** All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 80 and simply add colour to end of part number. Example: AC3MCPI - RED

## AC IDC SERIES CABLE ASSEMBLY INSTRUCTIONS



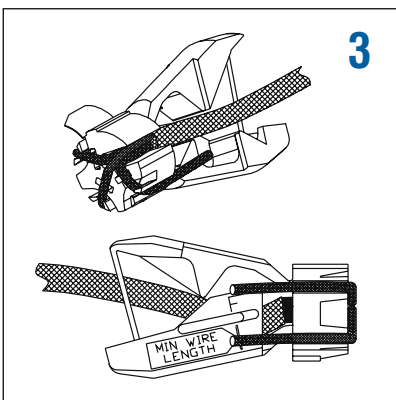
1

Push the cable through the boot assembly and strip the cable back 35 to 40 mm. Twist the shield wire.



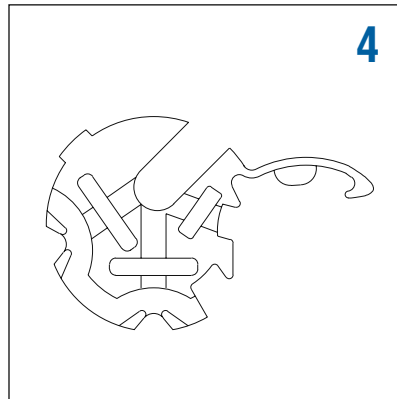
2

Fit the cable into the 'Jaws' cable clamp ensuring that the cable is pushed up to the neck of the clamp within 3mm.



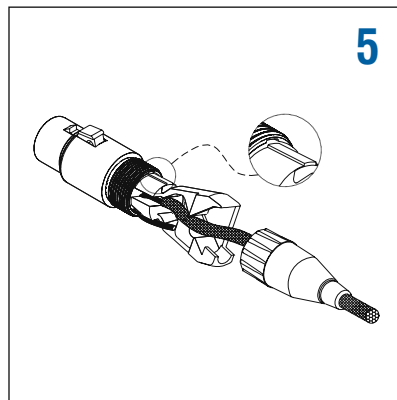
3

Pull back the conductors into their individual wire guidetracks. Note: Two spring fingers in the clamp will hold the conductors in position during subsequent operations. The ends of the two insulated wires must be on or past the minimum wire length mark.



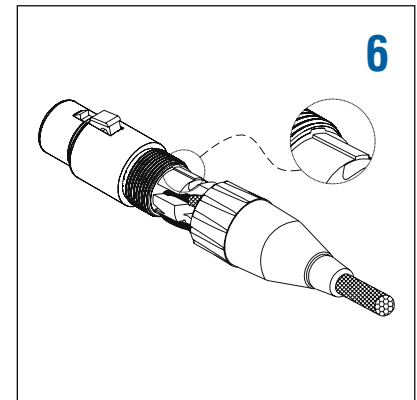
4

For ground protection the twisted shield wire is clipped in place with the ground protect flap.



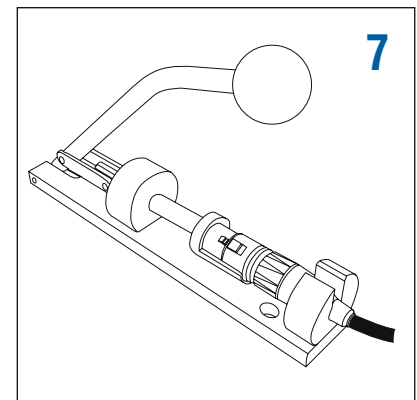
5

Trim back the shield wire, so there are no wires coming out of the flap and fit the 'Jaws' cable clamp into the shell assembly, ensuring the keyways are aligned.



6

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

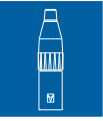


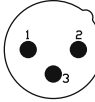
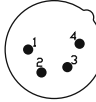
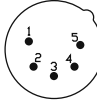
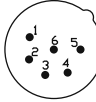
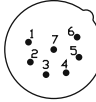
7

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

# Amphenol

## STANDARD DATA AC CABLE CONNECTORS



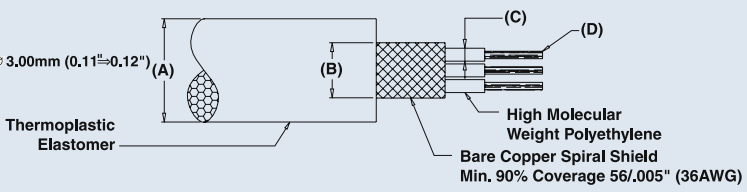
		VALUE				
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	3	4	5	6A	7
	AC Series Contact Arrangements (Front view of pin inserts)					
	Termination	IDC / SOLDER	SOLDER	SOLDER	SOLDER	SOLDER
	Max. Wire Gauge - Stranded wire:					
	IDC	24AWG	N/A	N/A	N/A	N/A
	Solder	14AWG	16AWG	18AWG	18AWG	20AWG
	Flammability rating of insulator plastics and housings	UL94V-0				
Environmental	Complies with RoHS Directive 2002/95/EC					
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS	133V <sup>1)</sup>				
	Test Voltage AC RMS	1400V				
	Current carrying capacity:					
	IDC	1A	N/A	N/A	N/A	N/A
	Solder	15A	10A	7.5A	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)	38g (0.083lb)	38g (0.083lb)
	Weight - Thermoplastic <sup>2)</sup>	18g (0.039lb)	19g (0.041lb)	20g (0.044lb)	20g (0.044lb)	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					
	IDC	Max. Cable O.D. 5.85mm (0.23")				
	Standard solder	3mm to 6.5mm (0.118" to 0.255")				
	Large Solder	6.5mm to 8mm (0.255" to 0.314")				
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.

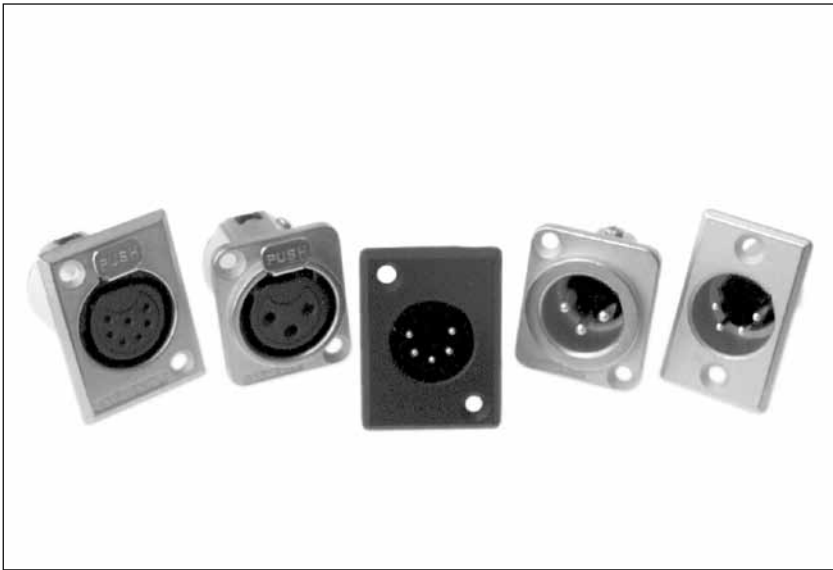
# Amphenol

## STANDARD DATA AC CABLE CONNECTORS

		DETAILS
MATERIALS	Connector shell - Metal	Diecast Zinc Alloy
	Shell finish	Satin nickel or Black polyester
	Connector shell - Thermoplastic	Thermoplastic, UL94V-0 Modified PPE Resin
	Shell finish	Black
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin
	Boot / Backshell	UL94V-0 Modified PPE Resin or Machined Brass
	Finish	Black, other colours available - see page 80
	Cable clamp	
	IDC Socket JAWS	UL94V-0 Modified PPO Resin (Pink)
	IDC Pin JAWS	UL94V-0 Modified PPO Resin (Blue)
	Standard Solder JAWS	UL94V-0 Modified PPO Resin (Black)
	Large Solder JAWS	UL94V-0 Modified PPO Resin (Purple)
	Cable Bushing	Santoprene
	Male Contact	Thermoplastic Polyurethane
	Stamped - IDC / Plating	Phosphor Bronze / Silver or Gold (Optional)
	Stamped - Solder / Plating	Phosphor Bronze / Silver or Gold (Optional)
Machined - Solder / Plating	Brass / Silver or Gold (Optional)	
Female Contact		
Stamped - IDC / Plating	Phosphor Bronze / Tin or Gold (Optional)	
Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)	
Machined - Solder / Plating	Brass / Silver or Gold (Optional)	
IDC RECOMMENDED CABLE DIMENSIONS	 <p>                     A - Cable O.D.: Max. <math>\varnothing</math> 5.85mm (0.23").                      B - Bare Copper Spiral Shield OD <math>\varnothing</math> 2.75 <math>\Rightarrow</math> <math>\varnothing</math> 3.00mm (0.11" <math>\Rightarrow</math> 0.12")                      C - OD <math>\varnothing</math> 1.30 <math>\Rightarrow</math> <math>\varnothing</math> 1.50mm (0.05" <math>\Rightarrow</math> 0.06")                      D - 16/.005" (24 AWG stranded wire)                 </p> <p>                     Thermoplastic Elastomer                      High Molecular Weight Polyethylene                      Bare Copper Spiral Shield                      Min. 90% Coverage 56/.005" (36AWG)                 </p>	



Rev 4 - 12/2009



## 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

### Features

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

### Options

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

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

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

### Ordering Codes

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

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

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

## METAL D TYPE FLANGE - SOLDER AND PCB



### 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 31](#)

**Specifications:** [Page 32](#)

**PCB Footprints:** [Page 33](#)


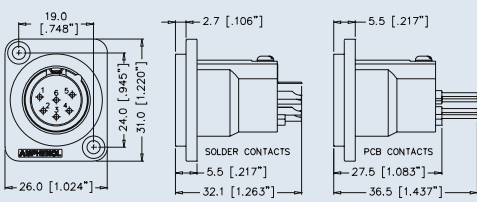


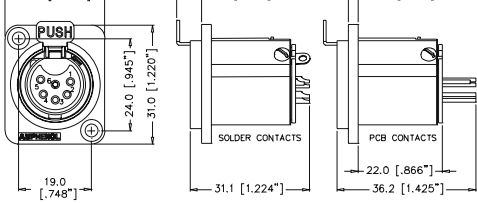


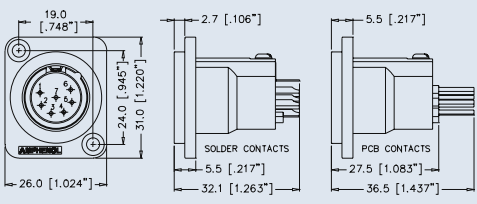


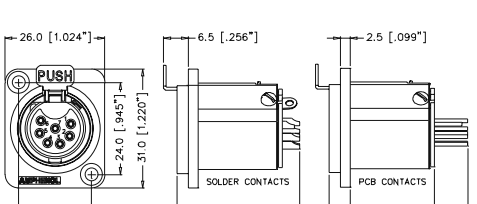


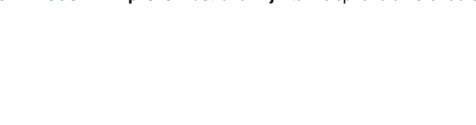

**Panel Cutouts:** [Page 33](#)



PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC3MMDZ
		Gold Plated Contacts	AC3MMDZ-AU	
		XLR 3 pole male, D Flange, Machined contacts, Black Finish	Standard	AC3MMDZB
		Gold Plated Contacts	AC3MMDZB-AU	
		XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	AC3MDZ
		Gold Plated Contacts	AC3MDZ-AU	
		XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Standard	AC3MDZB
		Gold Plated Contacts	AC3MDZB-AU	
		XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC3FDZ
		Gold Plated Contacts	AC3FDZ-AU	
		XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	AC3FDZB
		Gold Plated Contacts	AC3FDZB-AU	



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC4MDZ
				Gold Plated Contacts	AC4MDZ-AU
			XLR 4 pole male, D Flange, Machined contacts, Black Finish	Vertical PCB	AC4MDZV
				Bulk Pack	AC4MDZ BULK
			XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	AC4MDZB
				Gold Plated Contacts	AC4MDZB-AU
			XLR 4 pole male, D Flange, Machined contacts, Black Finish	Vertical PCB	AC4MDZVB
				Bulk Pack	AC4MDZB BULK
			XLR 4 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC4FDZ
				Gold Plated Contacts	AC4FDZ-AU
			XLR 4 pole female, D Flange, Machined contacts, Black Finish	Vertical PCB	AC4FDZV
				Bulk Pack	AC4FDZ BULK
			XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	AC4FDZB
				Gold Plated Contacts	AC4FDZB-AU
			XLR 4 pole female, D Flange, Machined contacts, Black Finish	Vertical PCB	AC4FDZVB
				Bulk Pack	AC4FDZB BULK
			XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC5MDZ
				Gold Plated Contacts	AC5MDZ-AU
			XLR 5 pole male, D Flange, Machined contacts, Black Finish	Vertical PCB	AC5MDZV
				Bulk Pack	AC5MDZ BULK
			XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	AC5MDZB
				Gold Plated Contacts	AC5MDZB-AU
			XLR 5 pole male, D Flange, Machined contacts, Black Finish	Vertical PCB	AC5MDZVB
				Bulk Pack	AC5MDZB BULK
			XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC5FDZ
				Gold Plated Contacts	AC5FDZ-AU
			XLR 5 pole female, D Flange, Machined contacts, Black Finish	Vertical PCB	AC5FDZV
				Bulk Pack	AC5FDZ BULK
			XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	AC5FDZB
				Gold Plated Contacts	AC5FDZB-AU
			XLR 5 pole female, D Flange, Machined contacts, Black Finish	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
				XLR 7 pole male, D Flange, Gold Plated Machined contacts, Black Finish
	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
				XLR 7 pole female, D Flange, Gold Plated Machined contacts, Black Finish
	Vertical PCB	AC7FDZVB		
	Bulk Pack	AC7FDZB BULK		



## METAL P TYPE FLANGE - SOLDER AND PCB




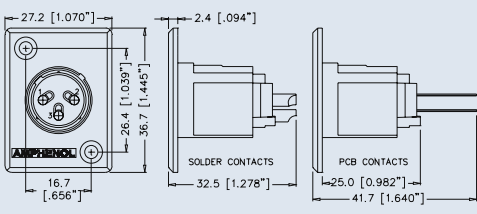

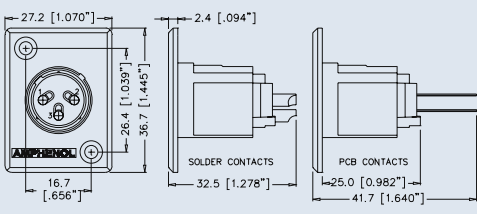

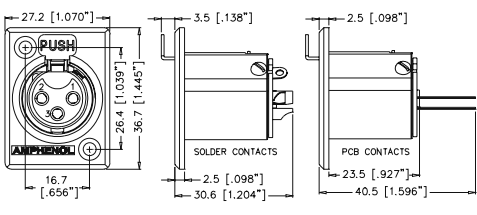

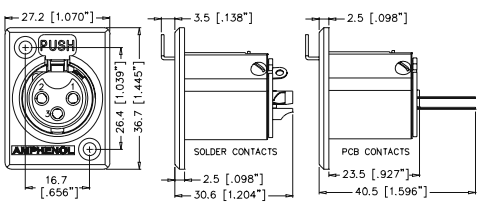

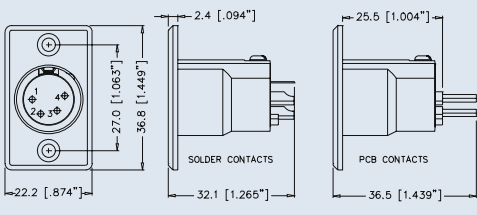

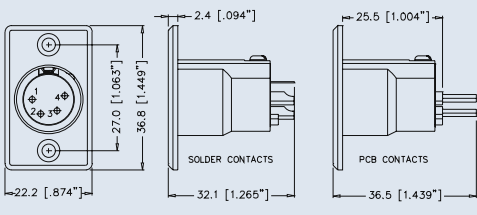

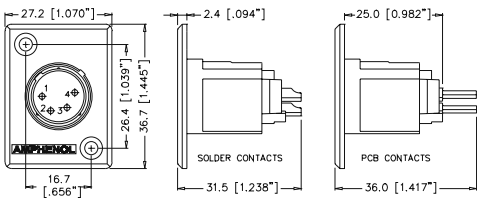

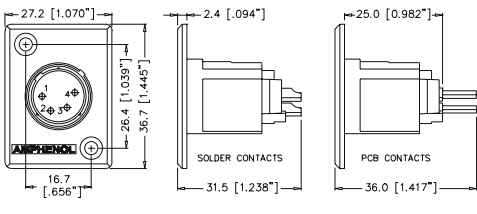
### Features:

- 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.
- Vertical PCB mounting.
- 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.


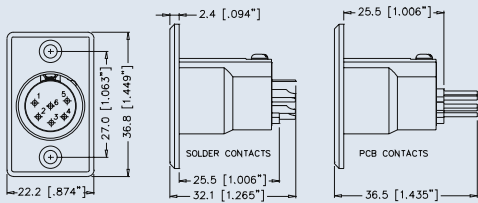

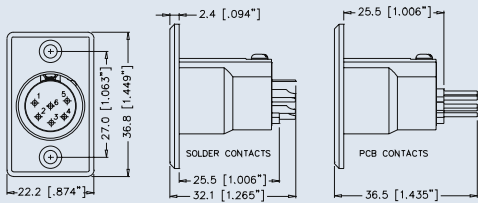

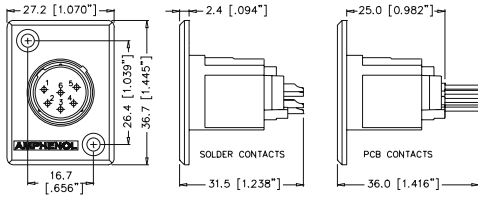

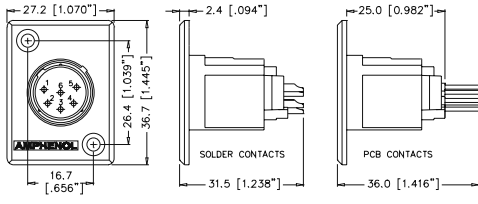

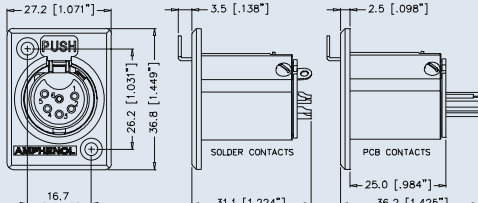

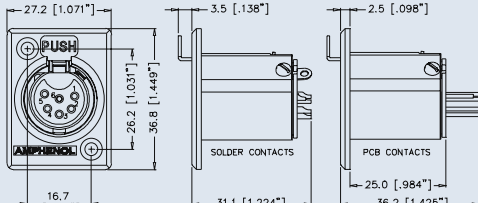

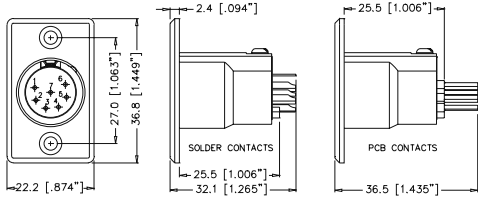

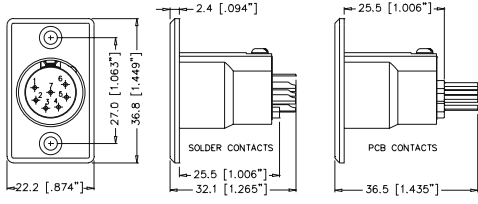
**Part Number Breakdown: Page 31    Specifications: Page 32**  
**PCB Footprints: Page 33    Panel Cutouts: Page 33**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC3MMPNZ
			Gold Plated Contacts	AC3MMPNZ-AU
		XLR 3 pole male, Narrow flange, Machined contacts, Black Finish	Standard	AC3MMPNZB
			Gold Plated Contacts	AC3MMPNZB-AU
		XLR 3 pole male, Narrow flange, Stamped contacts, Nickel Finish	Standard	AC3MPNZ
			Gold Plated Contacts	AC3MPNZ-AU
		XLR 3 pole male, Narrow flange, Stamped contacts, Black Finish	Standard	AC3MPNZB
			Gold Plated Contacts	AC3MPNZB-AU
		XLR 3 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC3MMP
			Gold Plated Contacts	AC3MMP-AU
		XLR 3 pole male, Wide flange, Machined contacts, Black Finish	Standard	AC3MMPB
			Gold Plated Contacts	AC3MMPB-AU
		XLR 3 pole male, Wide flange, Stamped contacts, Nickel Finish	Standard	AC3MMPV
			Gold Plated Contacts	AC3MMPV-AU
		XLR 3 pole male, Wide flange, Stamped contacts, Black Finish	Standard	AC3MMPVB
			Gold Plated Contacts	AC3MMPVB-AU





PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, Wide flange, Stamped contacts, Nickel Finish	Standard	AC3MP
				Gold Plated Contacts	AC3MP-AU
				Vertical PCB	AC3MPV
				Bulk Pack	AC3MP BULK
			XLR 3 pole male, Wide flange, Stamped contacts, Black Finish	Standard	AC3MPB
				Gold Plated Contacts	AC3MPB-AU
				Vertical PCB	AC3MPVB
				Bulk Pack	AC3MPB BULK
			XLR 3 pole female, Wide flange, Stamped contacts, Nickel Finish	Standard	AC3FPZ
				Gold Plated Contacts	AC3FPZ-AU
				Vertical PCB	AC3FPZV
				Bulk Pack	AC3FPZ BULK
			XLR 3 pole female, Wide flange, Stamped contacts, Black Finish	Standard	AC3FPZB
				Gold Plated Contacts	AC3FPZB-AU
				Vertical PCB	AC3FPZVB
				Bulk Pack	AC3FPZB BULK
			XLR 4 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC4MPNZ
				Gold Plated Contacts	AC4MPNZ-AU
				Vertical PCB	AC4MPNZV
				Bulk Pack	AC4MPNZ BULK
			XLR 4 pole male, Narrow flange, Machined contacts, Black Finish	Standard	AC4MPNZB
				Gold Plated Contacts	AC4MPNZB-AU
				Vertical PCB	AC4MPNZVB
				Bulk Pack	AC4MPNZB BULK
			XLR 4 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC4MP
				Gold Plated Contacts	AC4MP-AU
				Vertical PCB	AC4MPV
				Bulk Pack	AC4MP BULK
			XLR 4 pole male, Wide flange, Machined contacts, Black Finish	Standard	AC4MPB
				Gold Plated Contacts	AC4MPB-AU
				Vertical PCB	AC4MPVB
				Bulk Pack	AC4MPB BULK



PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole female, Wide flange, Machined contacts, Nickel Finish	Standard	AC4FPZ
			Gold Plated Contacts	AC4FPZ-AU
		XLR 4 pole female, Wide flange, Machined contacts, Black Finish	Vertical PCB	AC4FPZV
			Bulk Pack	AC4FPZ BULK
		XLR 4 pole female, Wide flange, Machined contacts, Black Finish	Standard	AC4FPZB
			Gold Plated Contacts	AC4FPZB-AU
		XLR 4 pole female, Wide flange, Machined contacts, Black Finish	Vertical PCB	AC4FPZVB
			Bulk Pack	AC4FPZB BULK
		XLR 5 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC5MPNZ
			Gold Plated Contacts	AC5MPNZ-AU
		XLR 5 pole male, Narrow flange, Machined contacts, Black Finish	Vertical PCB	AC5MPNZV
			Bulk Pack	AC5MPNZ BULK
		XLR 5 pole male, Narrow flange, Machined contacts, Black Finish	Standard	AC5MPNZB
			Gold Plated Contacts	AC5MPNZB-AU
		XLR 5 pole male, Narrow flange, Machined contacts, Black Finish	Vertical PCB	AC5MPNZVB
			Bulk Pack	AC5MPNZB BULK
		XLR 5 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC5MP
			Gold Plated Contacts	AC5MP-AU
		XLR 5 pole male, Wide flange, Machined contacts, Black Finish	Vertical PCB	AC5MPV
			Bulk Pack	AC5MP BULK
		XLR 5 pole male, Wide flange, Machined contacts, Black Finish	Standard	AC5MPB
			Gold Plated Contacts	AC5MPB-AU
		XLR 5 pole male, Wide flange, Machined contacts, Black Finish	Vertical PCB	AC5MPVB
			Bulk Pack	AC5MPB BULK
		XLR 5 pole female, Wide flange, Machined contacts, Nickel Finish	Standard	AC5FPZ
			Gold Plated Contacts	AC5FPZ-AU
		XLR 5 pole female, Wide flange, Machined contacts, Black Finish	Vertical PCB	AC5FPZV
			Bulk Pack	AC5FPZ BULK
		XLR 5 pole female, Wide flange, Machined contacts, Black Finish	Standard	AC5FPZB
			Gold Plated Contacts	AC5FPZB-AU
		XLR 5 pole female, Wide flange, Machined contacts, Black Finish	Vertical PCB	AC5FPZVB
			Bulk Pack	AC5FPZB BULK

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		<p>2.4 [.094"]</p> <p>25.5 [1.006"]</p> <p>27.0 [1.063"]</p> <p>36.8 [1.449"]</p> <p>22.2 [.874"]</p> <p>25.5 [1.006"]</p> <p>32.1 [1.265"]</p> <p>36.5 [1.435"]</p>	<p>XLR 6A pole male, Narrow flange, Machined contacts, Nickel Finish</p>	Standard	AC6AMPNZ
Gold Plated Contacts				AC6AMPNZ-AU	
Vertical PCB				AC6AMPNZV	
Bulk Pack				AC6AMPNZ BULK	
		<p>2.4 [.094"]</p> <p>25.5 [1.006"]</p> <p>27.0 [1.063"]</p> <p>36.8 [1.449"]</p> <p>22.2 [.874"]</p> <p>25.5 [1.006"]</p> <p>32.1 [1.265"]</p> <p>36.5 [1.435"]</p>	<p>XLR 6A pole male, Narrow flange, Machined contacts, Black Finish</p>	Standard	AC6AMPNZB
Gold Plated Contacts				AC6AMPNZB-AU	
Vertical PCB				AC6AMPNZBV	
Bulk Pack				AC6AMPNZB BULK	
		<p>2.4 [.094"]</p> <p>25.0 [0.982"]</p> <p>27.2 [1.070"]</p> <p>36.7 [1.445"]</p> <p>26.4 [1.039"]</p> <p>16.7 [.656"]</p> <p>31.5 [1.238"]</p> <p>36.0 [1.416"]</p>	<p>XLR 6A pole male, Wide flange, Machined contacts, Nickel Finish</p>	Standard	AC6AMP
Gold Plated Contacts				AC6AMP-AU	
Vertical PCB				AC6AMPV	
Bulk Pack				AC6AMP BULK	
		<p>2.4 [.094"]</p> <p>25.0 [0.982"]</p> <p>27.2 [1.070"]</p> <p>36.7 [1.445"]</p> <p>26.4 [1.039"]</p> <p>16.7 [.656"]</p> <p>31.5 [1.238"]</p> <p>36.0 [1.416"]</p>	<p>XLR 6A pole male, Wide flange, Machined contacts, Black Finish</p>	Standard	AC6AMPB
Gold Plated Contacts				AC6AMPB-AU	
Vertical PCB				AC6AMPVB	
Bulk Pack				AC6AMPB BULK	
		<p>3.5 [.136"]</p> <p>2.5 [.098"]</p> <p>27.2 [1.071"]</p> <p>36.8 [1.449"]</p> <p>26.2 [1.031"]</p> <p>16.7 [.656"]</p> <p>31.1 [1.224"]</p> <p>36.2 [1.425"]</p>	<p>XLR 6A pole female, Wide flange, Machined contacts, Nickel Finish</p>	Standard	AC6AFPZ
Gold Plated Contacts				AC6AFPZ-AU	
Vertical PCB				AC6AFPZV	
Bulk Pack				AC6AFPZ BULK	
		<p>3.5 [.136"]</p> <p>2.5 [.098"]</p> <p>27.2 [1.071"]</p> <p>36.8 [1.449"]</p> <p>26.2 [1.031"]</p> <p>16.7 [.656"]</p> <p>31.1 [1.224"]</p> <p>36.2 [1.425"]</p>	<p>XLR 6A pole female, Wide flange, Machined contacts, Black Finish</p>	Standard	AC6AFPZB
Gold Plated Contacts				AC6AFPZB-AU	
Vertical PCB				AC6AFPZBV	
Bulk Pack				AC6AFPZB BULK	
		<p>2.4 [.094"]</p> <p>25.5 [1.006"]</p> <p>27.0 [1.063"]</p> <p>36.8 [1.449"]</p> <p>22.2 [.874"]</p> <p>25.5 [1.006"]</p> <p>32.1 [1.265"]</p> <p>36.5 [1.435"]</p>	<p>XLR 7 pole male, Narrow flange, Gold Plated Machined contacts, Nickel Finish</p>	Standard	AC7MPNZ
Vertical PCB				AC7MPNZV	
Bulk Pack				AC7MPNZ BULK	
					<p>2.4 [.094"]</p> <p>25.5 [1.006"]</p> <p>27.0 [1.063"]</p> <p>36.8 [1.449"]</p> <p>22.2 [.874"]</p> <p>25.5 [1.006"]</p> <p>32.1 [1.265"]</p> <p>36.5 [1.435"]</p>
Vertical PCB	AC7MPNZBV				
Bulk Pack	AC7MPNZB BULK				

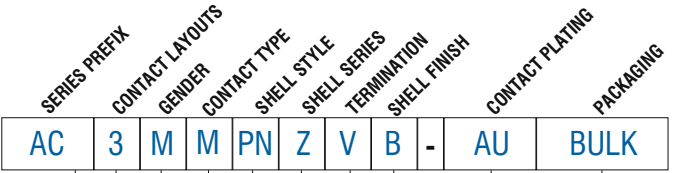


PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 7 pole male, Wide flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7MP
			Vertical PCB	AC7MPV
			Bulk Pack	AC7MP BULK
		XLR 7 pole male, Wide flange, Gold Plated Machined contacts, Black Finish	Standard	AC7MPB
			Vertical PCB	AC7MPBV
			Bulk Pack	AC7MPB BULK
		XLR 7 pole female, Wide flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7FPZ
			Vertical PCB	AC7FPZV
			Bulk Pack	AC7FPZ BULK
		XLR 7 pole female, Wide flange, Gold Plated Machined contacts, Black Finish	Standard	AC7FPZB
			Vertical PCB	AC7FPZVB
			Bulk Pack	AC7FPZB BULK

## 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), **V**ertical Printed Circuit Board, **B**lack Polyester Finish,  
**- AU** (Gold Plated Contacts), **BULK** Packaged.

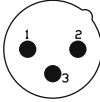
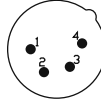
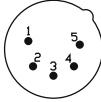
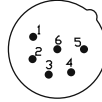
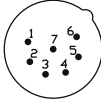


<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUTS</b>	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
	7	=	7 Contacts
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>MACHINED CONTACTS</b>	Blank	=	Stamped Contacts
	M	=	Machined Contacts (Applicable 3 male pin contacts only)
NOTE: 4 - 7 contact connectors have machined contacts as standard. They are not available in stamped contacts.			
<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>TERMINATION</b>	Blank	=	Solder Buckets
	V	=	Vertical Printed Circuit Board
<b>SHELL FINISH</b>	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
<b>CONTACT PLATING</b>	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated
NOTE: 7 Contact is gold plated as standard.			
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed

**Note:** 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 RoHS Directive 2002/95/EC					
<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)					

Rev 2 - 09/2005

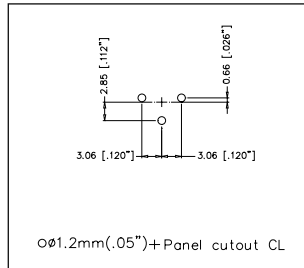
<sup>1)</sup> Not suitable for domestic applications above 50V

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

## AC SERIES CHASSIS METAL "Z"

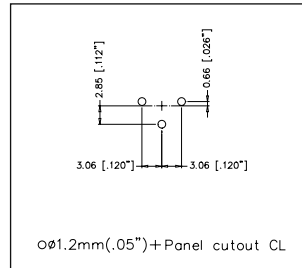
### PCB FOOTPRINTS STRAIGHT (V)

#### CONNECTOR SIDE OF PCB



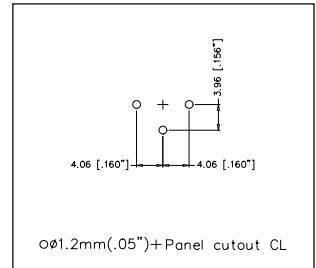
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AC3F\*ZV



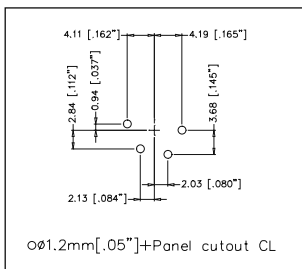
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AC3M\*ZV



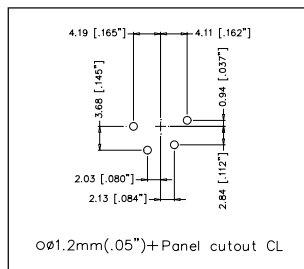
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AC3MM\*ZV



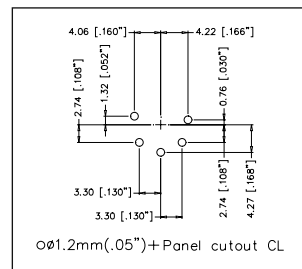
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AC4F\*ZV



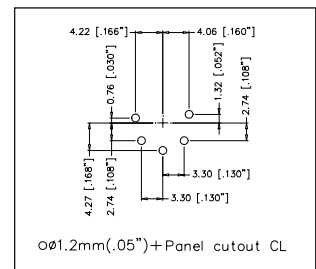
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AC4M\*ZV



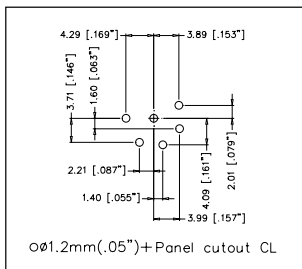
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AC5F\*ZV



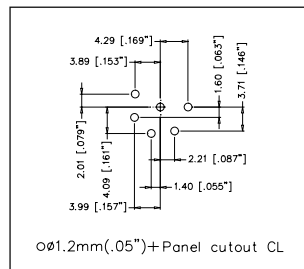
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AC5M\*ZV



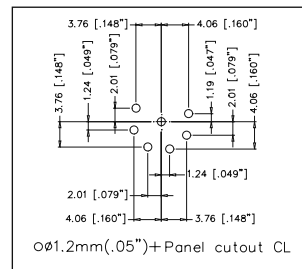
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AC6AF\*ZV



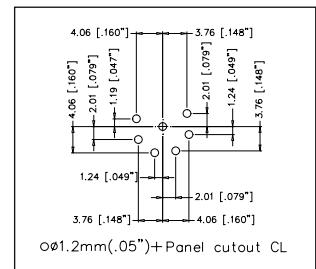
Ø1.2mm(.05")+Panel cutout CL

AC6AM\*ZV



Ø1.2mm(.05")+Panel cutout CL

AC7F\*ZV

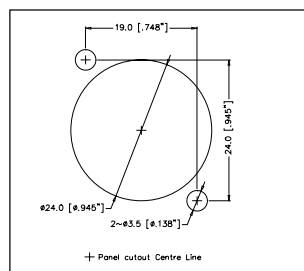


Ø1.2mm(.05")+Panel cutout CL

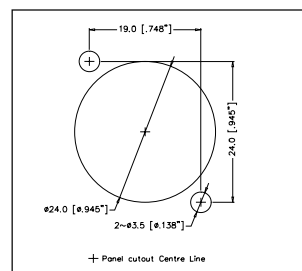
AC7M\*ZV

### PANEL CUTOUT DIMENSIONS

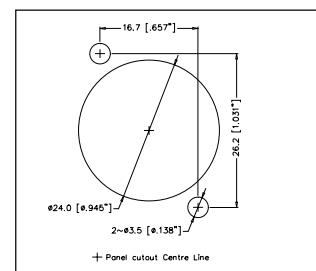
#### FRONT VIEW



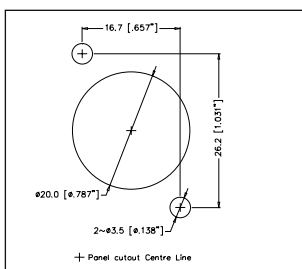
AC\*FDZ



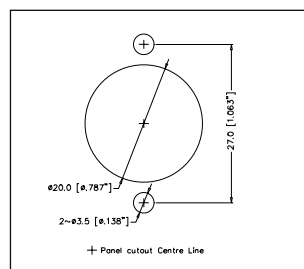
AC\*MDZ



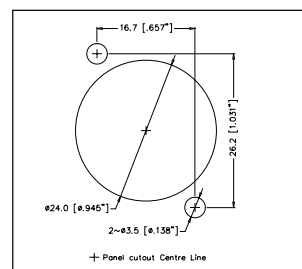
AC\*FPZ



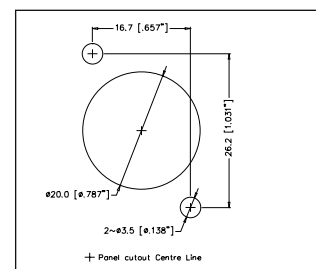
AC\*MP



AC\*MPNZ



AC-PDN-31-XXX



AC-PDN-34-XXX



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

**Part Number Breakdown: Page 44-45 Specifications: Page 47  
PCB Footprints: Page 48 Panel Cutouts: Page 49  
Recommended Fastener: Page 132**




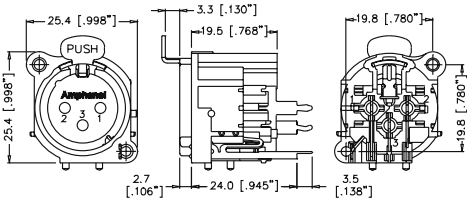

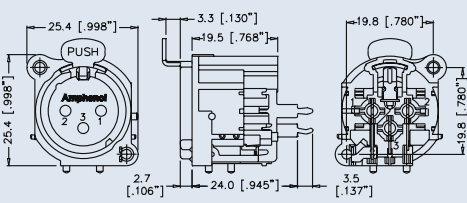

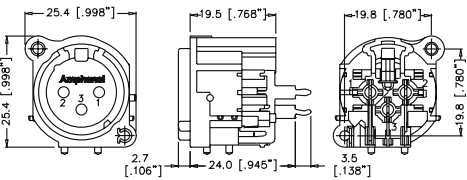

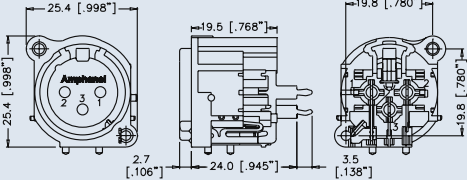

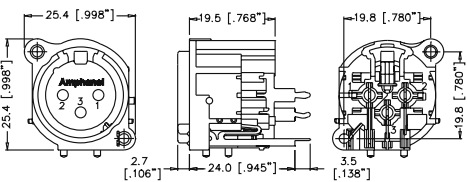

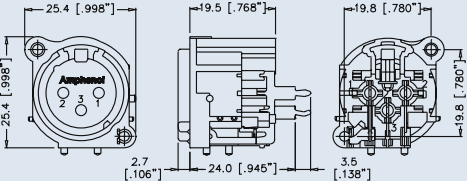
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAH-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAH1-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAH2-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	AC3MAH3-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC3MAH4-AU-B
			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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
		25.4 [ .998" ] 24.0 [ .945" ] 19.5 [ .768" ] 19.8 [ .780" ] 2.7 [ .106" ] 3.5 [ .138" ]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-B
		25.4 [ .998" ] 24.0 [ .945" ] 19.5 [ .768" ] 19.8 [ .780" ] 2.7 [ .106" ] 3.5 [ .138" ]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAV1-AU-B
		25.4 [ .998" ] 24.0 [ .945" ] 19.5 [ .768" ] 19.8 [ .780" ] 2.7 [ .106" ] 3.5 [ .138" ]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-B
		25.4 [ .998" ] 24.0 [ .945" ] 19.5 [ .768" ] 19.8 [ .780" ] 2.7 [ .106" ] 3.5 [ .138" ]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	AC3MAV3-AU-B
		25.4 [ .998" ] 24.0 [ .945" ] 19.5 [ .768" ] 19.8 [ .780" ] 2.7 [ .106" ] 3.5 [ .138" ]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. ground	AC3MAV4-AU-B
		25.4 [ .998" ] 24.0 [ .945" ] 19.5 [ .768" ] 19.8 [ .780" ] 2.7 [ .106" ]	XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MA-AU-B
		25.4 [ .998" ] 24.0 [ .945" ] 19.5 [ .768" ] 19.8 [ .780" ] 2.7 [ .106" ] 3.3 [ .130" ] 12.5 [ .492" ]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-B
		25.4 [ .998" ] 24.0 [ .945" ] 19.5 [ .768" ] 19.8 [ .780" ] 2.7 [ .106" ] 3.3 [ .130" ] 12.5 [ .492" ]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-B



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



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





**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 44-45 **Specifications:** Page 47  
**PCB Footprints:** Page 48 **Panel Cutouts:** Page 49

**Recommended Fastener:** Page 132



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3MBH-AU-B
				Black Finish	AC3MBHB-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBH1-AU-B
				Black Finish	AC3MBHB1-AU-B
			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
				Black Finish	AC3MBHB2-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack  Mating connector shell to Pin 1	Nickel Finish	AC3MBH3-AU-B
				Black Finish	AC3MBHB3-AU-B
			XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3MBHL-AU-B
				Black Finish	AC3MBHBL-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish	AC3MBV-AU-B
				Black Finish	AC3MBVB-AU-B


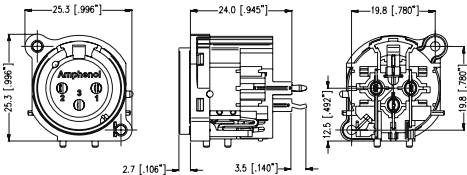

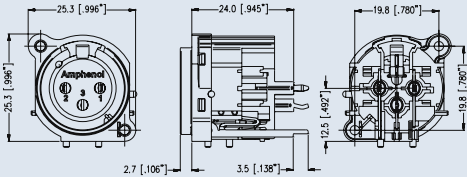

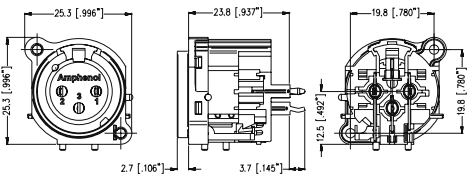


PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis to Mating connector shell	Nickel Finish  Black Finish	AC3MBV1-AU-B  AC3MBVB1-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish  Black Finish	AC3MBV2-AU-B  AC3MBVB2-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack  Mating connector shell to Pin 1	Nickel Finish  Black Finish	AC3MBV3-AU-B  AC3MBVB3-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish  Black Finish	AC3FBH-AU-B  AC3FBHB-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  Black Finish	AC3FBH1-AU-B  AC3FBHB1-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  Black Finish	AC3FBH2-AU-B  AC3FBHB2-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish  Black Finish	AC3FBH3-AU-B  AC3FBHB3-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish  Black Finish	AC3FBHL-AU-B  AC3FBHBL-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 mat- ing connector shell	Nickel Finish  Black Finish	AC3FBHL1-AU-B  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  Black Finish	AC3FBHL2-AU-B  AC3FBHL2-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish  Black Finish	AC3FBHL3-AU-B  AC3FBHL3-AU-B
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish  Black Finish	AC3FBV-AU-B  AC3FBVB-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  Black Finish	AC3FBV1-AU-B  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  Black Finish	AC3FBV2-AU-B  AC3FBV2-AU-B
			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack  Pin 1 to Chassis	Nickel Finish  Black Finish	AC3FBV3-AU-B  AC3FBV3-AU-B
			XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack  No Ground Link	Nickel Finish  Black Finish	AC3FBVL-AU-B  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 Mat- ing connector shell	Nickel Finish	AC3FBVL1-AU-B
				Black 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
				Black 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
				Black Finish	AC3FBVL3-AU-B



## THERMOPLASTIC A - TYPE FLANGE 5 CONTACT




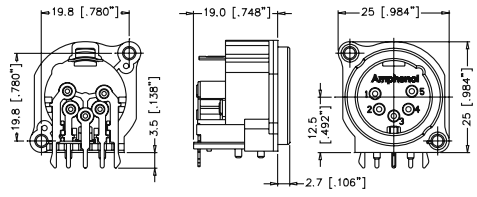

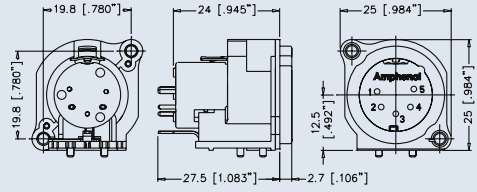

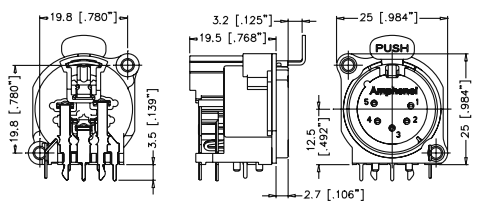

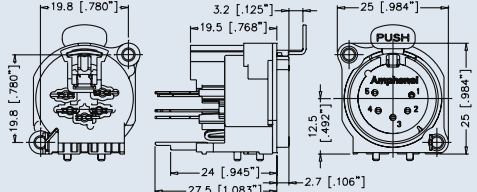
### Features:

- 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 46    **Specifications:** Page 47  
**PCB Footprints:** Page 48    **Panel Cutouts:** Page 49  
**Recommended Fastener:** Page 132



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

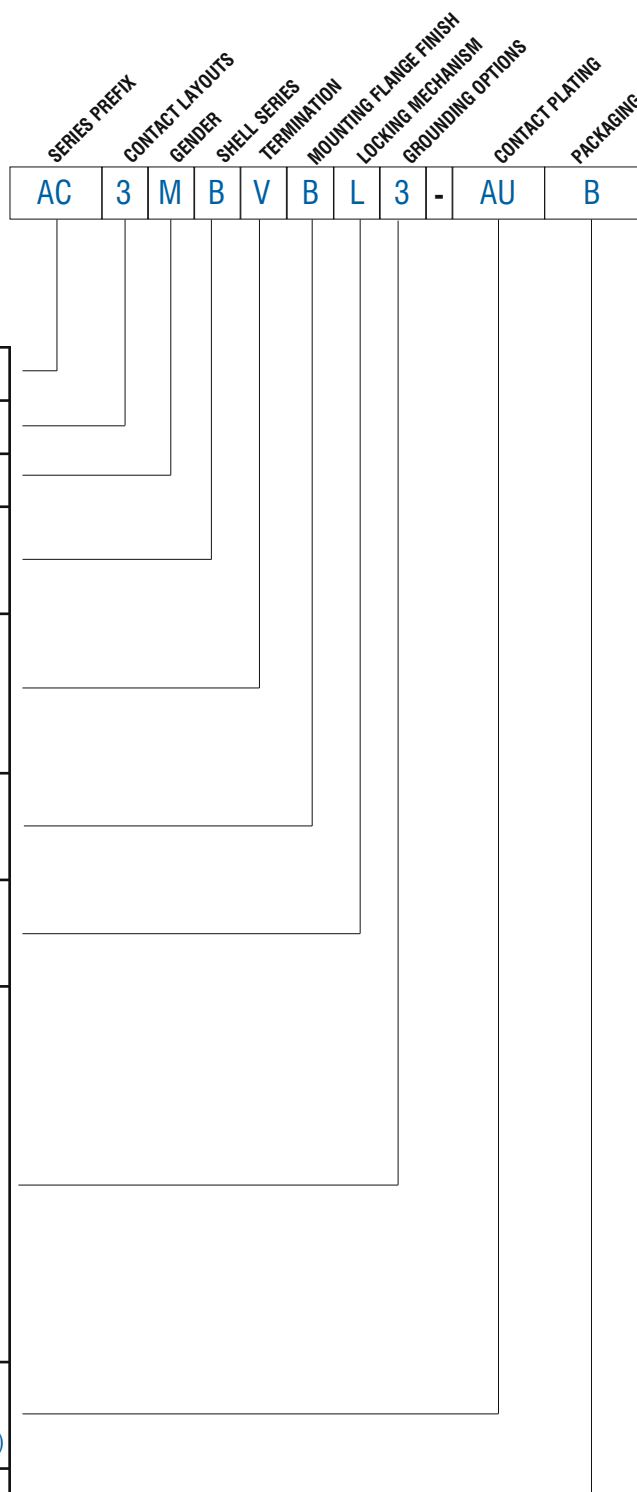
## PART NUMBER BREAKDOWN

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

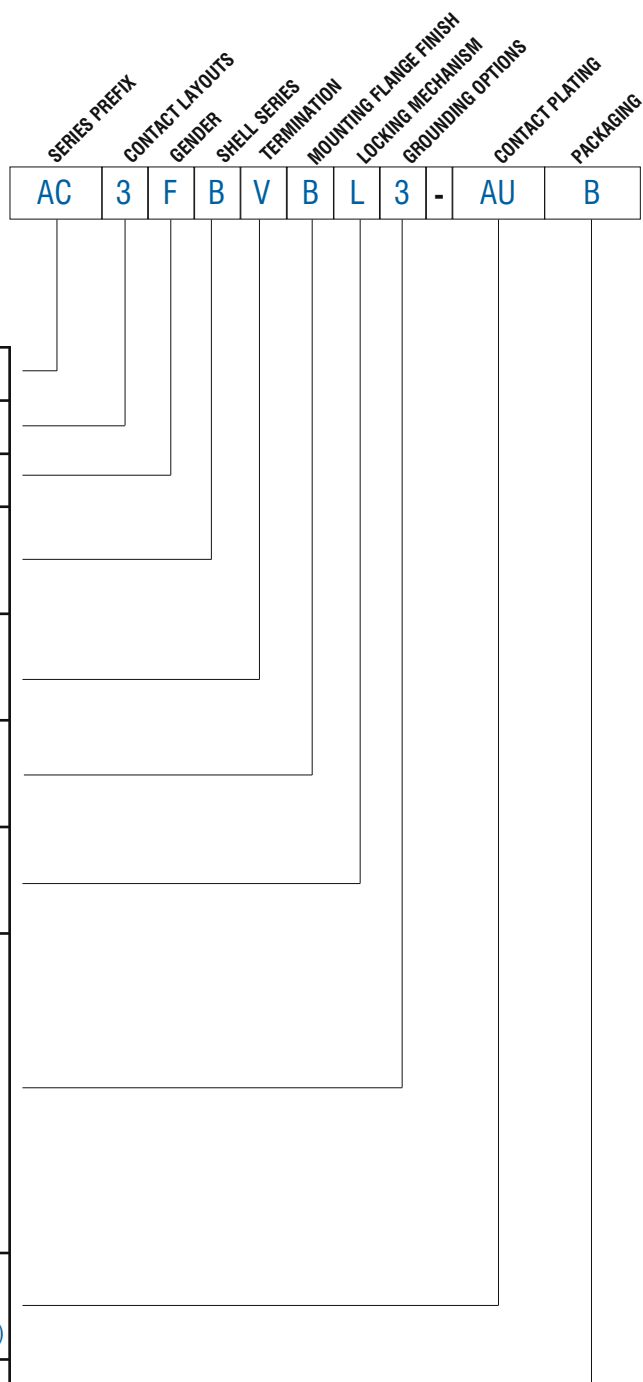
## PART NUMBER BREAKDOWN

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

E. G. **AC3FAVL3-AU B**

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



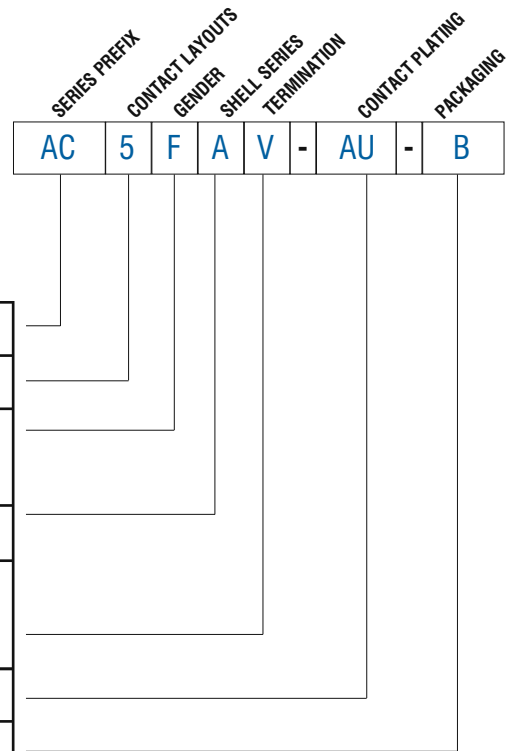
## PART NUMBER BREAKDOWN

AC SERIES A TYPE MALE AND FEMALE - 5 CONTACT





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

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT</b>	5	=	5 Contacts 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	UL94HB
	Environmental	Complies with RoHS Directive 2002/95/EC	
<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 Hole 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 or Black	
	Insulators	PA6.6+25% glass fibre reinforced, UL94V-0	UL94HB
	Male Contact Material	Brass	
	Male Contact Plating	0.0762μm (3μ") gold over 0.762μm (30μ") nickel	
	Female Contact Material	Bronze	
	Female Contact Plating	0.0762μm (3μ") gold over 0.762μm (30μ") nickel	
	Latch lock and Spring	Spring Steel	
	Ground element	Spring Steel	

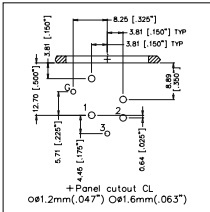
<sup>1)</sup> Not suitable for domestic applications above 50V

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

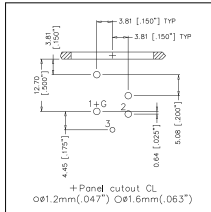
<sup>3)</sup> Refer to page 132



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

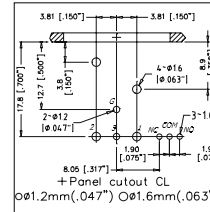


**AC3FAH2  
AC3FBH2  
AC3FBHB2**

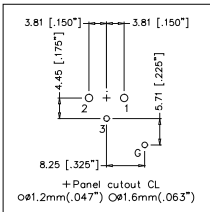


**AC3FAH1  
AC3FAH3  
AC3FBH1  
AC3FBHB1  
AC3FBH3**

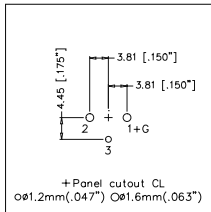
**AC3FBHB3  
AC3FAH  
AC3FBH  
AC3FBHB**



**AC3MAH4SWB**

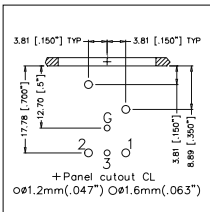


**AC3FAV2  
AC3FBV2  
AC3FBVB2**

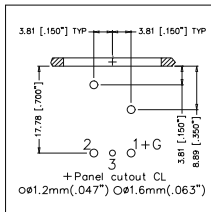


**AC3FAV1  
AC3FAV3  
AC3FBV1  
AC3FBVB1  
AC3FBV3**

**AC3FBVB3  
AC3FAV  
AC3FBV  
AC3FBVB**

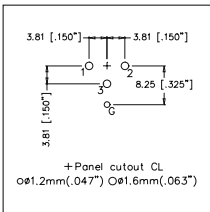


**AC3MAH2  
AC3MAH4  
AC3MBH2  
AC3MBHB2**

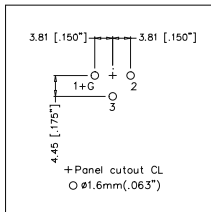


**AC3MAH1  
AC3MAH3  
AC3MBH1  
AC3MBHB1  
AC3MBH3  
AC3MBHB3**

**AC3MAH  
AC3MBH  
AC3MBHB  
AC3MBHL  
AC3MBHBL**



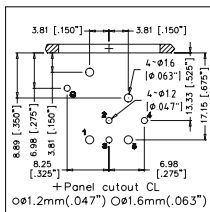
**AC3MAV2  
AC3MAV4  
AC3MBV2  
AC3MBVB2**



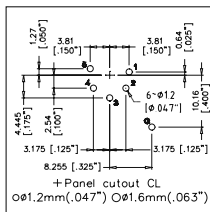
**AC3MAV1  
AC3MAV3  
AC3MBV1  
AC3MBVB1  
AC3MBV3  
AC3MBVB3**

**AC3MBVB3  
AC3MAV  
AC3MBV  
AC3MBVB**

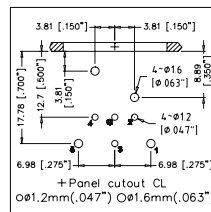
## AC SERIES 5 PIN PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



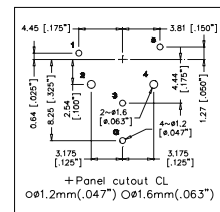
**AC5FAH**



**AC5FAV**



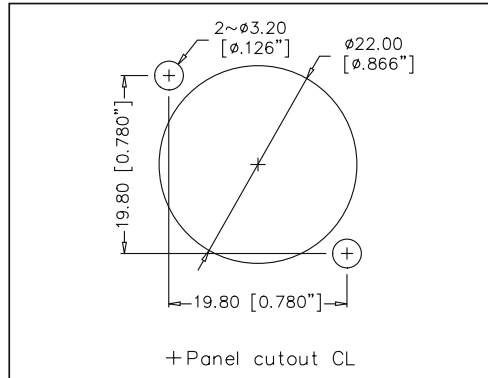
**AC5MAH**



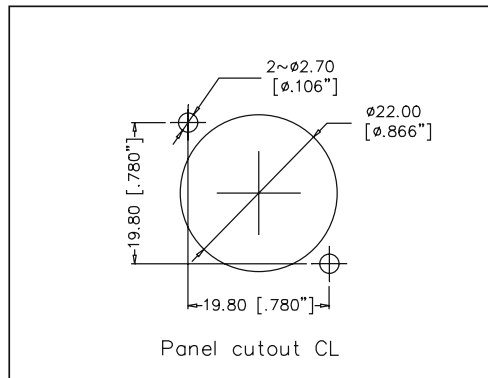
**AC5MAV**

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

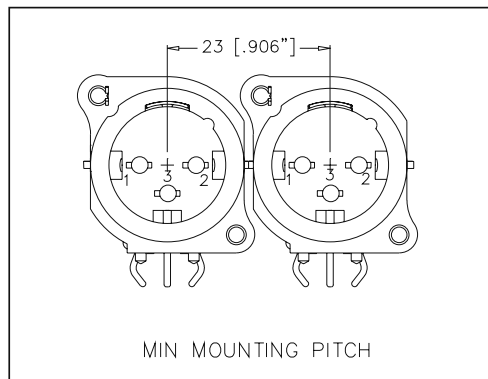
A TYPE



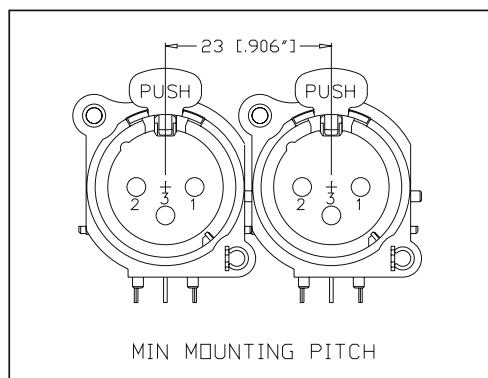
B TYPE



A AND B TYPE MALE  
MOUNTING PITCH



A AND B TYPE FEMALE  
MOUNTING PITCH





## 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. Various configurations are available in either stereo or mono layouts with Vertical, Horizontal Printed Circuit Board or Solder contacts.

### Features

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

### Options

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

### Ordering Codes

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

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

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

## 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 54**


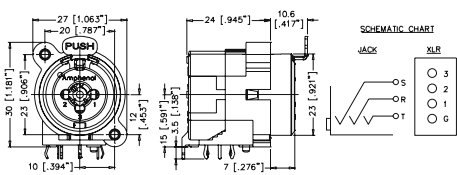

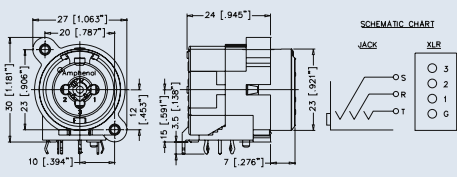

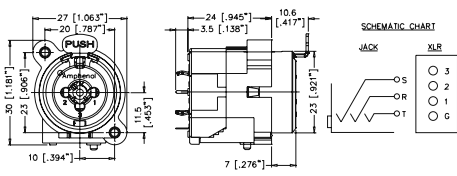

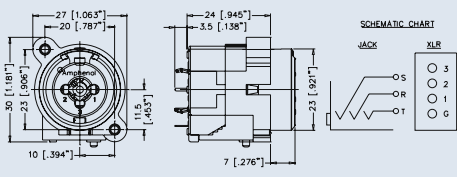

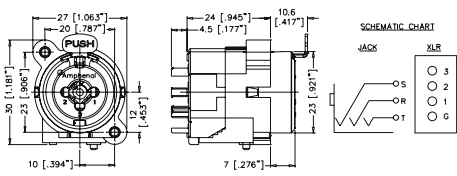

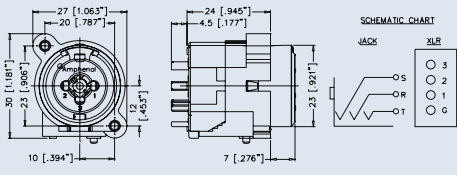

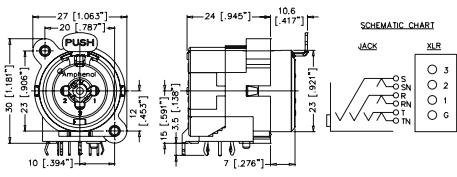

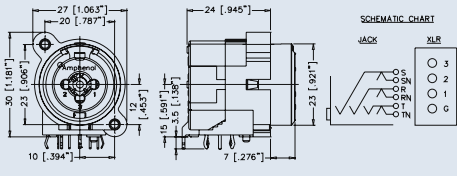
**Specifications: Page 56**

**PCB Footprints: Page 55**

**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"], 23 [.921"], 7 [.276"]	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"], 23 [.921"], 7 [.276"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5HL BULK
		27 [1.063"], 20 [0.787"], 30 [1.181"], 23 [0.906"], 10 [.394"], 12 [.472"], 24 [.945"], 5.5 [0.217"], 10.6 [.417"], 23 [.921"], 7 [.276"]	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"], 5.5 [0.217"], 23 [.921"], 7 [.276"]	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"], 4.5 [0.177"], 10.6 [.417"], 23 [.921"], 7 [.276"]	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"], 4.5 [0.177"], 23 [.921"], 7 [.276"]	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


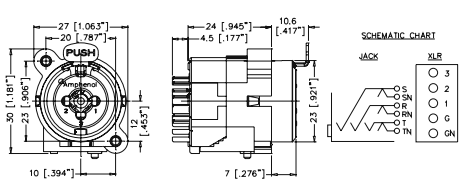

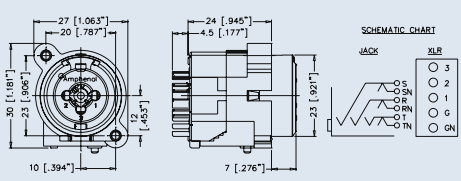

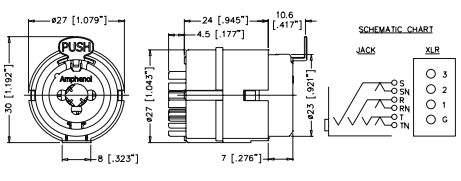
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.472] 24 [.945] 3.5 [.138] 10.6 [.417] 7 [.276] 23 [.921]	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9V BULK
		27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.472] 24 [.945] 3.5 [.138] 7 [.276] 23 [.921]	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9VL BULK
		27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.472] 24 [.945] 4.5 [.177] 7 [.276] 23 [.921]	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Latching	ACJC9S BULK
		27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.472] 24 [.945] 4.5 [.177] 7 [.276] 23 [.921]	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC9SL BULK
		27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.472] 15 [.591] 24 [.945] 3.5 [.138] 10.6 [.417] 7 [.276] 23 [.921]	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10H BULK
		27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.472] 15 [.591] 24 [.945] 3.5 [.138] 7 [.276] 23 [.921]	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10HL BULK
		27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.472] 24 [.945] 3.5 [.138] 10.6 [.417] 7 [.276] 23 [.921]	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10V BULK
		27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.472] 24 [.945] 4.5 [.177] 7 [.276] 23 [.921]	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



# Amphenol

AC SERIES CHASSIS CONNECTORS

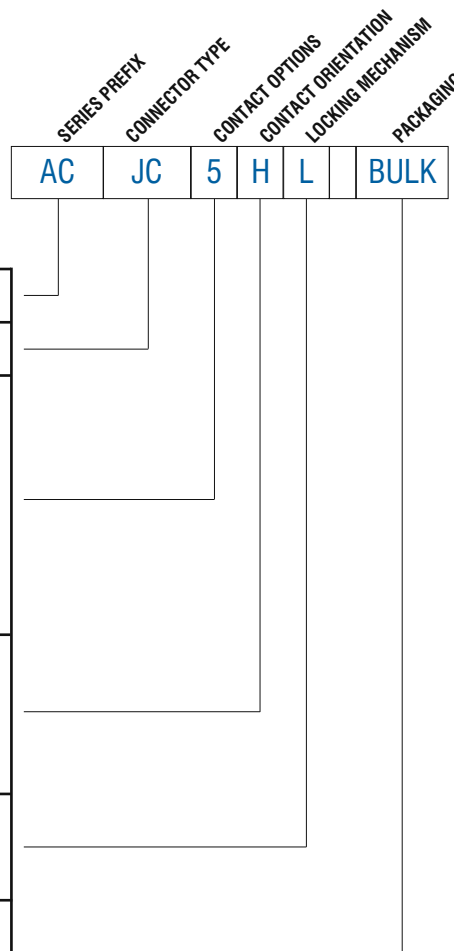
**THERMOPLASTIC C TYPE SERIES**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Latching	ACJC10S BULK
			XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC10SL BULK
			XLR 3 pole female receptacle with 1/4" jack, Solder Contacts, Overmoldable Connector Housing	Latching and Non-latching options available	ACJC9M BULK

## PART NUMBER BREAKDOWN

### AC SERIES THERMOPLASTIC C TYPE

E. G. **ACJC5HL BULK**  
**AC** (Series Prefix), **JC** Jack/Connector XLR, **5** Mono, **H** Horizontal 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>CONTACT/HOUSING TYPE</b>	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
	S	=	Solder Contacts
	M	=	Overmoldable Connector Housing
<b>LOCKING MECHANISM</b>	Blank	=	Latching
	L	=	Latchless
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed





## STANDARD DATA C TYPE CHASSIS RECEPTACLES

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	5, 6, 9 or 10
	Termination	Printed Circuit Board (PCB) or Solder Bucket
	Flammability	UL 94HB
<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**	14g (0.030lb)
	Retention Spring separating force	≥20N
	Mounting Hole 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 + 20% glass fibre reinforced, UL 94HB
	Shell Finish	Black
	Insulators	PA6.6 + 20% glass fibre reinforced, UL 94HB
	XLR Contact	
	Material	Bronze
	Plating	Gold over Nickel plated
	Jack Contact	
	Material	Brass
	Plating	Silver over Copper plated
Latch lock and Spring	Nickel Plated	
Ground element	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 3-12/2009



## AC SERIES XLR THERMOPLASTIC CHASSIS MOUNT CONNECTORS

This receptacle is manufactured from glass filled UL94V-0 PBT Resin, and provides a lower cost alternative to the 'Z' series metal shell. Available in the small "D" or larger "P" housing or the dual versions featuring two connectors within a single housing. A positive latch lock system secures the mating cable connector. Manufactured to comply with IEC 268-12 and AES 14-1992 standards. CSA File Number 68598

### Features

- Thermoplastic Shell.
- The "D" size housing can be either front or rear mounted using the same panel cutout.
- The "P" size housing is the original front mounting XLR connector.
- Dual versions provide two connectors in the one shell.
- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- Solder cup or Insulation Displacement Contact (IDC) as well as Vertical or Horizontal PCB versions are available.
- Latching and Non-latching versions available.
- Available in 3 contact arrangements only.
- Compatible with all other XLR brands.

### Options

- Solder Bucket termination
- Insulation Displacement Contacts (IDC)
- Vertical PCB contacts
- Horizontal PCB contacts
- Gold, Silver or Tin Plated Contacts
- Bulk Packaging
- Single Bag packs
- Cost effective stamped contacts
- Latching or Non-latching.

### 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:**

- Thermoplastic shell.
- D type Flange.
- Solder Bucket connections.
- Vertical or Horizontal PCB mounting.
- Stamped contacts.
- Leading first mate last break socket contact.
- Positive latch lock system.
- Coloured housings available as specials.

**Options:** Solder Buckets, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold Plated Contacts, Machined Contacts.

**Part Number Breakdown: Page 59 Specifications: Page 65  
PCB Footprints: Page 66 Panel Cutouts: Page 66**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, D Flange, Thermoplastic shell, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MDP AC3MDP BULK AC3MDPL AC3MDPL BULK
			XLR 3 pole male, D Flange, Airtight Thermoplastic shell, Machined Contacts, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MMDP AC3MMDP BULK AC3MMDPL AC3MMDPL BULK
			XLR 3 pole female, D Flange, Thermoplastic shell, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FDP AC3FDP BULK AC3FDPL AC3FDPL BULK
			XLR 3 pole male, D Flange, Thermoplastic shell, Horizontal PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MDPH AC3MDPH BULK AC3MDPHL AC3MDPHL BULK
			XLR 3 pole female, D Flange, Thermoplastic shell, Horizontal PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FDPH AC3FDPH BULK AC3FDPHL AC3FDPHL BULK
			XLR 3 pole male, D Flange, Thermoplastic shell, Vertical PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MDPV AC3MDPV BULK AC3MDPVL AC3MDPVL BULK
			XLR 3 pole female, D Flange, Thermoplastic shell, Vertical PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FDPV AC3FDPV BULK AC3FDPVL AC3FDPVL BULK

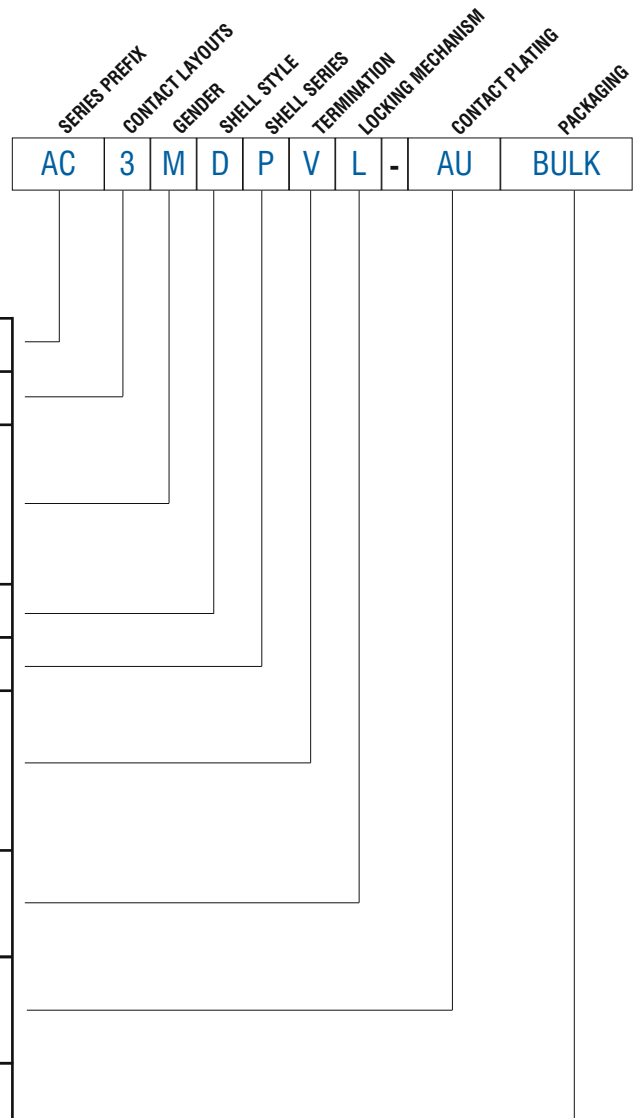
## PART NUMBER BREAKDOWN

### THERMOPLASTIC D TYPE FLANGE

E. G. **AC3MDPVL-AU BULK**

**AC** (Series Prefix), **3** contacts, **Male**, **D** (Small Shell), **P** (Thermoplastic Chassis series) Vertical Printed Circuit Board, **Latchless** - **AU** (Gold Plated Contacts), **Bulk** Packaged.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT</b>	3	=	3 Contacts only
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
	MM	=	Male Machined Contacts
<b>SHELL STYLE</b>	D	=	Small Shell
<b>SHELL SERIES</b>	P	=	Thermoplastic Chassis Series
<b>TERMINATION</b>	Blank	=	Solder Buckets
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
<b>LOCKING MECHANISM</b>	Blank	=	Latching
	L	=	Latchless (Non-Latching)
<b>CONTACT PLATING</b>	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed





**Features:**

- Thermoplastic Shell.
- P Type Flange.
- Solder Bucket connections.
- Vertical or Horizontal PCB mounting.
- Stamped contacts.
- Leading first mate last break socket contact.
- Positive latch lock system.
- Coloured housings available as specials.

**Options:** Solder Buckets, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold Plated Contacts.

**Part Number Breakdown: Page 61 Specifications: Page 65**  
**PCB Footprints: Page 66 Panel Cutouts: Page 66**

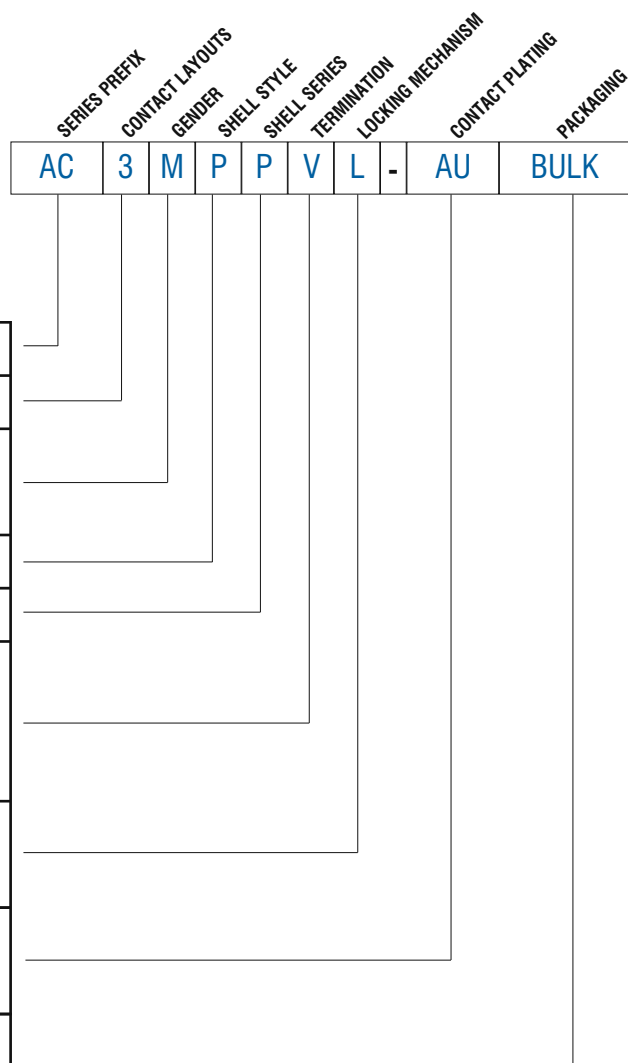
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		16.6 [.654"] 2.3 [0.091"] 26.0 [1.024"] 36.8 [1.449"] 27.0 [1.063"] 2-ø3.3 (ø.131") CSK 90°TD ø5.7(ø0.224") ø23.2 (ø.913") 6.2 [2.44"] 5.0 [1.97"] 21.8 [8.58"]	XLR 3 pole male, Wide Flange, Thermoplastic shell, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MPP AC3MPP BULK AC3MPPL AC3MPPL BULK
		16.6 [.654"] 7.0 [2.77"] 2.3 [0.091"] 26.0 [1.024"] 36.8 [1.449"] 27.0 [1.063"] 2-ø3.3 (ø.131") CSK 90°TD ø5.7(ø0.224") ø23.2 (ø.913") 6.4 [2.52"] 5.0 [1.97"] 21.8 [8.58"]	XLR 3 pole female, Wide Flange, Thermoplastic shell, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FPP AC3FPP BULK AC3FPPL AC3FPPL BULK
		16.6 [.654"] 2.3 [0.091"] 26.0 [1.024"] 36.8 [1.449"] 27.0 [1.063"] ø23.2 (ø.913") 12.2 [4.80"] 2.7 [1.06"] 21.6 [8.50"]	XLR 3 pole male, Wide Flange, Thermoplastic shell, Horizontal PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MPPH AC3MPPH BULK AC3MPPHL AC3MPPHL BULK
		16.6 [.654"] 7.0 [2.77"] 2.3 [0.091"] 26.0 [1.024"] 36.8 [1.449"] 27.0 [1.063"] ø23.2 (ø.913") 4.0 [1.57"] 12.2 [4.80"] 2.7 [1.06"] 21.6 [8.50"] 6.2 [2.42"]	XLR 3 pole female, Wide Flange, Thermoplastic shell, Horizontal PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FPPH AC3FPPH BULK AC3FPPHL AC3FPPHL BULK
		16.6 [.654"] 2.3 [0.091"] 26.0 [1.024"] 36.8 [1.449"] 27.0 [1.063"] ø23.2 (ø.913") 15.7 [6.17"] 5.0 [1.97"] 21.8 [8.58"]	XLR 3 pole male, Wide Flange, Thermoplastic shell, Vertical PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MPPV AC3MPPV BULK AC3MPPVL AC3MPPVL BULK
		16.6 [.654"] 7.0 [2.77"] 2.3 [0.091"] 26.0 [1.024"] 36.8 [1.449"] 27.0 [1.063"] ø23.2 (ø.913") 5.2 [2.06"] 15.7 [6.17"] 5.0 [1.97"] 37.5 [1.476"]	XLR 3 pole female, Wide Flange, Thermoplastic shell, Vertical PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FPPV AC3FPPV BULK AC3FPPVL AC3FPPVL BULK

## PART NUMBER BREAKDOWN

### THERMOPLASTIC P TYPE FLANGE

E. G. **AC3MPPVL-AU BULK**  
**AC** (Series Prefix), **3** contacts, **M**ale, **P** (Large Shell), **P** (Thermoplastic Chassis series)  
 Vertical Printed Circuit Board, **L**atchless - **AU** (Gold Plated Contacts), **BULK** Packaged.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT</b>	3	=	3 Contacts Only
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>SHELL STYLE</b>	P	=	Large Shell with wide flange
<b>SHELL SERIES</b>	P	=	Thermoplastic Chassis Series
<b>TERMINATION</b>	Blank	=	Solder Buckets
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
<b>LOCKING MECHANISM</b>	Blank	=	Latching
	L	=	Latchless (Non-Latching)
<b>CONTACT PLATING</b>	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed



## THERMOPLASTIC TYPE - IDC (SOLDERLESS)



The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be quickly and easily assembled without screws or a soldering iron – by hand. Labour savings of up to 60% in termination time can be achieved.


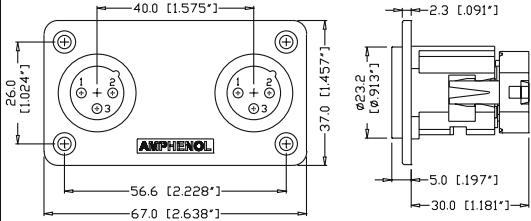

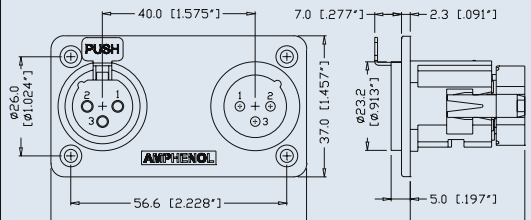

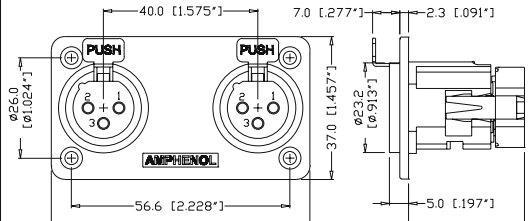
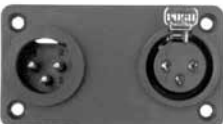
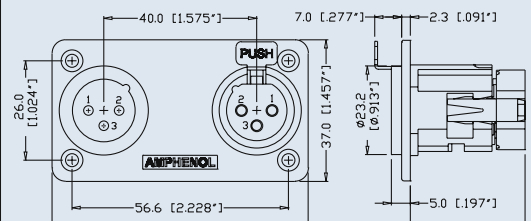
**Recommended Cable Specifications: Page 65**

**Features:**

- Thermoplastic Shell.
- Optional “D”, “P” or Dual Housing flange sizes.
- Insulation Displacement Contacts (IDC)
- Stamped contacts.
- Leading first mate last break socket contact.
- Positive latch lock system.
- Coloured housings available as specials.

**Options:** Gold plated contacts, Bulk Pack, Latching or Non-latching  
**Part Number Breakdown: Page 64**    **Specifications: Page 65**  
**Assembly Instructions: Page 67**    **Panel Cutouts: Page 66**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, D Flange, IDC contacts, Thermoplastic shell	Standard	AC3MDPI
				Bulk Pack	AC3MDPI BULK
				Non-Latching	AC3MDPIL
				Non-Latching Bulk	AC3MDPIL BULK
			XLR 3 pole female, D Flange, IDC contacts, Thermoplastic shell	Standard	AC3FDPI
				Bulk Pack	AC3FDPI BULK
				Non-Latching	AC3FDPIL
				Non-Latching Bulk	AC3FDPIL BULK
			XLR 3 pole male, Wide Flange, IDC contacts, Thermoplastic shell	Standard	AC3MPPI
				Bulk Pack	AC3MPPI BULK
				Non-Latching	AC3MPPI L
				Non-Latching Bulk	AC3MPPI L BULK
			XLR 3 pole female, Wide Flange, IDC contacts, Thermoplastic shell	Standard	AC3FPPI
				Bulk Pack	AC3FPPI BULK
				Non-Latching	AC3FPPI L
				Non-Latching Bulk	AC3FPPI L BULK

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male + 3 pole male, Dual Flange, IDC contacts, Thermoplastic shell	Latching Non-Latching	AC3M3MPPI AC3M3MPFIL
		XLR 3 pole female + 3 pole male, Dual Flange, IDC contacts, Thermoplastic shell	Latching Non-Latching	AC3F3MPPI AC3F3MPFIL
		XLR 3 pole female + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching Non-Latching	AC3F3FPPI AC3F3FPFIL
		XLR 3 pole male + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching Non-Latching	AC3M3FPPI AC3M3FPFIL



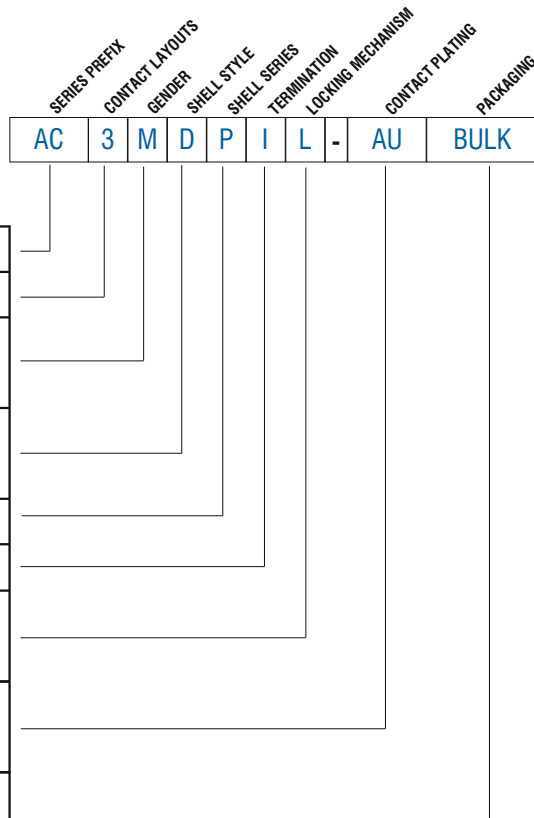


## PART NUMBER BREAKDOWN

### IDC D AND P THERMOPLASTIC CHASSIS TYPE

E. G. **AC3MDPIL-AU BULK**  
**AC** (series prefix), **3** contacts, **Male**, **D** Flange, Plastic Shell, IDC, Latchless,  
**- AU** (Gold Plated Contacts), **BULK** Packaged.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT</b>	3	=	3 Contacts only
<b>GENDER</b>	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
<b>SHELL STYLE</b>	D	=	D Flange
	P	=	P Flange
<b>SHELL SERIES</b>	P	=	Thermoplastic Chassis Series
<b>TERMINATION</b>	I	=	IDC Termination
<b>LOCKING MECHANISM</b>	Blank	=	Latching
	L	=	Latchless
<b>CONTACT PLATING</b>	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed

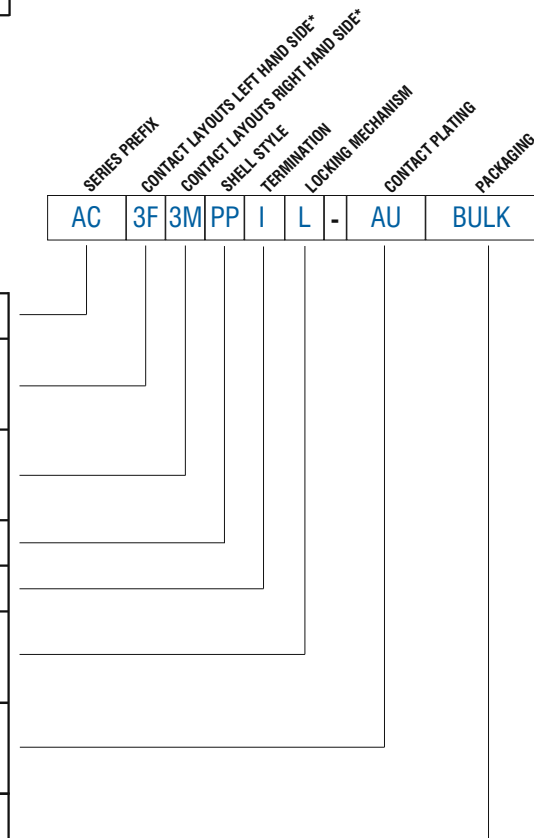


## PART NUMBER BREAKDOWN

### IDC DUAL THERMOPLASTIC CHASSIS TYPE


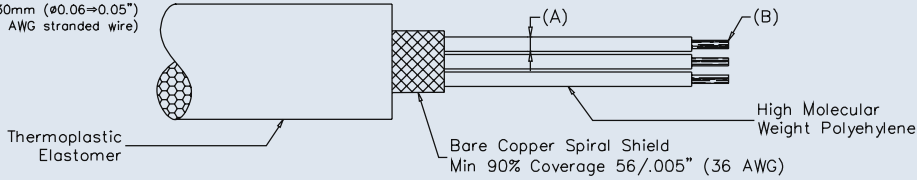
E. G. **AC3F3MPPIL-AU BULK**  
**AC** (series prefix), **3F**Female, **3M**Male, **PP** (Dual Thermoplastic Chassis series), IDC,  
 Latchless, **- AU** (Gold Plated Contacts), **BULK** Packaged.

<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT LAYOUT LEFT HAND SIDE<sup>3)</sup></b>	3F	=	3 Female Socket Contacts only
	3M	=	3 Male Pin Contacts only
<b>CONTACT LAYOUT RIGHT HAND SIDE<sup>3)</sup></b>	3F	=	3 Female Socket Contacts
	3M	=	3 Male Pin Contacts
<b>SHELL STYLE</b>	PP	=	Dual Thermoplastic Chassis Series
<b>TERMINATION</b>	I	=	IDC Termination
<b>LOCKING MECHANISM</b>	Blank	=	Latching
	L	=	Latchless
<b>CONTACT PLATING</b>	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed



<sup>3)</sup> Viewed from front of connector.

## STANDARD DATA AC CHASSIS - THERMOPLASTIC

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	3
	AC Series Contact Arrangements (Front view of pin inserts)	
	Termination	Solder / IDC / Printed Circuit Board (PCB)
	Wire Gauge - Stranded wire:	
	IDC	24AWG
	Solder	12AWG
	Printed Circuit Board (PCB)	N/A
	Flammability	UL94V-0
Environmental	Complies with RoHS Directive 2002/95/EC	
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS	133V <sup>1)</sup>
	Test Voltage AC RMS	1400V
	Current carrying capacity:	
	IDC	1A
	Solder	15A
	Printed Circuit Board (PCB)	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 <sup>2)</sup>	14g - (0.030lb)
	Mechanical Operations	1000 mating cycles
<b>MATERIALS</b>	Connector Shell - Thermoplastic	Thermoplastic, ULV94V-0 Modified PPE Resin
	Shell Finish	Black, other colours available - contact factory
	Insulators	ULV94V-0 PBT Resin or Modified PPE Resin
	Male Contact	
	Stamped IDC-Material/Plating	Phosphor Bronze / Silver or Gold (optional)
	Stamped Solder and PCB-Material/Plating	Phosphor Bronze / Silver or Gold (optional)
Female Contact		
Stamped IDC-Material/Plating	Phosphor Bronze / Tin or Gold (optional)	
Stamped Solder and PCB-Material/Plating	Phosphor Bronze / Tin or Gold (optional)	
<b>IDC RECOMMENDED CABLE DIMENSIONS</b>	A - OD $\phi 1.50 \Rightarrow 1.30\text{mm}$ ( $\phi 0.06 \Rightarrow 0.05''$ ) B - $16/.005''$ (24 AWG stranded wire)	
		Thermoplastic Elastomer Bare Copper Spiral Shield Min 90% Coverage 36/.005" (36 AWG) High Molecular Weight Polyethylene

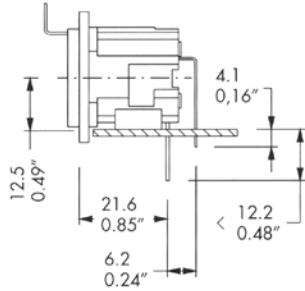
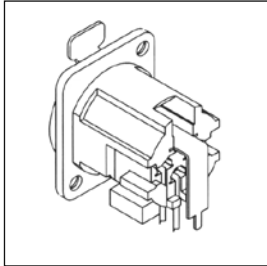
<sup>1)</sup> Not suitable for domestic applications above 50V

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

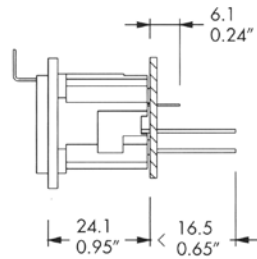
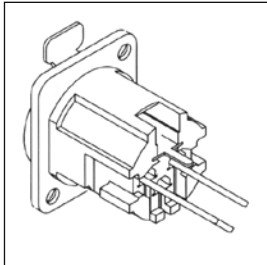
## AC SERIES RECEPTACLES THERMOPLASTIC

### MOUNTING INFORMATION

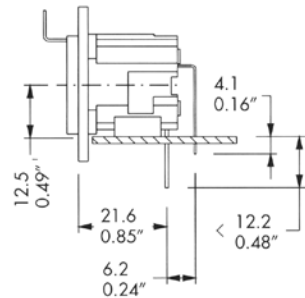
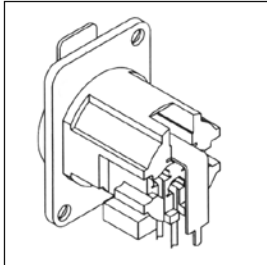
**'D' SERIES**  
90° PCB (H)



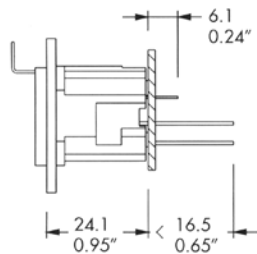
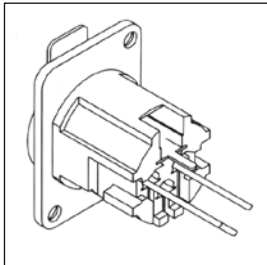
**'D' SERIES**  
STRAIGHT PCB (V)



**'P' SERIES**  
90° PCB (H)

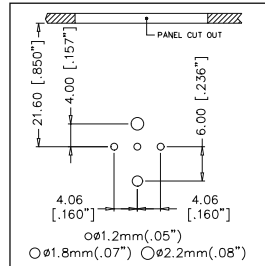


**'P' SERIES**  
STRAIGHT PCB (V)

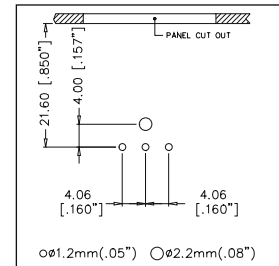


**NOTE:** For Dual Gang dimensions other than the mounting centres shown opposite please refer to the P Series above.

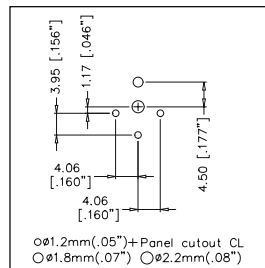
### PCB FOOTPRINT - CONNECTOR SIDE OF PCB



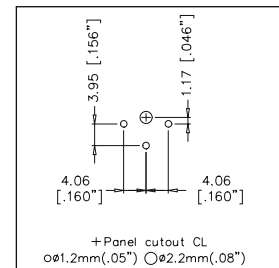
**AC3FDPH / AC3FPPH**



**AC3MDPH / AC3MPPH**

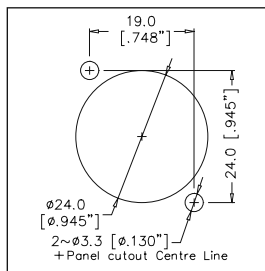


**AC3FDPV / AC3FPPV**

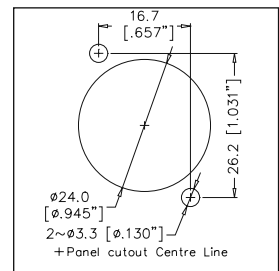


**AC3MDPV / AC3MPPV**

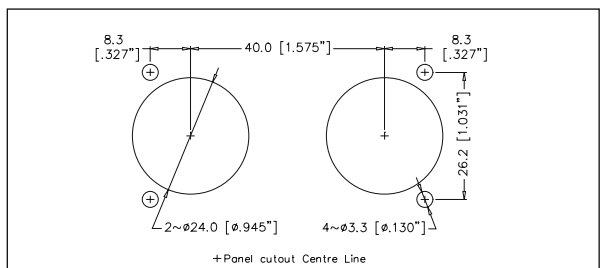
### PANEL CUTOUT DIMENSIONS - FRONT VIEW



**AC3FDP / AC3MDP**

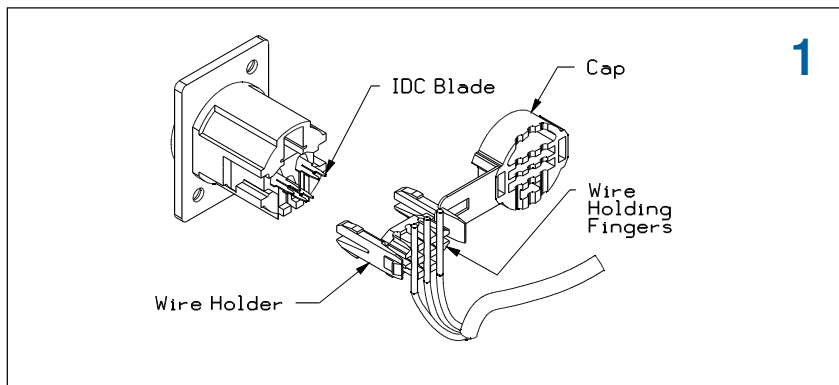


**AC3FPP / AC3MPP**

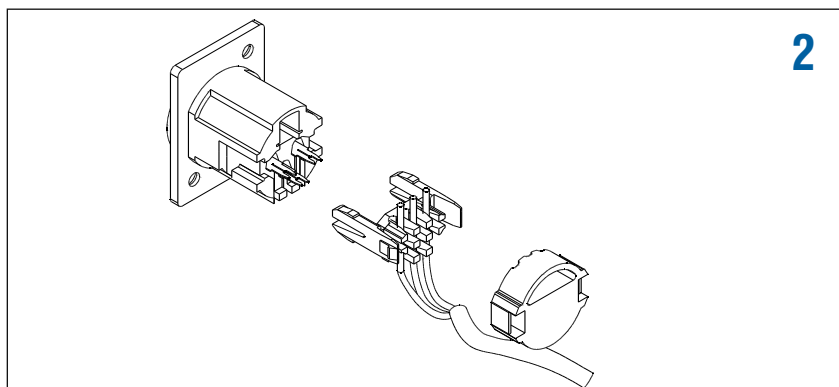


**AC DUAL GANG**

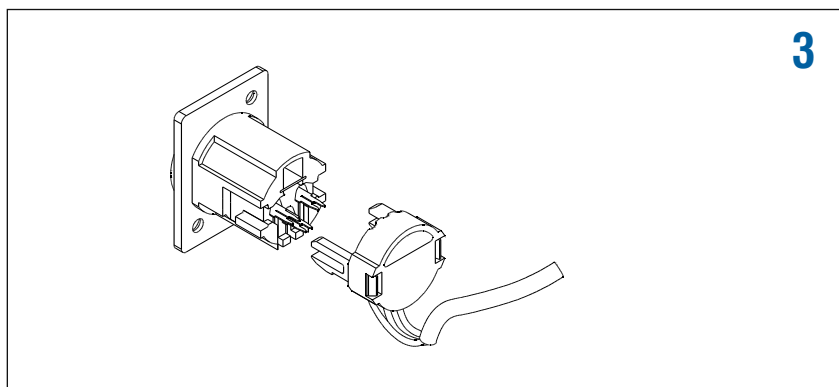
## AC IDC SERIES CHASSIS ASSEMBLY INSTRUCTIONS



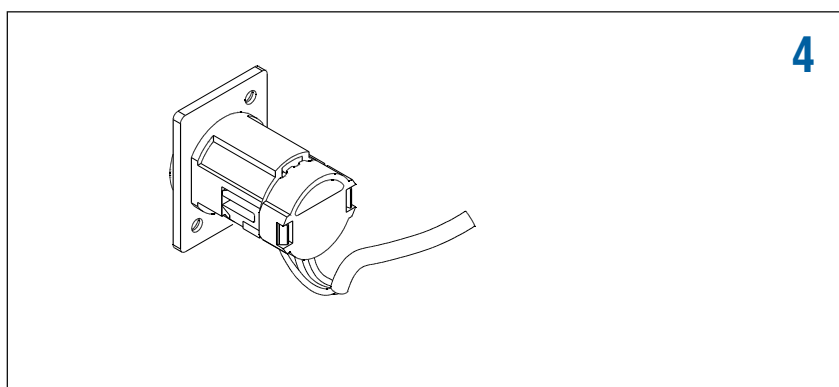
Lay the insulated conductors between the wire holding fingers. The fingers will retain the wire if it is inserted sufficiently.



Break the strap off from the wire holder and the cap. Assemble the cap to the wire holder as shown. Push it home until the second snap operates.



Align the wire holder and cap assembly with the slots down the side of the connector body. Push together, being careful not to damage the IDC blades through misalignment.



Ensure wire holder snaps into the body.



## SP/EP/AP SERIES HIGH POWER / LOUDSPEAKER CONNECTORS

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.

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.

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.
- Tough, durable zinc diecast shell for the EP series.
- Cost effective durable thermoplastic shell for the AP and SP series.
- EP series available in 3, 4, 5, 6 and 8 contact arrangements
- AP series available in 4, 5, 6, and 8 contact arrangements.
- SP series available in 2 and 4 contact arrangements.
- SP Series with overmolded cable support boot or PG gland with or without cable support strain relief.

- EP series 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.

### Options

- Solder termination / Tab or Printed Circuit Board versions, Screw Terminals (SP Series)
- Nickel Plated Zinc Alloy shell (EP/SP Series)
- Black finished Zinc Alloy shell (EP/SP Series)
- Precision machined contacts
- Thermoplastic shell (AP/SP Series)

### 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

EP / AP / SP SERIES

## SP SERIES LOUDSPEAKER CONNECTORS



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:

- 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)
- Industry standard mating

**Part Number Breakdown: Page 73/74 Specifications: Page 76 PCB Footprints: Page 75**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
		87 [3.43"] ø28 [1.10"]	2 pole, Cable connector, Thermoplastic shell, Blue sleeve	Screw	Black	<a href="#">SP-2-F</a>
				Solder	Black	<a href="#">SP-2-FS</a>
		111 [4.36"] ø28 [1.09"]	2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland	Screw	Black	<a href="#">SP-2-FG</a>
				Solder	Black	<a href="#">SP-2-FSG</a>
		179 [7.06"] ø28 [1.10"]	2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland strain relief	Screw	Black	<a href="#">SP-2-FL</a>
				Solder	Black	<a href="#">SP-2-FSL</a>
		87 [3.43"] ø28 [1.10"]	2 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	<a href="#">SP-2-FN</a>
				Solder	Nickel	<a href="#">SP-2-FNS</a>
				Screw	Black	<a href="#">SP-2-FB</a>
				Solder	Black	<a href="#">SP-2-FBS</a>
		111 [4.36"] ø28 [1.09"]	2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	<a href="#">SP-2-FNG</a>
				Solder	Nickel	<a href="#">SP-2-FNSG</a>
				Screw	Black	<a href="#">SP-2-FBG</a>
				Solder	Black	<a href="#">SP-2-FBSG</a>
		179 [7.06"] ø28 [1.10"]	2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	<a href="#">SP-2-FNL</a>
				Solder	Nickel	<a href="#">SP-2-FNSL</a>
				Screw	Black	<a href="#">SP-2-FBL</a>
				Solder	Black	<a href="#">SP-2-FBSL</a>



# Amphenol

EP / AP / SP SERIES

## SP LOUDSPEAKER CONNECTORS

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



# Amphenol


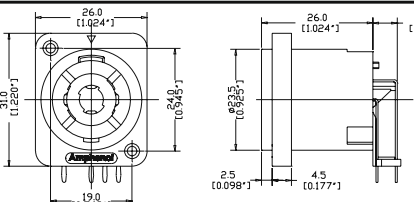

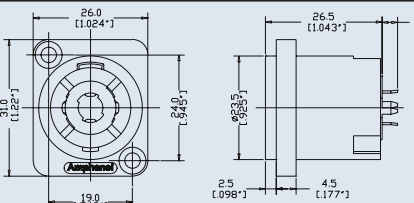
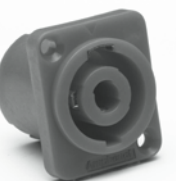
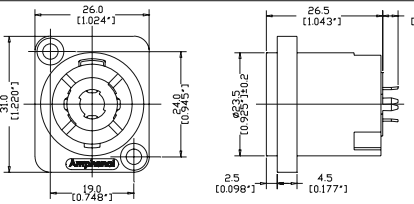

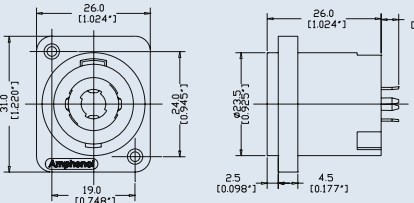
EP / AP / SP SERIES

## SP LOUDSPEAKER CONNECTORS

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





PRODUCT - FIGURE		DESCRIPTION	VARIATIONS	PART NUMBER
		4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	<a href="#">SP-4-MDHT</a>
		4 pole, D flange, Thru holes, Vertical PCB	Black	<a href="#">SP-4-MDV</a>
		4 pole, D flange, Thru holes, Vertical PCB	Red	<a href="#">SP-4-MDV-2</a>
		4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	<a href="#">SP-4-MDVT-8</a>

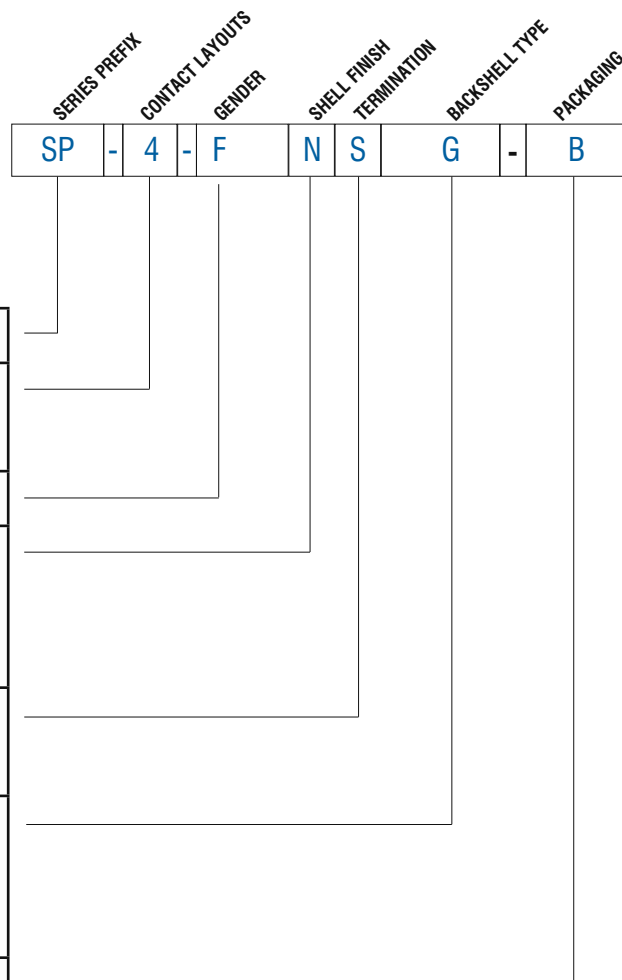


## PART NUMBER BREAKDOWN

### 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)

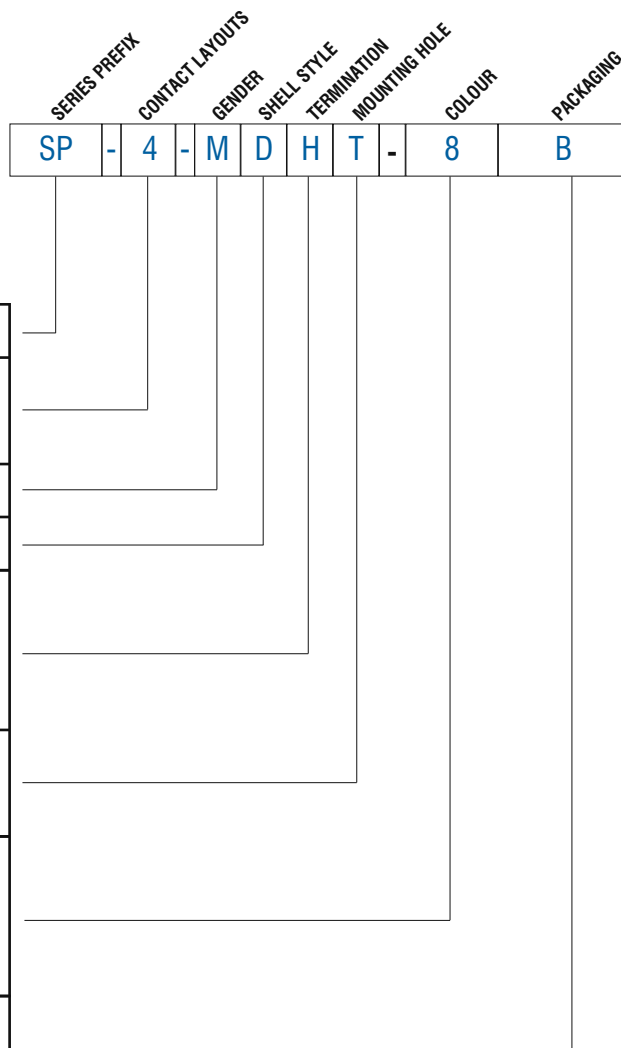
<b>SERIES PREFIX</b>	SP	=	Series Prefix
<b>CONTACT LAYOUT</b>	2	=	2 Contacts
	4	=	4 Contacts
<b>GENDER</b>	F	=	Cable Connector
<b>SHELL FINISH</b>	Blank	=	Thermoplastic - Black
	N	=	Metal - Nickel Finish
	B	=	Metal - Black Finish
<b>TERMINATION</b>	Blank	=	Screw Terminals
	S	=	Solder Terminals
<b>BACKSHELL TYPE</b>	Blank	=	Standard
	G	=	PG Gland
	L	=	PG Gland Strain Relief
<b>PACKAGING BACK-SHELL COLOUR</b>	1	=	Brown
	2	=	Red
	3	=	Orange
	4	=	Yellow
	5	=	Green
	6	=	Blue
	7	=	Violet
	8	=	Grey
	9	=	White
<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.

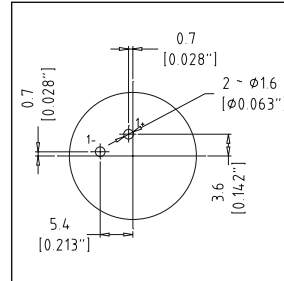
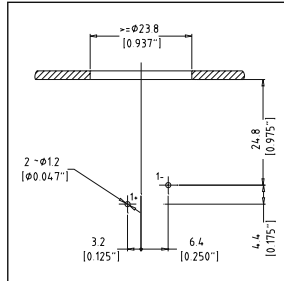


<b>SERIES PREFIX</b>	SP	=	Series Prefix
<b>CONTACT LAYOUT</b>	2	=	2 Contacts
	4	=	4 Contacts
<b>GENDER</b>	M	=	Chassis Connector
<b>SHELL STYLE</b>	D	=	Standard 'D' Type flange
<b>TERMINATION</b>	Blank	=	Solder tabs - 3/16" terminals
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit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



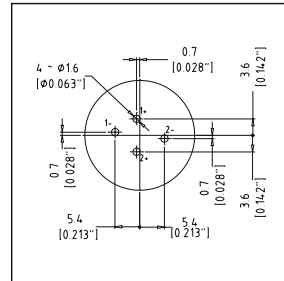
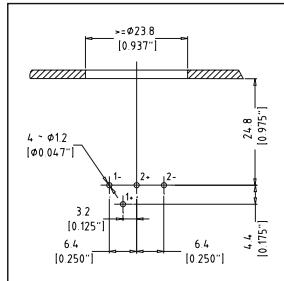
## SP SERIES

SP-2-MDH



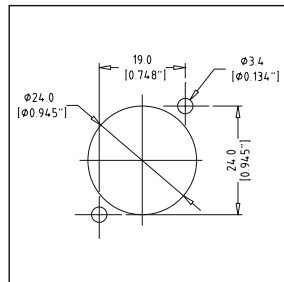
SP-2-MDV

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



## STANDARD DATA SP SERIES CHASSIS 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	
<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	44g (0.097lb)
		- Metal	65g (0.143lb)
	Weight** - Cable Plug PG	- Thermoplastic	44g (0.097lb)
		- Metal	65g (0.143lb)
	Weight** - Cable Plug PG S/Relief	- Thermoplastic	68g (0.150lb)
		- Metal	89g (0.196lb)
	Typical Cable retention force	200N (Subject to cable material and O.D.)	
	Cable O.D range	- Chuck Clamp	9-14mm (0.35" - 0.55")
		- PG16 Gland	8-14mm (0.31" - 0.55")
- PG16 Gland S/Relief		10-14mm (0.39" - 0.55")	
Mechanical Operations	5000		
Fastening (Chassis Self Tapping)	M3 screw		
<b>MATERIALS</b>	Connector Shell / Finish	PA66 GF20 / Black PA66 GF30 / Black Diecast Zinc Alloy / Nickel or Black	
	- Chassis		
	- Cable Plug Thermoplastic		
	- Cable Plug Metal		
	Insulators	PA66 GF20 PA66 GF30	
	- Chassis		
	- Cable Plugs		
	Cable Boot / Backshell	Santoprene / PA6 GF 15	
Cable Clamp (Chuck)	P.O.M		
Cable Clamp (PG)	Polyamide / EPDM		
Sleeve	PA6 15GF		
Contact Chassis	Phosphor Bronze / Silver		
- Material / Plating			
Contact Cable Plug	Brass / Silver		
- Material / Plating			

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

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

Rev 3-11/2011




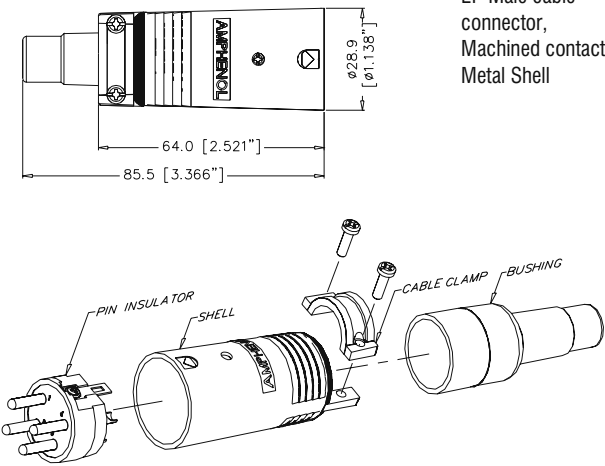

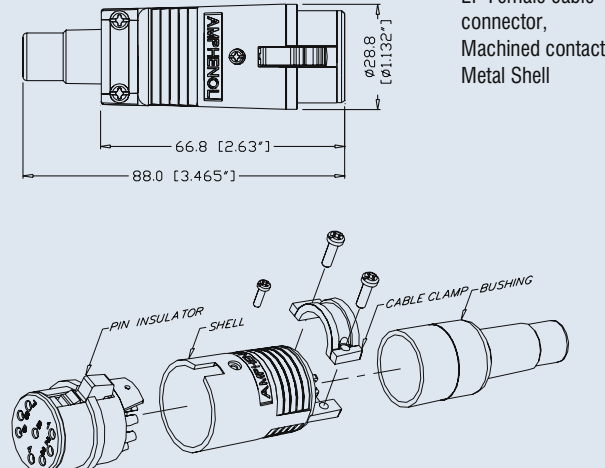
The EP Series has set the standard in high performance speaker connectors. Apart from its durability and strength, it offers consistent superior power handling capabilities.

**Features:**


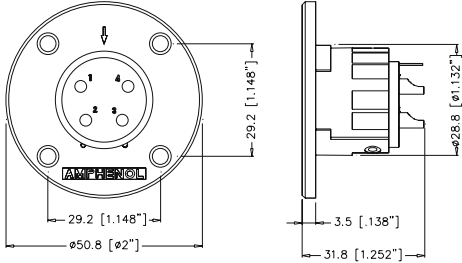

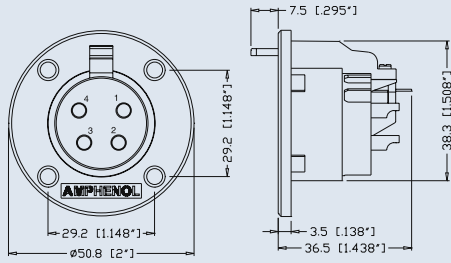
- Solder Bucket connections.
- Precision machined contacts.
- Diecast Metal Housings
- High current contacts
- Male and female cable and chassis connectors available.

**Options:** Black Finish Shell.  
**Panel Cutouts:** Page 81

**Specifications:** Page 80-81

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 80-81**

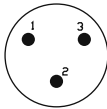
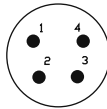
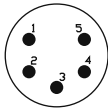
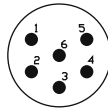
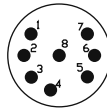
**Panel Cutouts: Page 81**

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"] 50.8 [2"] 2.8 [0.11"] 6.2 [0.244"] 31.8 [1.252"]	AP Male chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-14 AP-5-14 AP-6-14 AP-8-14
		29.2 [1.148"] 432.4 [16.276"] 50.8 [2"] 7.5 [0.295"] 2.8 [0.11"] 6.2 [0.244"] 36.5 [1.438"]	AP Female chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-13 AP-5-13 AP-6-13 AP-8-13
		29.2 [1.148"] 50.0 [1.969"] 40.0 [1.575"] 432.4 [16.276"] 2.8 [0.11"] 6.2 [0.244"] 31.8 [1.252"]	AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-22 AP-5-22 AP-6-22 AP-8-22
		29.2 [1.148"] 50.0 [1.969"] 40.0 [1.575"] 7.5 [0.295"] 432.4 [16.276"] 2.8 [0.11"] 6.2 [0.244"] 36.5 [1.438"]	AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole 5 pole 6 pole 8 pole	AP-4-21 AP-5-21 AP-6-21 AP-8-21





## STANDARD DATA EP/AP

		VALUE				
<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 RoHS Directive 2002/95/EC				
<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.

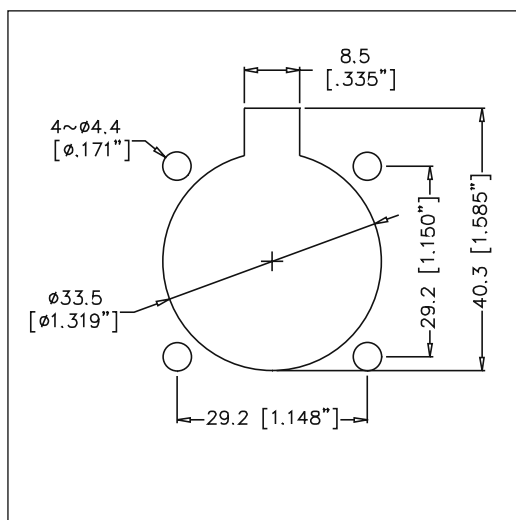
## STANDARD DATA EP/AP (CONT'D)

		DETAILS	
MATERIALS	TYPE	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

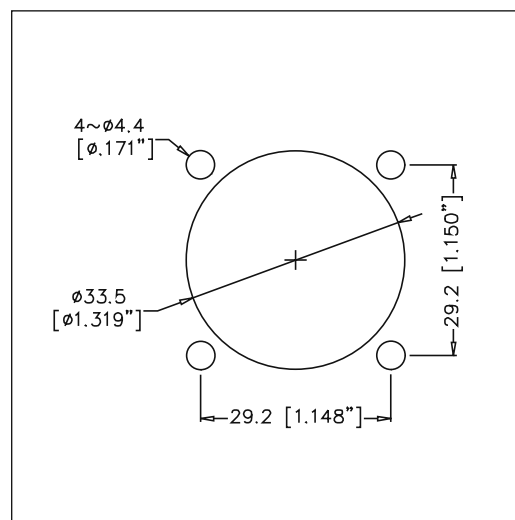


## EP/AP SERIES PANEL CUTOUT DATA - FRONT VIEW

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22





## XLRnet SERIES

**Features/Benefits:**


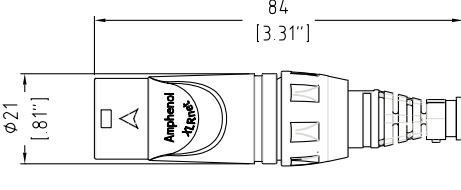

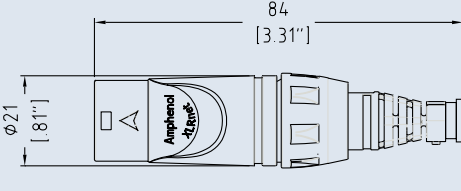
- XLR RJ45 Cable plug housing.
- Designed for pre-assembled RJ45 cables.
- Quick and simple installation.
- Cost effective method for harsh environments.
- No cabling in field required.
- No tools required for installation.
- Available in Nickel or Black housings.
- Coloured boots / Backshells

Specifications: Page 83

Part Number Breakdown : Page 83

Assembly Instructions: Page 84

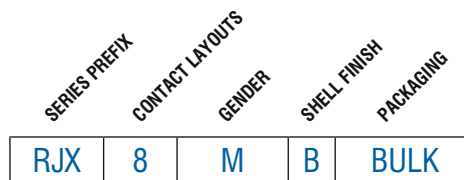
**NOTE\***RJ45 preassembled cable sold separately and is not included with the XLRnet connector.

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	<p style="text-align: center;">Dimensions in mm (inches)</p> 	XLrnet, XLR cable plug housing to suit preassembled RJ45 cables, Nickel Finish	<p>Standard</p> <p>Bulk Pack</p>	<p>RJX8M</p> <p>RJX8M BULK</p>
		XLrnet, XLR cable plug housing to suit preassembled RJ45 cables, Black Finish	<p>Standard</p> <p>Bulk Pack</p>	<p>RJX8MB</p> <p>RJX8MB BULK</p>



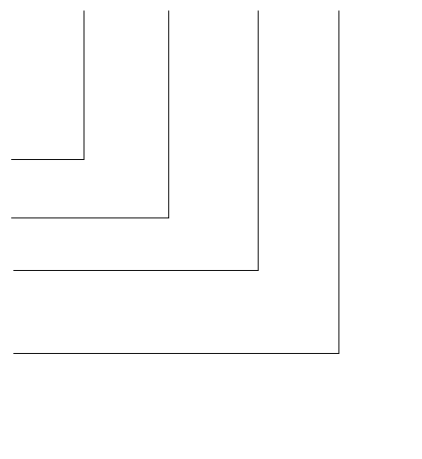
## PART NUMBER BREAKDOWN

### 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



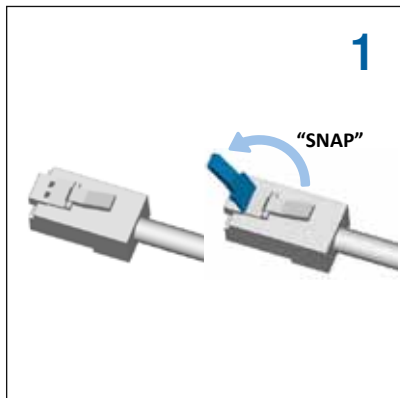
## STANDARD DATA XLRnet SERIES



		VALUE
<b>GENERAL CHARACTERISTICS</b>	Termination	Preassembled RJ45 Cable (Not supplied)
	Environmental	Complies with RoHS Directive 2002/95/EC
<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	5-8mm (0.20" - 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

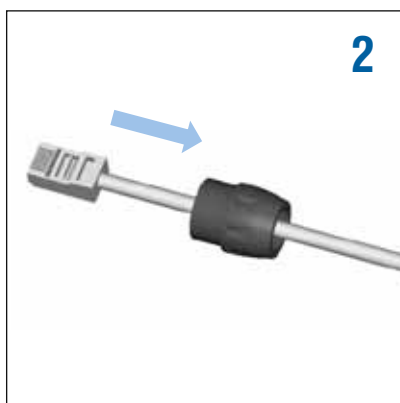
<sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

## XLrnet SERIES CABLE ASSEMBLY INSTRUCTIONS

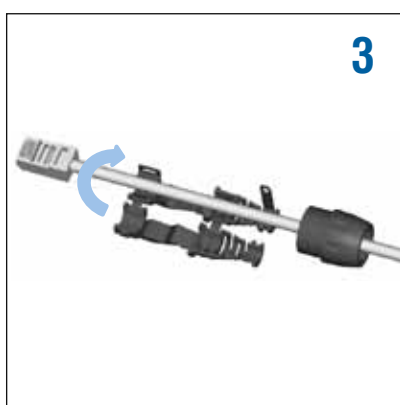


1 Snap or cut off release tab of the RJ45 plug.

**⚠** Failure to remove the RJ45's Release Tab will make the XLrnet assembly permanently latching. The XLrnet series has an independent panel side latching system.



2 Slide the nut (backshell) onto the cable.



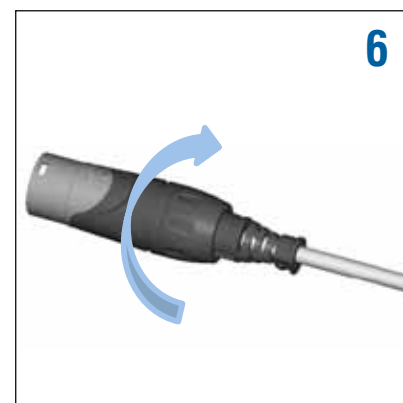
3 Install the cable clamp-boot.



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



5 Push clamp-boot & cable together into the shell



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





## 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


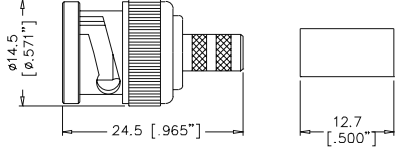

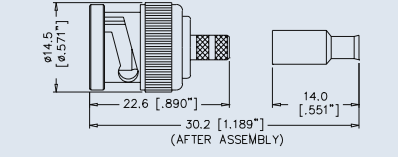
- 1) Identify the product group listed in Contents on Page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description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




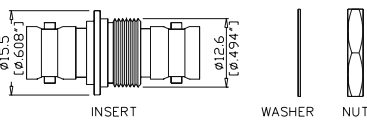

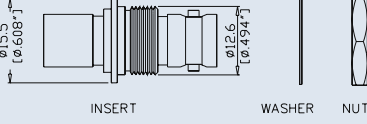

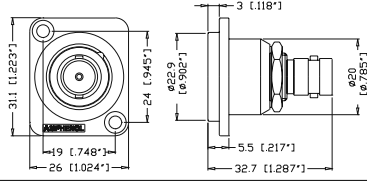

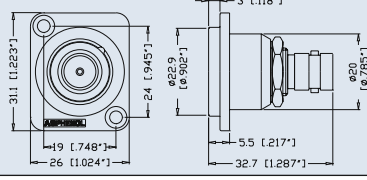

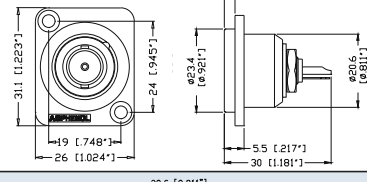

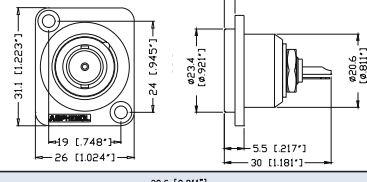

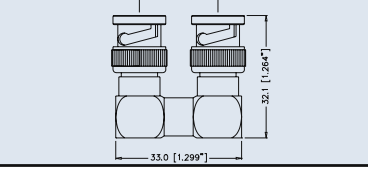

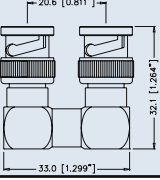


Amphenol manufactures a large range of connectors to suit cables other than those listed below, for example Belden YR23769 and 46899, please contact us to discuss your specific requirements.


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
	<p>Straight Crimp Plug - Captive Contact- Standard Cable</p>  <p>3.7 [.146"] 4.0 [.157"] 8.3 [.327"]</p> <p>RECOMMENDED CABLE STRIPPING DIMS.</p> <p>Assembly Instruction A - page 89</p>	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
			Teflon	E	112958*
		B8281/ B9231/ B9141	Delrin	E	112509
			Teflon	E	112953*
B1505A	Teflon	E	112951*		
B735A1	Teflon	F	112950*		
	<p>Straight Crimp Plug-Captive Contact-Miniature Cable (Remark: With Teflon sleeve / Hex crimp size .178")</p>  <p>30.2 [1.189"] (AFTER ASSEMBLY)</p> <p>5.2 [.205"] 3.0 [.118"] 6.8 [.268"] 2.0 [.079"]</p> <p>RECOMMENDED CABLE STRIPPING DIMS.</p> <p>Assembly Instruction B - page 89</p>	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

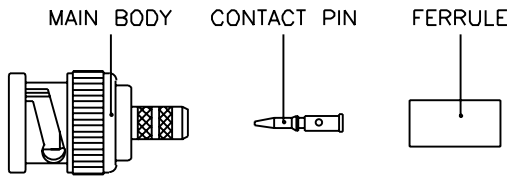
PRODUCT - FIGURE DRAWING	Dimensions in mm (inches)	DESCRIPTION	MATERIAL / FINISH	LOADED WITH <small>(refer to page 84 for specifications)</small>	PART NUMBER
		1RU 1X20 Patch Panel, Supplied with 1 ID label	Steel / Black	Empty Panel	AC-BNC20M
		Steel / Black	AC-BNC-JJA-75	AC-BNC20MJ75	
		Steel / Black	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		



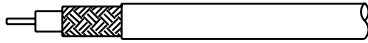
## BNC 75 RF ASSEMBLY INSTRUCTIONS

### ASSEMBLY A

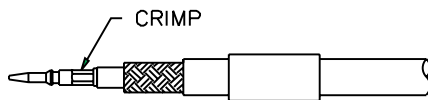
#### STEP 1



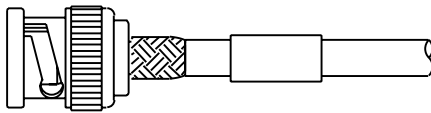
#### STEP 2



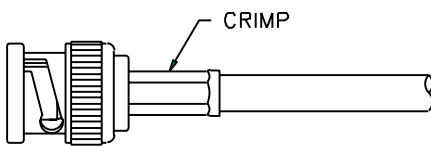
#### STEP 3



#### 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.

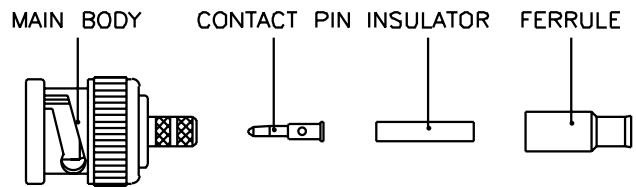
STEP 3. Insert inner conductor into the CONTACT PIN, crimp it with the crimp tool as shown. Then slide the FERRULE onto cable.

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

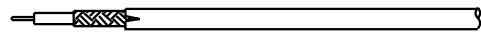
STEP 5. Slide the FERRULE over braid, crimp it with the crimp tool as shown.

### ASSEMBLY B

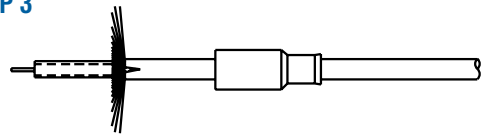
#### STEP 1



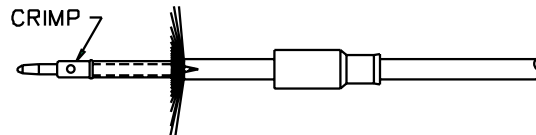
#### STEP 2



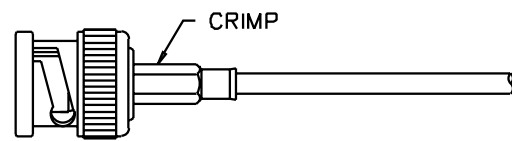
#### STEP 3



#### 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.



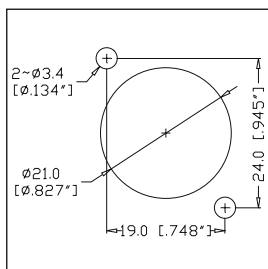
## STANDARD DATA BNC 75 RF CONNECTORS

		VALUE	
<b>GENERAL CHARACTERISTICS</b>	Mating	Bayonet Lock	
	Cable Attachment	Crimp - Crimp	
	Environmental	Complies with RoHS Directive 2002/95/EC	
<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

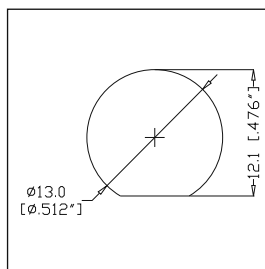
**NOTE:** These characteristics are typical and may not apply to all connectors.

## PANEL CUTOUTS - FRONT VIEW

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



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



Rev 3 - 10/2010



## 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 7.5mm (0.236" to 0.295")

\*Note: Applicable to T-Series straight cable connectors only. Refer to page 98 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 3mm to 8mm (0.118" to 0.315")

### 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



1/4" PHONE PLUGS

T-SERIES


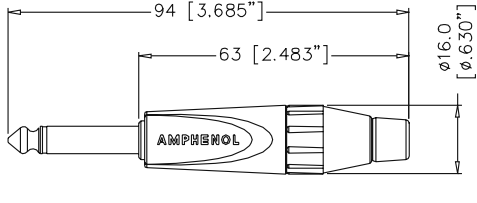

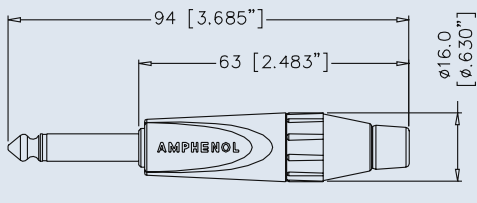

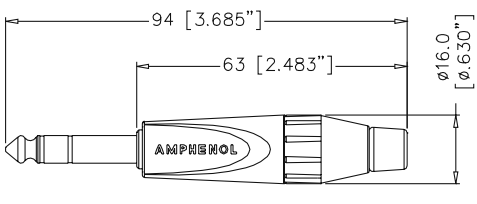

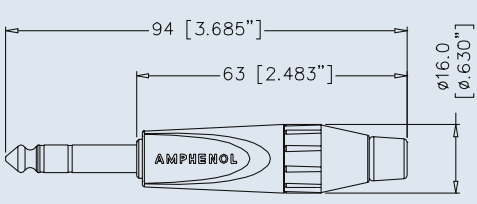


**Features:**

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

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

**Part Number Breakdown: Page 97 Specifications: Page 98**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mm $\varnothing$ ) 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" (6.35mm $\varnothing$ ) 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" (6.35mm $\varnothing$ ) 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" (6.35mm $\varnothing$ ) 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

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

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





# Amphenol

SwitchPlug



1/4" PHONE PLUGS

T-SERIES SWITCHPLUG



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

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

**Part Number Breakdown: Page 97**  
**Specifications: Page 98**

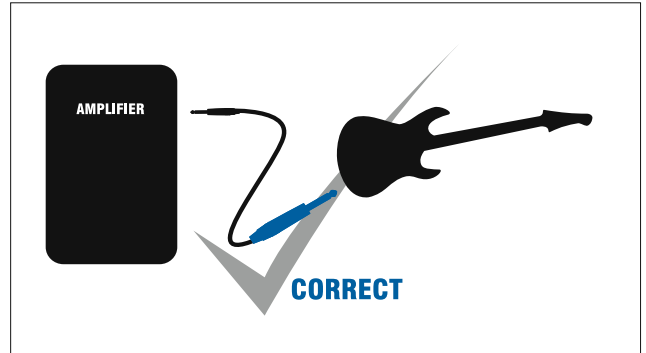
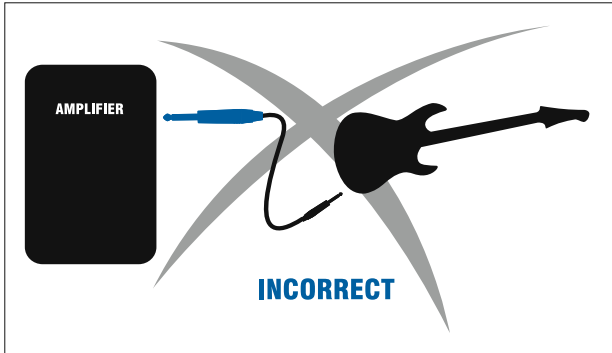
Patent Pending

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

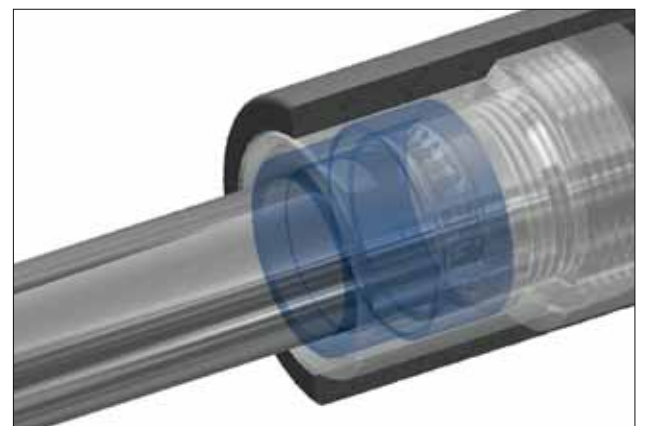
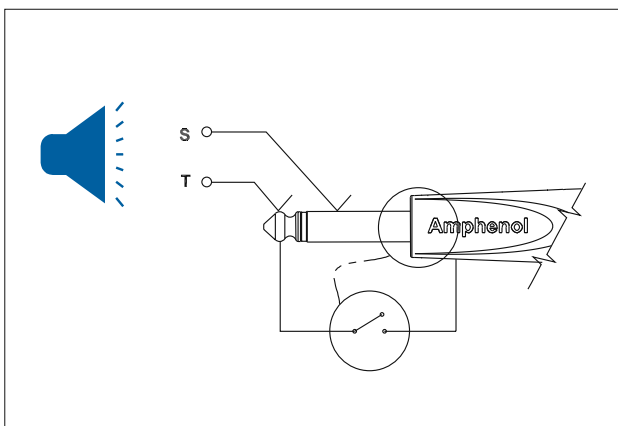
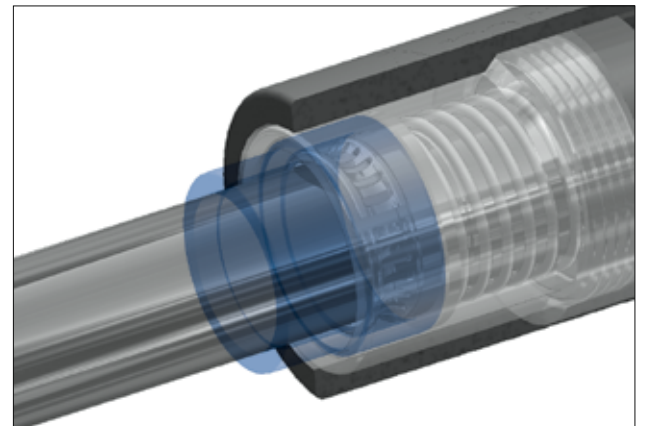
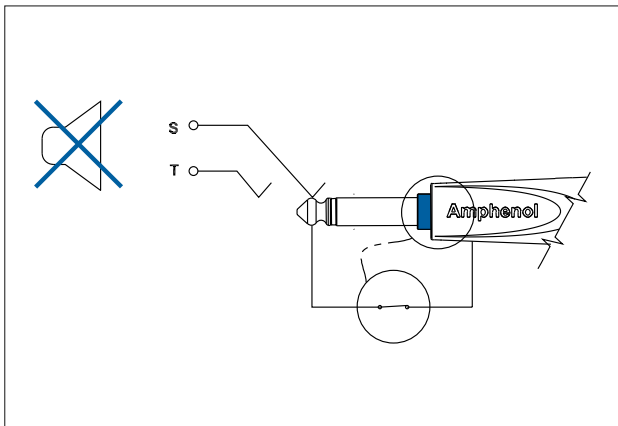
\*NOTE: Refer to page 98 for Jaws cable clamp specifications applicable to right angle connectors.

## 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\*



\*Patent Pending







**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 98

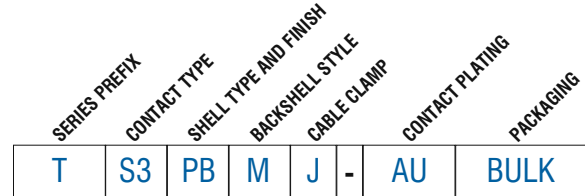
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mm $\varnothing$ ) JUMBO Mono Phone plug, Thermoplastic back- shell, Satin finish.	Standard Gold Plated Contacts Bulk Pack	JM2P JM2P-AU JM2P BULK
		1/4" (6.35mm $\varnothing$ ) JUMBO Mono Phone plug, Thermoplastic back- shell, Black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

## PART NUMBER BREAKDOWN

### T-SERIES (PRO RANGE)

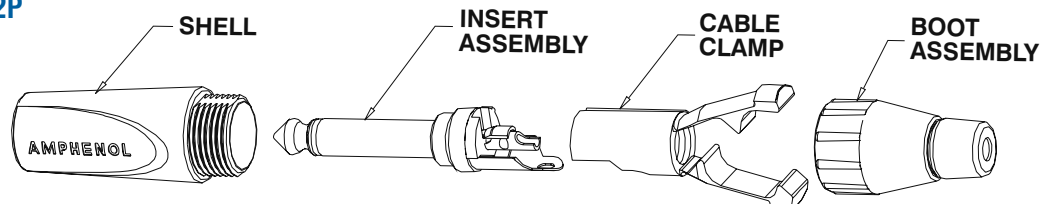
E. G. **TS3PBMJ-AU BULK**  
**T** (Series Prefix), **S3** (Stereo), **P** (Plug Black), **M** (Metal Nut (Black)), **J** (Large Jaws),  
**- AU** (Gold Plated Contacts), **BULK** Packaged.



<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 RoHS Directive 2002/95/EC		
<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 7.5mm (0.236" to 0.295")	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		

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

# Amphenol

1/4" PHONE PLUGS

## MUSICIAN SERIES



**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.

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

**Specifications:** [Page 112](#)


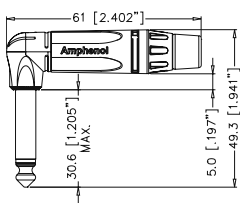

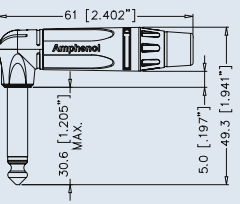

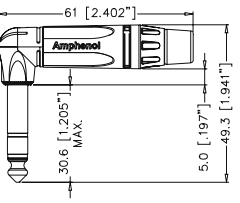

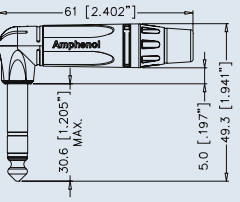
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmØ) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	<a href="#">ACPM-KN</a>
			Gold Plated Contacts	<a href="#">ACPM-KN-AU</a>
			Bulk Pack	<a href="#">ACPM-KN-BULK</a>
		1/4" (6.35mmØ) Mono Phone plug,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



# Amphenol

1/4" PHONE PLUGS

## M SERIES II (MUSICIAN RANGE)

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




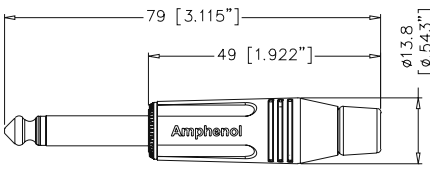

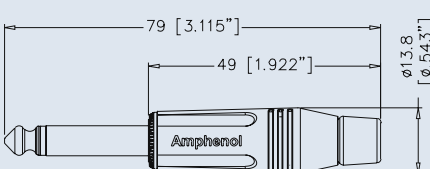

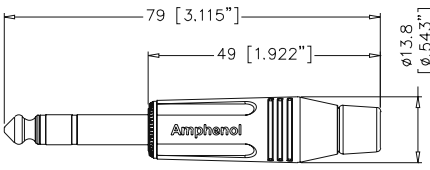

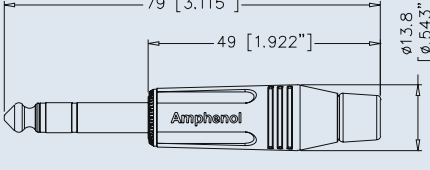


**Features:**





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

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

**Specifications:** [Page 112](#)

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



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

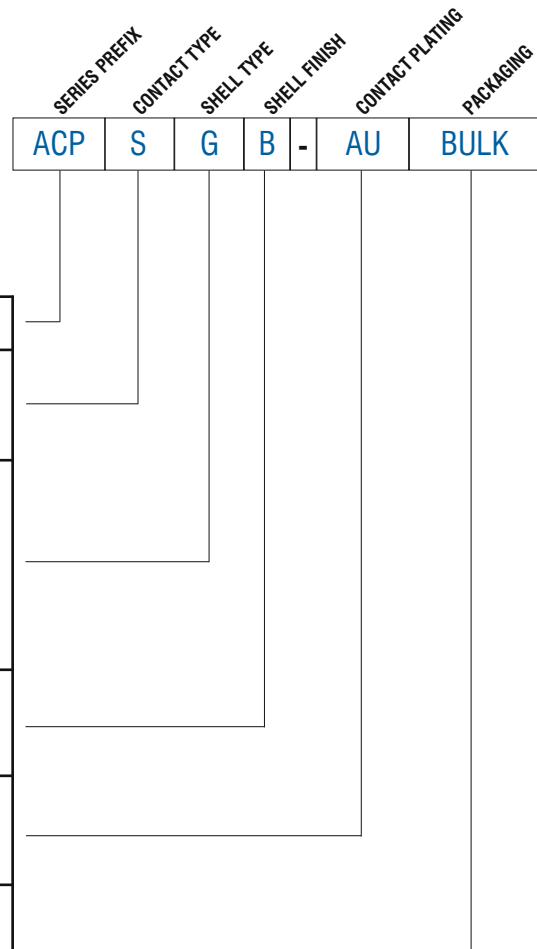


## PART NUMBER BREAKDOWN

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.

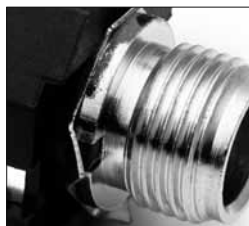
### Applications

- 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

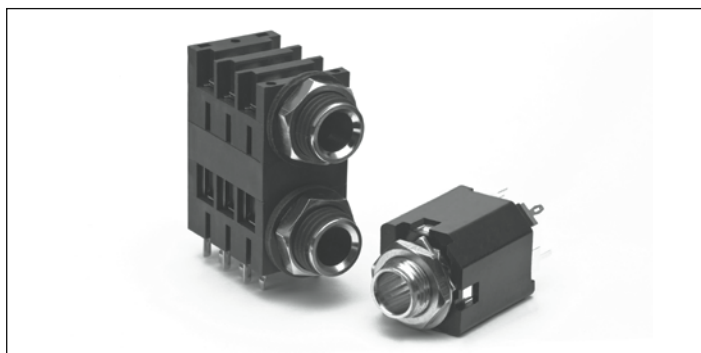
### Ordering Codes

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.





**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 110**  
**Panel Cutouts: Page 109**  
**PCB Footprints: Page 111**  
**Specifications: Page 112**

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 110	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 110	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 110	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


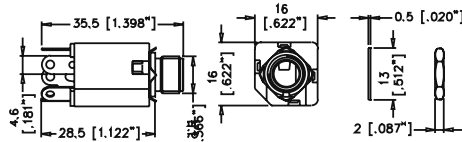


PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDR
				Stereo	ACJS-MHDR
			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread, 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 110	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 110	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

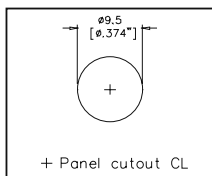
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
				Stereo - Metal Nut	ACJS - MH
			1/4" (6.35mmø) Jack, Horizontal Snap-fit PCB mount, Plastic housing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



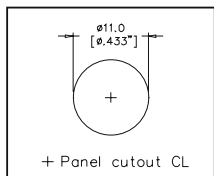
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmØ) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHD*
			Stereo	ACJS-MHD*
		1/4" (6.35mmØ) Dual Phone Jack (Piggyback) Shielding plate, Horizontal Snap-fit PCB, Plastic 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 110	ACJM-PVB-2
				ACJM-PVB-2S
				ACJS-PVB-3
				ACJS-PVB-3S
				ACJS-PVB-5
		ACJS-PVB-5S		
		1/4" (6.35mmØ) Jack, Vertical PCB mount, Needle eye contacts, Plastic thread, Metal nut and insert	Refer to Schematic Chart on Page 110	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 110	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 110	ACJM-MV-2
				ACJM-MV-2S
				ACJS-MV-3
				ACJS-MV-3S
				ACJS-MV-5

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

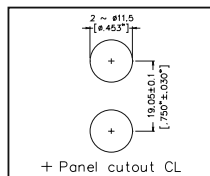
## PANEL CUTOUTS -FRONT VIEW



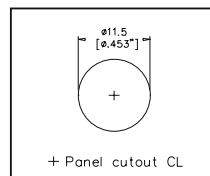
ACJM-MV  
ACJS-MV  
ACJM-MN-2  
ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJS-MN-5  
ACJM-MIV  
ACJS-MIV  
ACJM-MVS  
ACJS-MVS



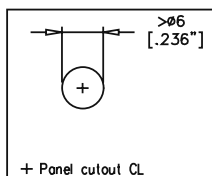
ACJM/S-PH  
ACJM/S-MH  
ACJM/S-PC  
ACJM/S-MC  
ACJM/S-PHR  
ACJM/S-MHR  
ACJM/S-PHS  
ACJM/S-MHS



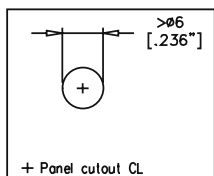
ACJM-MHD  
ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE



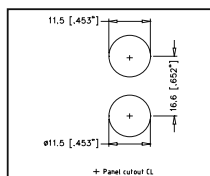
ACJM-MHDR  
ACJS-MHDR  
ACJS-HHDR



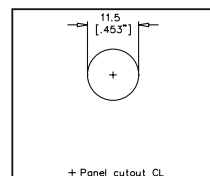
ACJM-NH35  
ACJS-NH35



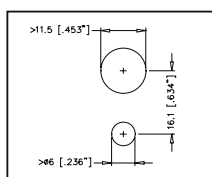
ACJM-NV35-2  
ACJM-NV35-2S  
ACJS-NV-35-3  
ACJS-NV-35-3S  
ACJS-NV-35-5  
ACJM-MV35-2  
ACJM-MV35-2S  
ACJS-MV-35-3  
ACJS-MV-35-3S  
ACJS-MV-35-5



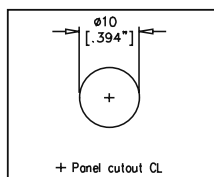
ACJS-MHDC  
ACJM-MHDC



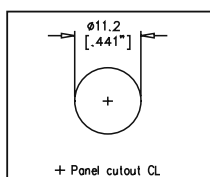
ACJS-IH  
ACJM-IH  
ACJS-IHS  
ACJM-IHS



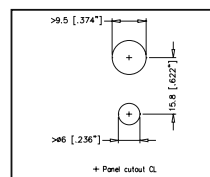
ACJS-MHD985  
ACJM-MHD985



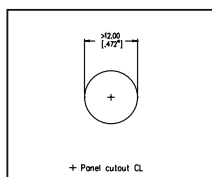
ACJS-MHOM  
ACJM-MHOM



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

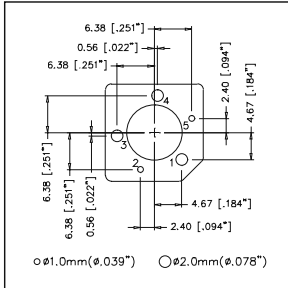
<b>PART NO.</b>	ACJM-MV35-2 ACJM-MN-2 ACJM-NV35-2 ACJM-PVB-2 ACJM-MV-2 ACJM-MVS-2 ACJM-MIV-2	ACJM-MV35-2S ACJM-MN-2S ACJM-NV35-2S ACJM-PVB-2S ACJM-MV-2S ACJM-MVS-2S ACJM-MIV-2S	ACJS-MV35-3 ACJS-MN-3 ACJS-NV35-3 ACJS-PVB-3 ACJS-MV-3 ACJS-MVS-3 ACJS-MIV-3	ACJS-MV35-3S ACJS-MN-3S ACJS-NV35-3S ACJS-PVB-3S 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
<b>GENERAL SCHEMATIC</b>					

<b>PART NO.</b>	ACJM-MVD985-2	ACJM-MVD985-2S	ACJS-MVD985-3	ACJS-MVD985-3S	ACJS-MVD985-5
<b>SCHEMATIC</b>					

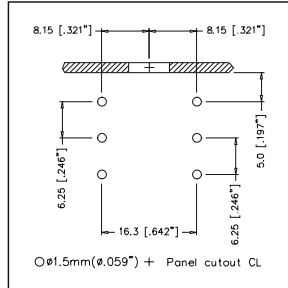
<b>PART NO.</b>	ACJM-HHOP-1 ACJM-PHOP-1 ACJM-MHOP-1	ACJS-HHOP-1 ACJS-PHOP-1 ACJS-MHOP-1	ACJM-HHOP ACJM-PHOP CJM-MHOP	ACJS-HHOP ACJS-PHOP ACJS-MHOP
<b>GENERAL SCHEMATIC</b>				



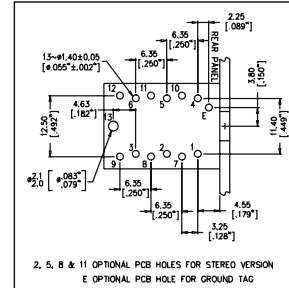
## PCB FOOTPRINT - CONNECTOR SIDE OF PCB



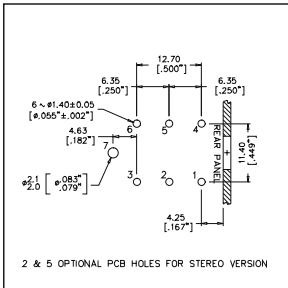
ACJM-MV  
ACJM-MV35-XX  
ACJS-MIV-2  
ACJS-MIV-3  
ACJS-MIV-5



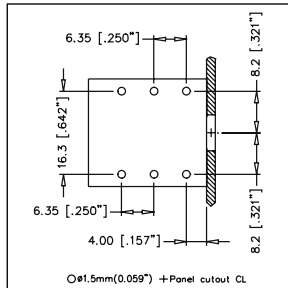
ACJM-PH  
ACJM-MH  
ACJS-PH  
ACJS-MH  
ACJM-MC  
ACJS-MC



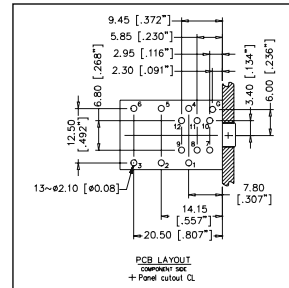
ACJM-MHD  
ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE  
ACJM-MHDEM  
ACJS-MHDEM  
ACJM-MHDC  
ACJS-MHDC  
ACJM-MHDCM  
ACJS-MHDCM  
ACJM-MHDM  
ACJS-MHDM



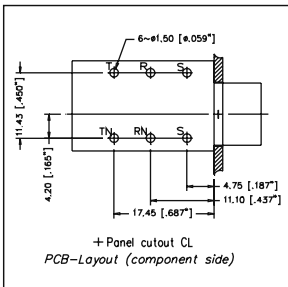
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ACJS-MHDR  
ACJM-PHR  
ACJS-PHR  
ACJM-MHR  
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ACJM-HHDR  
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ACJM-MHDRM  
ACJS-MHDRM



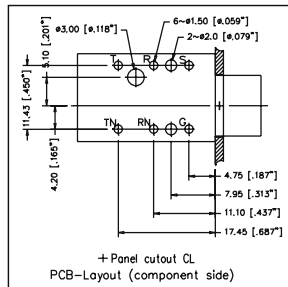
ACJS-IH  
ACJM-IH



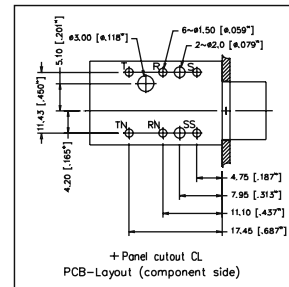
ACJS-MHD985  
ACJM-MHD985



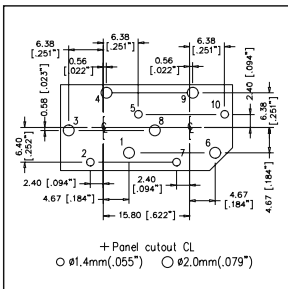
ACJS-MHOM  
ACJM-MHOM



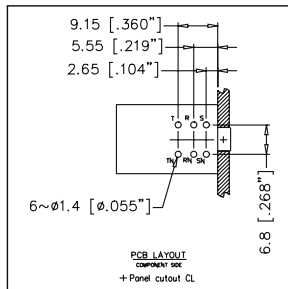
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ACJS-PHOP-1  
ACJS-HHOP-1  
ACJM-MHOP-1  
ACJM-PHOP-1  
ACJM-HHOP-1



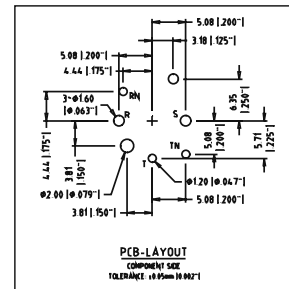
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ACJS-PHOP  
ACJM-MHOP  
ACJM-PHOP  
ACJM-HHOP  
ACJS-HHOP



ACJS-MVD985  
ACJM-MVD985



ACJS-NH35  
ACJM-NH35



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





## PLUG AND 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
	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 RoHS Directive 2002/95/EC
<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
	Cable O.D. (Plugs)	6mm (0.236")
<b>MATERIALS</b>	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3
	Connector Shell Material (Jacks)	UL94 V-0 PBT Modified PPO Resin - Black
	Connector Shell Finish	Satin Nickel, Nickel or Black Polyester
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin and fibreglass laminate
	Cable Bushing	Santoprene
	Contacts / Plating (Plugs)	Brass / Ni over Cu (Copper)
	Contacts / Plating (Jacks)	Brass / Sn (Tin) over Cu (Copper)

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



## 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

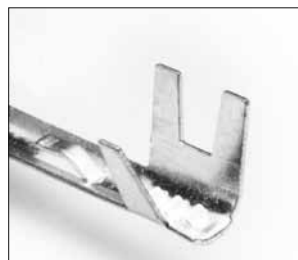
### Features / Options – Miniature XLR

- 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)

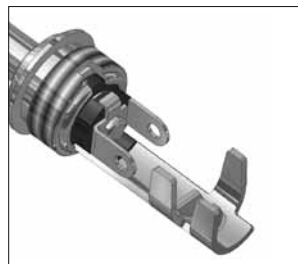
### Features / Options – 3.5mm Plugs Phone Jack

- 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.



# Amphenol

3.5MM PHONE PLUGS

## 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.

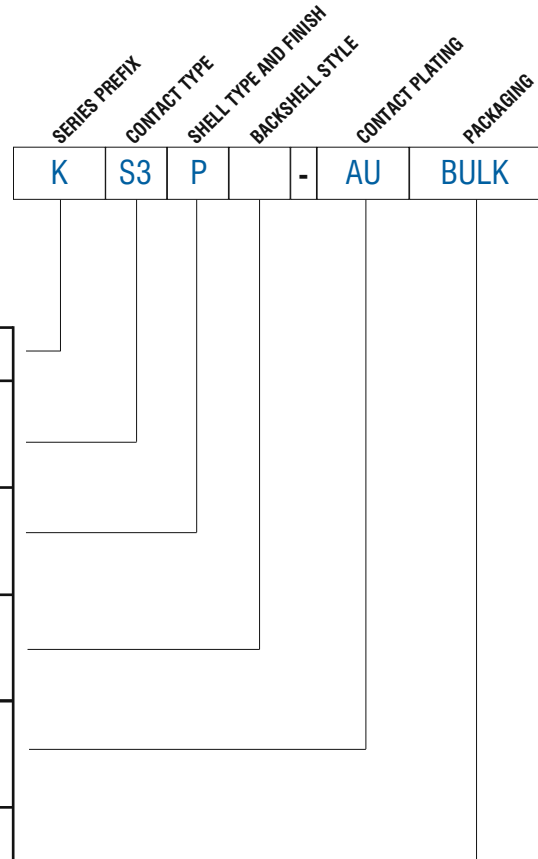
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	<p style="text-align: center;">Dimensions in mm (inches)</p>	3.5mm, Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Bulk Pack</a>	<a href="#">KM2P</a> <a href="#">KM2P-AU</a> <a href="#">KM2P BULK</a>
		3.5mm, Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Bulk Pack</a>	<a href="#">KM2PB</a> <a href="#">KM2PB-AU</a> <a href="#">KM2PB BULK</a>
		3.5mm, Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Bulk Pack</a>	<a href="#">KS3P</a> <a href="#">KS3P-AU</a> <a href="#">KS3P BULK</a>
		3.5mm, Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Bulk Pack</a>	<a href="#">KS3PB</a> <a href="#">KS3PB-AU</a> <a href="#">KS3PB BULK</a>



## PART NUMBER BREAKDOWN

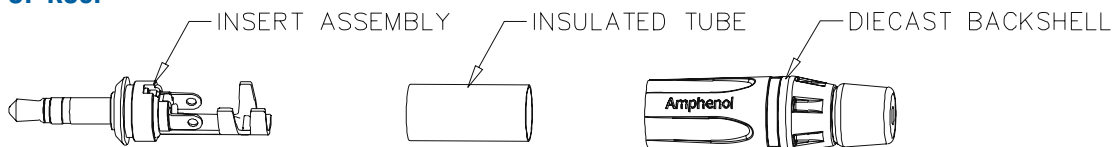
### K-SERIES

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
<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










**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 117**

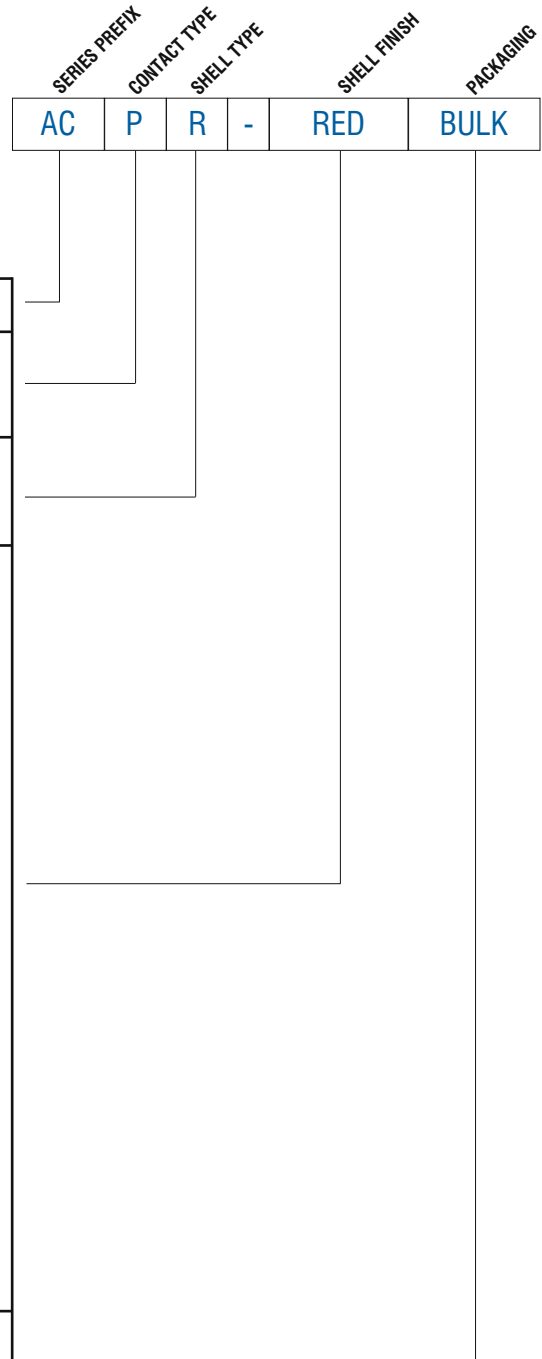
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
			RCA Plug, Diecast Shell, Gold plated contacts, Coloured finish, Flexible coloured grommet.	Red Black Yellow White Blue Green	ACPR-RED ACPR-BLK ACPR-YEL ACPR-WHT ACPR-BLU ACPR-GRN
			RCA Plug, Diecast Shell, Gold plated contacts, Satin finish, Flexible coloured grommet.	Satin / Red Satin / Black Satin / Yellow Satin / White Satin / Blue Satin / Green	ACPR-SRD ACPR-SBK ACPR-SYL ACPR-SWH ACPR-SBL ACPR-SGR
			RCA Jack, Diecast Shell, Gold plated contacts, Coloured finish, Flexible coloured grommet.	Red Black Yellow White Blue Green	ACJR-RED ACJR-BLK ACJR-YEL ACJR-WHT ACJR-BLU ACJR-GRN
			RCA Jack, Diecast Shell, Gold plated contacts, Satin finish, Flexible coloured grommet.	Satin / Red Satin / Black Satin / Yellow Satin / White Satin / Blue Satin / Green	ACJR-SRD ACJR-SBK ACJR-SYL ACJR-SWH ACJR-SBL ACJR-SGR
			RCA Jack, Diecast Shell, Gold plated contacts, Nickel finish shell, coloured insulator.	Red Black Yellow White Blue Green	ACJD-RED ACJD-BLK ACJD-YEL ACJD-WHT ACJD-BLU ACJD-GRN

NOTE: RCA Series comply with RoHS Directive 2002/95/EC

## 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.



<b>SERIES PREFIX</b>	AC	=	Series Prefix
<b>CONTACT TYPE</b>	J	=	RCA Female Jack
	P	=	RCA Male Plug
<b>SHELL TYPE</b>	R	=	M Series Cable Plug
	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
	SBK	=	Satin Nickel, Black Grommet
	SYL	=	Satin Nickel, Yellow Grommet
	SWH	=	Satin Nickel, White Grommet
	SBL	=	Satin Nickel, Blue Grommet
	SGR	=	Satin Nickel, 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





**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**

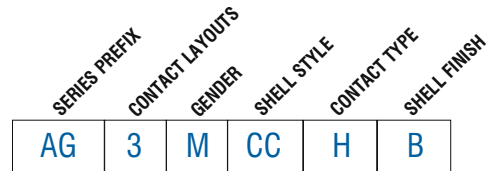
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		Male cable connector, Machined contacts, Nickel Finish	3 pole 4 pole 5 pole 6 pole	AG3M AG4M AG5M AG6M
		Female cable connector, Stamped contacts, Nickel Finish	3 pole 4 pole 5 pole 6 pole	AG3F AG4F AG5F AG6F
		Female cable connector with 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
		Male chassis connector, Horizontal PCB, Machined contacts, Nickel Finish	3 pole 4 pole 5 pole 6 pole	AG3MCCH AG4MCCH AG5MCCH AG6MCCH
		Male chassis connector, Horizontal PCB, Machined contacts, Thermoplastic shell	4 pole	AG4MPCH
		Female chassis connector, Stamped contacts, Nickel Finish	3 pole 4 pole 5 pole 6 pole	AG3FCRV AG4FCRV AG5FCRV AG6FCRV

# Amphenol

## PART NUMBER BREAKDOWN

### G TYPE CONNECTORS

E. G. **AG3MCCHB**  
**AG** (Series Prefix), **3** contacts, **Male**, **C**hassis **C**onconnector, **H**orizontal PCB Contacts,  
**B**lack 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
<b>SHELL STYLE</b>	Blank	=	Cable Connector Standard (Male or Female)
	J	=	Cable Connector Large Cable clamp / boot O.D (Male or Female)
	L	=	Cable Connector with locking ring (Female)
	CC	=	Chassis Connector Circular Metal (Male)
	CR	=	Chassis Connector Rectangular Metal (Female)
	PC	=	Chassis Connector Plastic (Male)
<b>CONTACT TYPE</b>	Blank	=	Solder Buckets (All styles except PC, CR)
	H	=	Horizontal PCB (Style CC, PC only)
	V	=	Vertical PCB (Style CR only)
<b>SHELL FINISH</b>	Blank	=	Nickel Plated Finish
	B	=	Black Finish





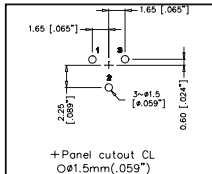
## STANDARD DATA G TYPE

		VALUE			
<b>GENERAL CHARACTERISTICS</b>	Number of contacts	3	4	5	6
	Termination	Printed Circuit Board (PCB) or Solder Bucket			
	Flammability	UL94V-0			
<b>ELECTRICAL CHARACTERISTICS</b>	Service Voltage RMS <sup>1)</sup>	1000V	1000V	1000V	250V
	Test Voltage AC RMS	125V AC			
	Current carrying capacity	5A	5A	4A	1.2A
	Typical Contact Resistance	≤10mΩ			
	Insulation Resistance (initial)	≥510MΩ			
	Insulation Resistance (After damp heat test)	≥10MΩ			
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP00			
	Operating Temperature	-30 °C to +80 °C (-20F - +176F)			
<b>MECHANICAL CHARACTERISTICS</b>	Weight **	13.5g (0.029lb)			
	Insertion Spring Separating Force	≥20N			
	Mechanical Operations	5000 mating cycles	5000 mating cycles	5000 mating cycles	2000 mating cycles
	Cable O.D. range	2mm to 3.5mm (0.078" to 0.137")		3mm to 5mm (0.118" to 0.196")	
<b>MATERIALS</b>	Connector Shell	Bronze & Zinc			
	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				

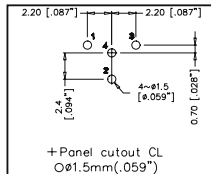
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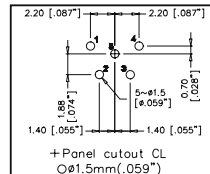
## PANEL CUTOUTS - CONNECTOR SIDE OF PCB



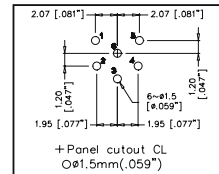
**AG3MCC**



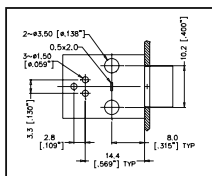
**AG4MCC**



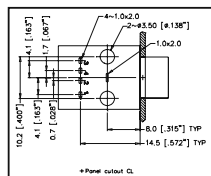
**AG5MCC**



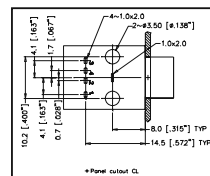
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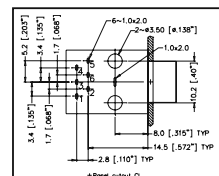
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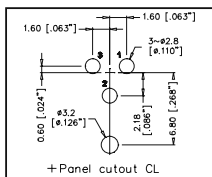
**AG4MCCH**



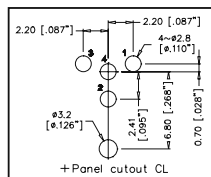
**AG5MCCH**



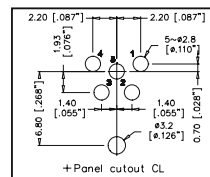
**AG6MCCH**



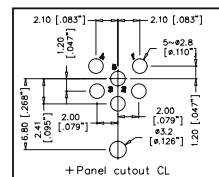
**AG3FCRV**



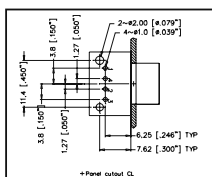
**AG4FCRV**



**AG5FCRV**

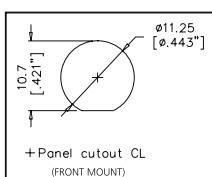


**AG6FCRV**

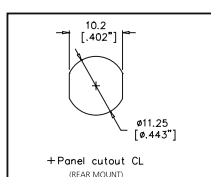


**AG4MPCH**

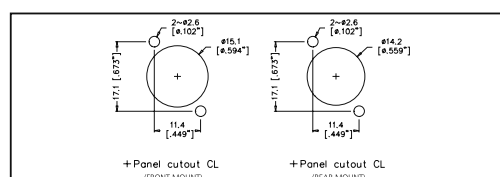
## PANEL CUTOUTS - FRONT VIEW



**AG3MCC  
AG4MCC  
AG5MCC  
AG6MCC**



**AG3MCCH  
AG4MCCH  
AG5MCCH  
AG6MCCH  
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

### 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

### Ordering Codes

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- 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:**


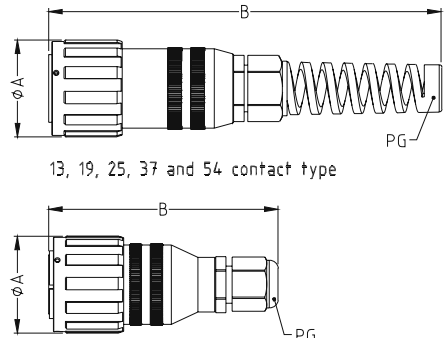

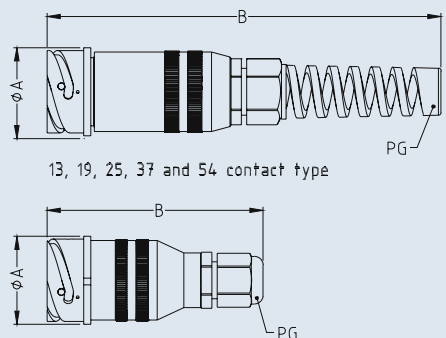
- 13 to 85 pins with Crimp/Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channels
- Gold plated contacts
- Synthetic insert
- Protective dust caps
- Industry standard compatible
- 2000 mating cycles
- Black finish
- Positive bayonet locking
- PG cable glands
- IP67 rated

**Options:** NPT threaded backshells.

**Crimp Tooling:** Page 126


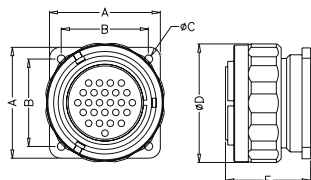

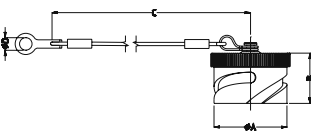
**Specifications:** Page 127


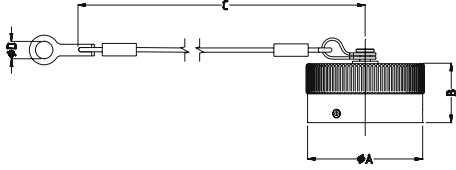

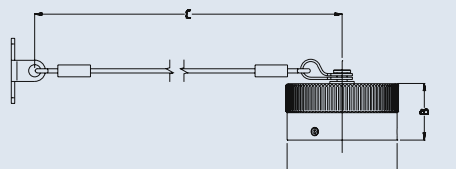
**Part Number Breakdown:** Page 126

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

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



PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches)						PINS	PART NUMBER	PART NUMBER With Dustcap
		A	B	C	D	E	F			
	<p>Panel plug with socket contacts, black finish, supplied complete with contacts.</p> 	38 (1.49)	29.4 (1.15)	3.2 (0.13)	40.5 (1.60)	38.8 (1.53)	N/A	13	MP-4164-13S	MP-4164-13S-C
		41 (1.61)	31.8 (1.25)	3.2 (0.13)	44 (1.73)	38.8 (1.53)	N/A	19	MP-4164-19S	MP-4164-19S-C
		44.5 (1.75)	34.9 (1.37)	3.73 (0.14)	48.51 (1.91)	40.6 (1.60)	N/A	25	MP-4164-25S	MP-4164-25S-C
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	54.3 (2.14)	42 (1.65)	N/A	37	MP-4164-37S	MP-4164-37S-C
		57 (2.24)	44.5 (1.75)	4.39 (0.17)	60.8 (2.40)	45 (1.77)	N/A	54	MP-4164-54S	MP-4164-54S-C
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.3 (2.88)	45 (1.77)	N/A	85	MP-4164-85S	MP-4164-85S-C
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.3 (2.88)	45 (1.77)	N/A	150	MP-4164-150S	MP-4164-150S-C
		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

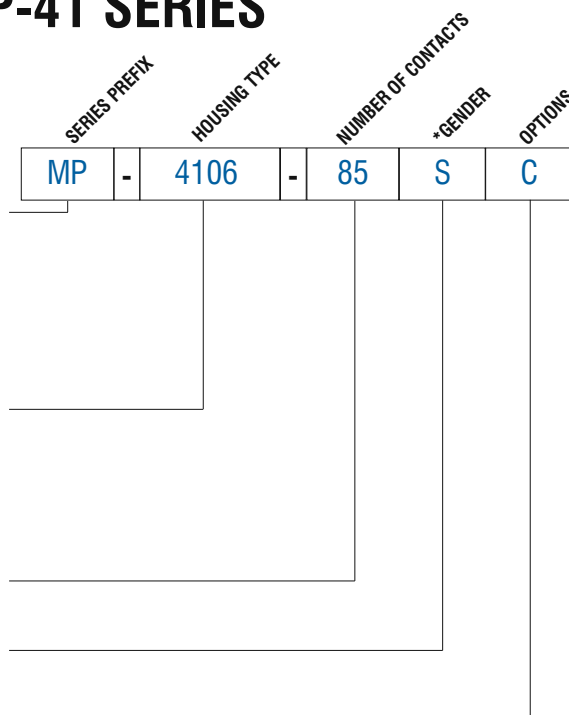
**NOTE:** Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary contacts in MP-41 Series connectors are available in publication PI523 located on our website [www.amphenolaudio.com](http://www.amphenolaudio.com).

## 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 RoHS Directive 2002/95/EC						
<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")	

\*Not suitable for domestic applications above 50V

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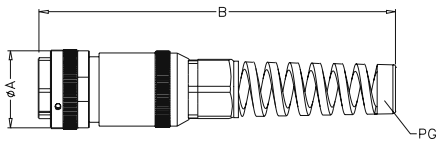

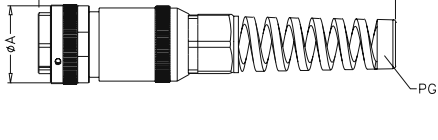

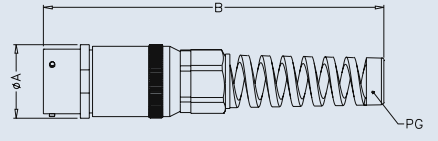

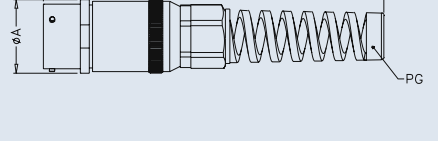

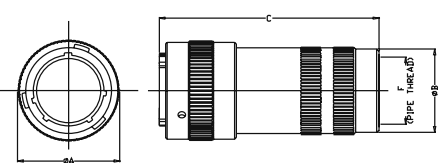

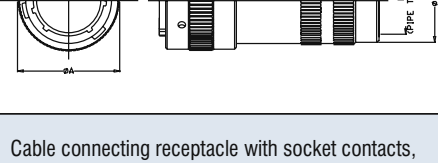

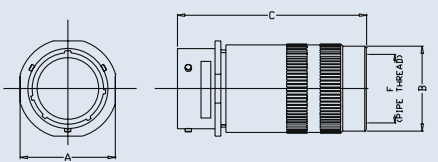
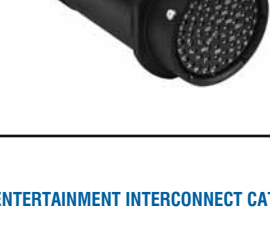
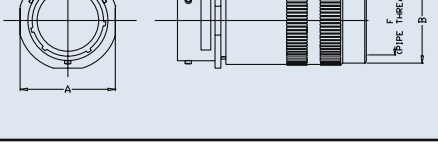


Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles as the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61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

**Features:**

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

**Specifications: Page 130    Wiring Info: Page 133**

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	181.5	16	39	MP-6216-39P	MP-6216-39P-C
		(1.53)	(7.15)				
	Straight cable plug with pin contacts, Black finish, Gold plated solder contacts. 	45.5	193	21	61	MP-6216-61P	MP-6216-61P-C
		(1.80)	(7.60)				
	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts. 	36.7	181.5	16	39	MP-6211-39S	MP-6211-39S-C
		(1.45)	(7.15)				
	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts. 	43.0	193	21	61	MP-6211-61S	MP-6211-61S-C
		(1.70)	(7.60)				
	Straight cable plug with pin contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts. 	38.9	90	NPT	39	MP-6516-39P	MP-6516-39P-C
		(1.53)	(3.54)	3/4"			
	Straight cable plug with pin contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts. 	45.5	100	NPT	61	MP-6516-61P	MP-6516-61P-C
		(1.80)	(3.94)	3/4"			
	Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts. 	36.7	90	NPT	39	MP-6511-39S	MP-6511-39S-C
		(1.45)	(3.54)	3/4"			
	Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts. 	43.0	100	NPT	61	MP-6511-61S	MP-6511-61S-C
		(1.70)	(3.94)	3/4"			

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	Dimensions in mm (inches)						PINS	PART NUMBER	PART NUMBER With Dustcap
		A	B	C	D	E	F			
	<p>Panel plug with pin contacts, Black finish, Gold plated solder contacts.</p>	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)	-			
	<p>Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.</p>	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)	-			
	<p>Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.</p>	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)			
	<p>Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.</p>	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		
	<p>Plug protective dustcap to suit MP-6256</p>		31.7	15.9	127	4.40	39	MP-742-39S
			(1.25)	(0.62)	(4.99)	(0.17)		
	<p>Plug protective dustcap to suit MP-6256</p>		38.05	16.70	127	4.40	61	MP-742-61S
			(1.50)	(0.66)	(4.99)	(0.17)		
	<p>Receptacle protective dustcap to suit MP-6216</p>		36.9	13.13	127	-	39	MP-742-39L
			(1.45)	(0.52)	(4.99)	-		
	<p>Receptacle protective dustcap to suit MP-6216</p>		43.14	14.15	127	-	61	MP-742-61L
			(1.70)	(0.56)	(4.99)	-		
	<p>Plug protective dustcap to suit MP-6212</p>		31.7	15.9	127	4.40	39	MP-738-39S
			(1.25)	(0.62)	(4.99)	(0.17)		
	<p>Plug protective dustcap to suit MP-6212</p>		38.05	16.70	127	4.40	61	MP-738-61S
			(1.50)	(0.66)	(4.99)	(0.17)		
	<p>Receptacle protective dustcap to suit MP-6211</p>		36.9	13.13	127	-	39	MP-738-39L
			(1.45)	(0.52)	(4.99)	-		
	<p>Receptacle protective dustcap to suit MP-6211</p>		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 RoHS Directive 2002/95/EC	
<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")

Rev 1 - 09/2005

\*Not suitable for domestic applications above 50V





## 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.









## ACCESSORIES


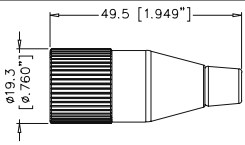

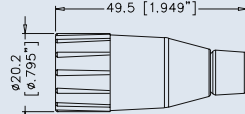
- Colour coded boots(backshells) and rings to assist in cable identification.
- In-line adaptors. Pre-wired for convenience.
- Termination tool for fast assembly of cable connectors.
- Mounting hardware.
- Metal boots(backshells) for rugged environments.

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish Black Finish	AC3M3MW AC3M3MBW
		XLR 3 pole female to 3 pole female adapter, Pre wired, Metal Shell	Nickel Finish Black Finish	AC3F3FW AC3F3FBW
		XLR 3 pole female to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish Black Finish	AC3F3MW AC3F3MBW
		XLR 3 pole female to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F5MW
		XLR 3 pole male to 5 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3M5FW
		XLR 5 pole male to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC5M5MW
		Termination Tool	For IDC and Solder cable connectors	T2860
		Termination Tool	For AC Series Right Angle cable connectors	T2880
		Termination Tool	For AX Series cable connectors	T2890
		A Type / C Type Connector Mounting, Self-Tapping Screw	2.9 x 1.06 Tri-rondular	52500002-734
		B Type Connector Mounting, Self-Tapping Screw	M2.5	52500005-732

ACC.

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		AX Series Coloured Boot	Brown	AX-BOOT-1
			Red	AX-BOOT-2
			Orange	AX-BOOT-3
			Yellow	AX-BOOT-4
			Green	AX-BOOT-5
			Blue	AX-BOOT-6
			Violet	AX-BOOT-7
			Grey	AX-BOOT-8
			White	AX-BOOT-9
			Black	AX-BOOT
Clear	AX-BOOT-CLR			
		AC Coloured Boot / Backshell  <b>Note:</b> 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			
		Description: 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-BLU
			Violet	AC-GROMMET-VIO
			Grey	AC-GROMMET-GRY
White	AC-GROMMET-WHT			
		AC Coloured Identification Rings – Plain and Numbered  <b>Note:</b> 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			

ACC.

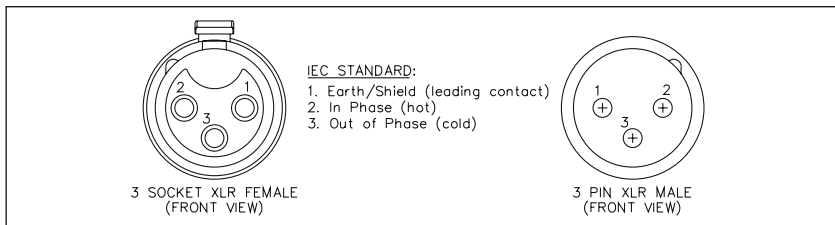
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	<p style="text-align: center;">Dimensions in mm (inches)</p> 	AC Metal Boot / Backshell, Black Finish	Not Applicable	AC-NUT-METAL
		AC Thermoplastic Boot / Backshell. Suitable for use with 8.5mm (0.33") O.D. cable.	Not Applicable	AC-NUT-J-BLK

NOTE: All accessories comply with RoHS Directive 2002/95/EC

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

## CONNECTOR WIRING INFORMATION

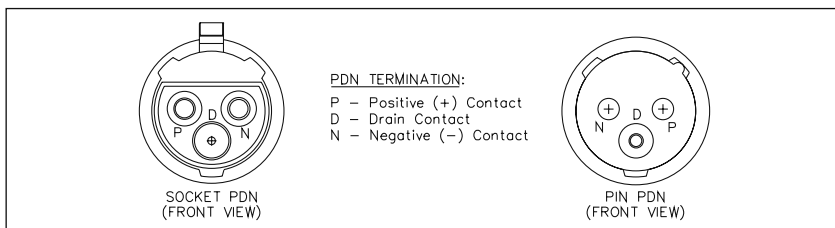
### XLR (Microphone / Patch Cables)



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.

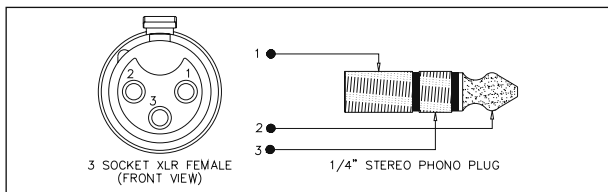
### PDN (Speaker Cables)



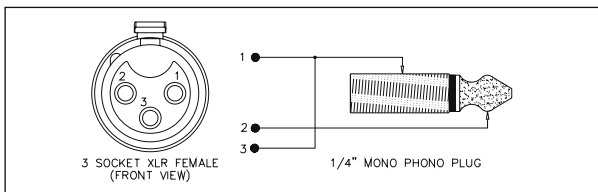
The PDN stands for Positive, Drain and Negative. P pin is used for the Positive (+) line and the N pin is for the return line. D pin is a leading contact that engages at interconnection, before the major contacts. If applicable, solder the cable screen to this contact.

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

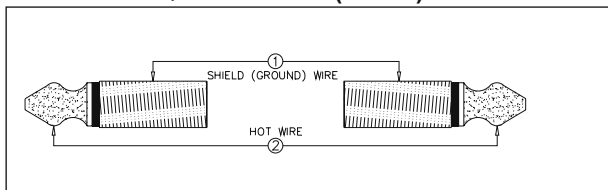
#### MICROPHONE CABLE - BALANCED



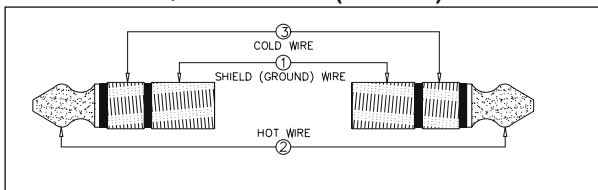
#### MICROPHONE CABLE - UNBALANCED



#### INSTRUMENT / LINE CABLE (MONO)



#### INSTRUMENT / LINE CABLE (STEREO)





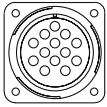
# Amphenol

## CONNECTOR WIRING INFORMATION

### MP Series

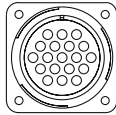
MP-41 Series  
4 Ch – 13 pin

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



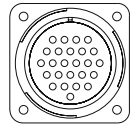
MP-41 Series  
6 Ch – 19 pin

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		



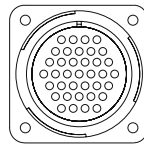
MP-41 Series  
8 Ch – 25 pin

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		



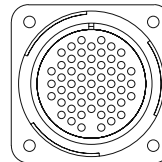
MP-41 Series  
12 Ch – 37 pin

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		



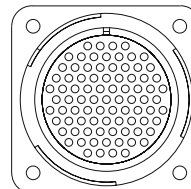
MP-41 Series  
16 Ch – 54 pin

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		

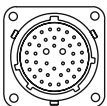


MP-41 Series  
48 Ch - 150 pin

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		

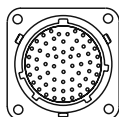
MP-62 Series  
12 Ch – 39 pin

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		



Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
Symbols		AC3FB BULK	10	AC3FDPVL BULK	58	AC3MAV1-AU-B	36	AC3MDZV	23
47-10070	87	AC3FBH1-AU-B	40	AC3FDZ	23	AC3MAV2-AU-B	36	AC3MDZVB	23
47-10090	87	AC3FBH2-AU-B	40	AC3FDZ-AU	23	AC3MAV3-AU-B	36	AC3MI	16
47-10110	87	AC3FBH3-AU-B	40	AC3FDZB	23	AC3MAV4-AU-B	36	AC3MI-AU	16
47-10120	87	AC3FBH-AU-B	40	AC3FDZB-AU	23	AC3MAV-AU-B	36	AC3MIB	16
47-10150	87	AC3FBHB1-AU-B	40	AC3FDZB BULK	23	AC3MB	10	AC3MIB-AU	16
112119	86	AC3FBHB2-AU-B	40	AC3FDZ BULK	23	AC3MB-AU	10	AC3MIB BULK	16
112133	86	AC3FBHB3-AU-B	40	AC3FDZV	23	AC3MB BULK	10	AC3MI BULK	16
112507	86	AC3FBHBL1-AU-B	41	AC3FDZVB	23	AC3MBH1-AU-B	39	AC3MJ	10
112508	86	AC3FBHBL2-AU-B	41	AC3FI	16	AC3MBH2-AU-B	39	AC3MM	10
112509	86	AC3FBHBL3-AU-B	41	AC3FI-AU	16	AC3MBH3-AU-B	39	AC3MM-AU	10
112519	86	AC3FBHBL-AU-B	40	AC3FIB	16	AC3MBH-AU-B	39	AC3MMB	10
112521	86	AC3FBHL1-AU-B	41	AC3FIB-AU	16	AC3MBHB1-AU-B	39	AC3MMB-AU	10
112565	86	AC3FBHL2-AU-B	41	AC3FIB BULK	16	AC3MBHB2-AU-B	39	AC3MMB BULK	10
112606	86	AC3FBHL3-AU-B	41	AC3FI BULK	16	AC3MBHB3-AU-B	39	AC3MMBJ	10
112950	86	AC3FBHL-AU-B	40	AC3FJ	10	AC3MBHB-AU-B	39	AC3MM BULK	10
112951	86	AC3FBV1-AU-B	41	AC3FPP	60	AC3MBHL-AU-B	39	AC3MMCP	14
112952	86	AC3FBV2-AU-B	41	AC3FPP BULK	60	AC3MBHL-AU-B	39	AC3MMCP-AU	14
112953	86	AC3FBV3-AU-B	41	AC3FPPH	60	AC3MBJ	10	AC3MMCP BULK	14
112955	86	AC3FBV-AU-B	41	AC3FPPH BULK	60	AC3M BULK	10	AC3MMCPJ	14
112956	86	AC3FBVBL1-AU-B	41	AC3FPPHL	60	AC3MBV1-AU-B	40	AC3MMDP	58
112957	86	AC3FBVBL2-AU-B	41	AC3FPPHL BULK	60	AC3MBV2-AU-B	40	AC3MMDP BULK	58
112958	86	AC3FBVBL3-AU-B	41	AC3FPPI	62	AC3MBV3-AU-B	40	AC3MMDPL	58
52500002-734	132	AC3FBVBL-AU-B	41	AC3FPPI BULK	62	AC3MBV-AU-B	39	AC3MMDPL BULK	58
52500005-732	132	AC3FBVBL1-AU-B	42	AC3FPPI BULK	62	AC3MBVB1-AU-B	40	AC3MMDZ	23
A		AC3FBVBL2-AU-B	42	AC3FPPI BULK	62	AC3MBVB2-AU-B	40	AC3MMDZ-AU	23
AC3F	10	AC3FBVBL3-AU-B	42	AC3FPPL	60	AC3MBVB3-AU-B	40	AC3MMDZB	23
AC3F3FBW	132	AC3FCP	14	AC3FPPL BULK	60	AC3MBVB-AU-B	39	AC3MMDZB-AU	23
AC3F3FPPI	63	AC3FCP-AU	14	AC3FPPL BULK	60	AC3MCP	14	AC3MMDZB BULK	23
AC3F3FPPI	63	AC3FCP BULK	14	AC3FPPL BULK	60	AC3MCP-AU	14	AC3MMDZ BULK	23
AC3F3FW	132	AC3FCPI	18	AC3FPPL BULK	60	AC3MCP BULK	14	AC3MMDZV	23
AC3F3MBW	132	AC3FCPI-AU	18	AC3FPV	60	AC3MCPI	18	AC3MMDZVB	23
AC3F3MPPI	63	AC3FCPI BULK	18	AC3FPVL	60	AC3MCPI-AU	18	AC3MMJ	10
AC3F3MPPIL	63	AC3FCPJ	14	AC3FPVL BULK	60	AC3MCPI BULK	18	AC3MMP	26
AC3F3MW	132	AC3FDZ	23	AC3FPZ	27	AC3MDP	58	AC3MMP-AU	26
AC3F5MW	132	AC3FDZ BULK	23	AC3FPZ-AU	27	AC3MDP BULK	58	AC3MMPB	26
AC3FAH1-AU-B	36	AC3FDZV	23	AC3FPZB	27	AC3MDP BULK	58	AC3MMPB-AU	26
AC3FAH2-AU-B	37	AC3FDZVB	23	AC3FPZB-AU	27	AC3MDPH	58	AC3MMPB BULK	26
AC3FAH3-AU-B	37	AC3FR	15	AC3FPZB BULK	27	AC3MDPH BULK	58	AC3MMP BULK	26
AC3FAH-AU-B	36	AC3M	10	AC3FPZ BULK	27	AC3MDPHL	58	AC3MMPNZ	26
AC3FAHL1-AU-B	37	AC3M3FPPI	63	AC3FPZV	27	AC3MDPHL BULK	58	AC3MMPNZ-AU	26
AC3FAHL2-AU-B	37	AC3M3FPPI	63	AC3FZ	27	AC3MDPI	62	AC3MMPNZB	26
AC3FAHL3-AU-B	37	AC3M3FPPI	63	AC3FZ-AU	27	AC3MDPI BULK	62	AC3MMPNZB-AU	26
AC3FAHL-AU-B	37	AC3M3FPPI	63	AC3FZB	27	AC3MDPIL	62	AC3MMPNZ BULK	26
AC3F-AU	10	AC3M3FPPI	63	AC3FZB-AU	27	AC3MDPIL BULK	62	AC3MMPNZ BULK	26
AC3FAV1-AU-B	37	AC3M3FPPI	63	AC3FZB BULK	27	AC3MDPL	58	AC3MMPNZV	26
AC3FAV2-AU-B	38	AC3M3FPPI	63	AC3FZ BULK	27	AC3MDPL BULK	58	AC3MMPNZVB	26
AC3FAV3-AU-B	38	AC3M3FPPI	63	AC3FZV	27	AC3MDPV	58	AC3MMPV	26
AC3FAV-AU-B	37	AC3M3FPPI	63	AC3FZVB	27	AC3MDPV BULK	58	AC3MMPVB	26
AC3FAVL1-AU-B	38	AC3M3FPPI	63	AC3FR	15	AC3MDPVL	58	AC3MMR	15
AC3FAVL2-AU-B	38	AC3M3FPPI	63	AC3M	10	AC3MDPVL BULK	58	AC3MP	27
AC3FAVL3-AU-B	38	AC3M3FPPI	63	AC3M3FPPI	63	AC3MDZ	23	AC3MP-AU	27
AC3FAVL-AU-B	38	AC3M3FPPI	63	AC3M3FPPI	63	AC3MDZ-AU	23	AC3MPB	27
AC3FB	10	AC3M3FPPI	63	AC3M3FPPI	63	AC3MDZB	23	AC3MPB-AU	27
AC3FB-AU	10	AC3M3FPPI	63	AC3M3FPPI	63	AC3MDZB-AU	23	AC3MPB BULK	27
		AC3M3FPPI	63	AC3M3FPPI	63	AC3MDZB BULK	23	AC3MP BULK	27
		AC3M3FPPI	63	AC3M3FPPI	63	AC3MDZ BULK	23	AC3MPNZ	26
		AC3M3FPPI	63	AC3M3FPPI	63				

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
AC3MPNZ-AU	26	AC4MDZ-AU	24	AC5MB-AU	11	AC6AMB	12	AC7MDZB BULK	25
AC3MPNZB	26	AC4MDZB	24	AC5MB BULK	11	AC6AMB-AU	12	AC7MDZ BULK	25
AC3MPNZB-AU	26	AC4MDZB-AU	24	AC5MBJ	11	AC6AMB BULK	12	AC7MDZV	25
AC3MPNZB BULK	26	AC4MDZB BULK	24	AC5M BULK	11	AC6AMBJ	12	AC7MDZVB	25
AC3MPNZ BULK	26	AC4MDZV	24	AC5MDZ	24	AC6AM BULK	12	AC7MJ	12
AC3MPNZV	26	AC4MDZVB	24	AC5MDZ-AU	24	AC6AMDZ	25	AC7MP	30
AC3MPNZVB	26	AC4MJ	11	AC5MDZB	24	AC6AMDZ-AU	25	AC7MPB	30
AC3MPP	60	AC4MP	27	AC5MDZB-AU	24	AC6AMDZB	25	AC7MPB BULK	30
AC3MPP BULK	60	AC4MP-AU	27	AC5MDZB BULK	24	AC6AMDZB-AU	25	AC7MP BULK	30
AC3MPPH	60	AC4MPB	27	AC5MDZ BULK	24	AC6AMDZB BULK	25	AC7MPNZ	29
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## PRODUCT SAFETY INFORMATION

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

### 1. Material Content and Physical Form

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

### 2. Fire Characteristics and Electric Shock Hazard

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

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

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

### 3. Handling

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

### 4. Disposal

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

### 5. Application

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

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

### Important General Information

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

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

#### B) Other important information

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

#### C) Assembly instructions

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

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